



FIRE AND SECURITY PRODUCTS

ISSUE 20

www.espuk.com





About ESP*

For more than 20 years ESP* has been developing and supplying security related products to the UK electrical industry. As a leading safety and security product specialist, the company offers a comprehensive range of electronic security and fire detection solutions to meet the requirements of installers and contractors. The range includes CCTV, Access Control, Video Door Entry, a growing collection of conventional and addressable Fire Protection products, Ducer Emergency Lighting, Essentials, and the new addition of Sangamo Time Switches and Heating Controls.

Central Location - England

Based in Worcestershire in the Midlands at our purpose built Head Office and Distribution Centre, we are ideally located to design, develop, manufacture and distribute our ever-expanding product range worldwide.

Delivering New Products

Our New Product Development Team are constantly tracking market trends, approval standards and providing customised products according to unique specification. This ensures we continue to increase our product range to meet the ever-changing needs of our customers.

A Scolmore* Group Company

ESP* has been part of the Scolmore* Group of companies since 2011, and whilst the company operates independently, ESP* benefits from the expertise, knowledge and support of the Scolmore* Group and continues to create strong growth within its product categories.

Scolmore* has been a leading UK manufacturer of electrical accessories and lighting products since 1989 and has earned a reputation worldwide for high quality products, innovative solutions and exemplary customer service.

Key to the continued success of the group is the commitment to developing new products which incorporate the very latest in technological advancements, and provide contractors and installers with cost-efficient, easy to install solutions that help them remain highly competitive.



We now also sell Sangamo Time Switches & Heating Controls



Round Pattern Time Switches

Sangamo have manufactured the renowned RPTS from our Port Glasgow factory since 1951. These 20A switches are famous for their high capacity, quality and reliability.

Choice Programmers & Thermostats

Programmers and thermostats are key components of heating control systems.





DIN & Panel Range

Our DIN and panel range now includes Bluetooth and NFC time switches, DIN rail mountable time switches and panel time switches.



Powersaver Controllers

The primary application for the Powersaver range is to control immersion heaters. Fitting a Sangamo immersion heater controller can reduce costs by up to 50%.





HDVIEW IP™

**5 MEGAPIXEL
IP POE CCTV**



rekor IP™

**2 MEGAPIXEL
IP POE CCTV**

New from ESP...

NightHawk^{LED}

LED SECURITY
LIGHTING RANGE



Essentials

WIRELESS HDMI
SENDER RANGE





Scolmore® Group App

The Scolmore® Group app allows you to use your smart phone to browse our complete range of products, add products to your Favourites or to the Quote Basket and allows you to email the contents of the basket back to yourself.

With Scolmore®, Ovia® lighting, Esp® and Unicrimp® products available you can use the search facility to easily locate the products required.

Our App also has a useful tool kit featuring: Quick Quote Calculator, Zs Values, Cables Selection & Voltage Drop, Adiabatic Equation Calculator, Power Factor Calculator, KVA Converter, Lighting Cost Saving Calculator, Lighting No. Calculator and many more...

Online Ordering | espukonline.com/

The updated site now incorporates a number of improved features that allow users to access new information directly and more easily:

- Ordering 24 hours a day 7 days a week with the ability to check current stock levels as required, meaning you are not restricted to ordering during normal office hours.
- Access to on-line catalogues will keep you fully updated with the complete product range and provide information on new products as and when they become available.
- The order tracking service keeps you up to date with the progress of your shipment.
- Managing your administration paper work is now even easier with instant access to reports and essential documents at a click of a button.
- A 'quick buy tab' and the ability to store the most common orders for repeated use, adds to the versatility and flexibility of the revised system.



E-mail us at info@espuk.com or call our Sales Office on 01527 51 51 50 and one of our Sales Representatives will be more than happy to get you on-line.

ESP® Website | espuk.com

The refreshed new site provides customers with access to detailed product information for the company's extensive range of security products, which includes cctv, access control, fire protection, emergency lighting and essentials.

Stockists can also take advantage of a comprehensive product image library, plus a range of literature covering every product category - all available to download at the click of a button. Visitors can keep informed of the latest new products and company developments via regular updates on the news section.



Marketing Hub |

espuk.com/marketing-hub

A brand new feature of the revamped site is the Marketing Hub area which provides ESP® stockists with a range of tools to enhance their own marketing facilities, with very little effort or cost.

A number of templates featuring some of the most popular products are available to download and these can be customised with the stockist's own details to optimise sales opportunities.



CCTV

2MP IP POE CCTV	16
5MP IP POE CCTV	24
4MP CCTV	38
4MP Wire Free CCTV	52
2MP Wire Free CCTV	53
HD CCTV	62
LED CCTV Monitors	68
CCTV Accessories	72



Access Control

Aperta Single Way Video Door Entry.....	79
Aperta Multi Way Video Door Entry.....	86
Aperta Wifi Door Station	90
Aperta Audio Door Entry Systems.....	90
Access Control Accessories.....	94



Fire Protection

Two Wire Fire Kits	98
Two Wire Fire Panels	100
Addressable Detectors	104
Addressable Fire Panels	108
Addressable Detectors	111
Addressable Accessories	112
Addressable Modules	116
Conventional Fire Alarm Kits	117
Conventional Fire Alarm Panels.....	118
Conventional 24v Fire Alarm Detectors	121
Conventional 12v Fire Alarm Detectors	122
Conventional Fire Accessories	123

Emergency Lighting

Self-Test Emergency Lighting	132
Emergency Twin Spot	134
Maintained Emergency Lighting	136
Circular Bulkheads	138
Emergency Exit Signs	140
Emergency Downlights	142



Essentials

Assistance Alarm Kit	148
GuardCam Deco	152
GuardCam LED	153
NightHawk LED	154
NH150LED	154
CanCamHD	159
VanCam	159
HDMI Senders	160



SANGAMO

Choice Programmers	166
Choice Thermostats	168
Powersaver Controllers	174
Standard RPTS	176
Astro/Suntracker RPTS	182
Bluetooth DIN Rail Time Switches	184
NFC DIN Rail Time Switches	186
DIN Rail Time Switches	188
Panel Time Switches	192





CCTV

The ESP® CCTV range offers the installer a practical range of security and observation solutions reflecting the best features of established and emerging CCTV technology. The range includes cameras from 1080p (2 Megapixel) to 5 Megapixel resolution using the latest in analog and IP technology to deliver superior image quality.



HDVIEW IP

rekor IP

HDview

DigiviewHD⁺

HDview^{HD}

rekor HD

CAMERA SELECTION GUIDE

To select the correct camera consider if the location is internal or external (bear in mind that external cameras are also suitable for internal use). Decide which lens size will achieve the desired image from the guide below.

VIEWING CAPABILITY DISTANCE FROM CAMERA	< 3 METERS >	< 10 METERS >	< 15 METERS >
			
10 meters	9-22mm Lens	2.8-12mm Lens	2.8-12mm Lens
20 meters	5-50mm Lens	9-22mm Lens	4-9mm Lens
30 meters	5-50mm Lens	9-22mm Lens	9-22mm Lens
50 meters	N/A	5-50mm Lens	9-22mm Lens

rekor IP™

2 Megapixel IP POE Cameras and Kits



2MP Cameras



Premium Surveillance
Hard Drive



IP View App for Smart
Devices



Power over Ethernet
Connection

Fixed Lens Cameras



Ingress Protection Rating



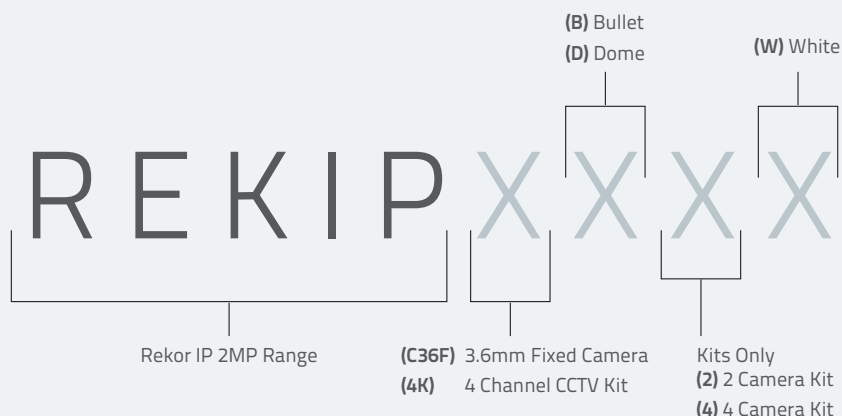
Suitable for use during
Day and Night



Efficient Data Storage



Get kitted out with the code finder



Code	Description
Rekor IP 2MP Cameras & Kits	
REKIPC36FBW	Rekor IP Bullet POE 2MP Camera Fixed 3.6mm
REKIPC36FDW	Rekor IP Dome POE 2MP Camera Fixed 3.6mm
REKIP4KB2W	Rekor IP 4 Channel POE 2MP 2 Bullet Camera Kit (1TB)
REKIP4KB4W	Rekor IP 4 Channel POE 2MP 4 Bullet Camera Kit (1TB)
REKIP4KD2W	Rekor IP 4 Channel POE 2MP 2 Dome Camera Kit (1TB)
REKIP4KD4W	Rekor IP 4 Channel POE 2MP 4 Dome Camera Kit (1TB)



REKIPC36FBW

White 3.6mm Lens 2MP IP Bullet Camera



- HD 2MP Resolution
- 3.6mm Fixed Lens
- 1/2.7" Image Sensor
- 30m Infrared LED Illumination
- 88° Viewing Angle
- H265 Compression
- ONVIF Compliant
- IP66 Housing Ingress Protection

Sensor Size	1/2.7"
Lens	3.6mm
Effective Pixels	2MP (1920 x 1080)
Ingress Protection	IP66
Minimum Illumination	0.05 Lux
Auto Electronic Shutter	1/5 ~ 1/20000s
IR Distance	30 Meters
Compression	H.265 / H.264
Video bit rate	256Kbps ~ 8Mbps
Interface	RJ45 10M / 100M Ethernet
Network Functions	TCP/IP,HTTP,DHCP,DNS,DDNS,RTP/RTSP,PP-PoE,SMTP,NTP,UPnP,SNMP,HTTPS,FTP
Network Monitoring	Web browser, Client Software, Android & IOS
Power	12vDC/POE
Consumption	< 7W
Dimension	Ø71 X138mm
Weight	250g
Storage Temperature	-30°C+60°C
Operating Temperature	-30°C+55°C



REKIPC36FDW

White 3.6mm Lens 2MP IP Dome Camera

Sensor Size	1/2.7"
Lens	3.6mm
Effective Pixels	2MP (1920 x 1080)
Ingress Protection	IP66
Minimum Illumination	0.05 Lux
Auto Electronic Shutter	1/5 ~ 1/20000s
IR Distance	30 Meters
Compression	H.265/H.264
Video bit rate	256Kbps ~ 8Mbps
Interface	RJ45 10M / 100M Ethernet
Network Functions	TCP/IP,HTTP,DHCP,DNS,DDNS,RTP/RTSP,PP-PoE,SMTP,NTP,UPnP,SNMP,HTTPS,FTP
Network Monitoring	Web browser, Client Software, Android & IOS
Power	12vDC/POE
Consumption	< 7W
Dimension	Ø100x82 mm
Weight	260g
Storage Temperature	-30°C+60°C
Operating Temperature	-30°C+55°C

- HD 2MP Resolution
- 3.6mm Fixed Lens
- 1/2.7" Image Sensor
- 30m Infrared LED Illumination
- 88° Viewing Angle
- H265 Compression
- ONVIF Compliant
- IP66 Housing Ingress Protection



REKIP4KB2W

4 Channel CCTV System



- Complete with NVR, IP Cameras, Cable & System Power Supply
- HD 2MP Resolution Viewing and Recording
- 4CH POE NVR- Power Over Ethernet
- 2 x 2MP, Day/ Night, Weatherproof, Bullet Style IP Cameras
- H.265 Video Compression for Efficient Storage
- Pre-Installed 1TB Premium Surveillance Hard Drive
- Remote Monitoring via APP (Android / IOS) or PC

System

Operating System	LINUX
Recording Bandwidth	50Mbps
POE	4CH (<100 Meters per Channel)

Video & Audio

Video Input	4CH
Audio Output	1CH

Display

Output	1 x HDMI, 1 x VGA
Display Split	1/4
Resolution	1024*768, 1280*720, 1280*1024, 1440*900, 1920*1080, 2560*1440, 3840*2160

Recording

Compression	H.265/H.264
Resolution	2 Megapixel
Record Rate (Main Stream)	2 Megapixel
Recording Mode	Manual/Motion Detection/Schedule

- Playback / Record / Remote View Simultaneously
- Continuous / Scheduled / Motion Record Modes
- USB Backup for Evidence Transfer
- Mouse Driven User Menu
- Contents: NVR (HDD inc.), 2 x IP Cameras, 2 x 18.3 Meter Pre-terminated Network Cable, System Power Supply, Manual, Software CD, HDMI Lead, Mouse Control, Remote Control (Battery Inc.)

Playback & Backup

Sync Playback	2 Megapixel
Backup Mode	Network/2 x USB2.0

Network

Ethernet	RJ-45 port (100/1000M)
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP
Network Monitoring	Web browser, Client Software, Android & IOS

Storage

Internal HDD	1TB HDD
--------------	---------

General

NVR Power Consumption	<7W (without hard disk)
NVR Power Source	IEEE802.3af
Operation Condition	0°C – +55°C / 10% – 90%
Dimensions	300X227X53mm

External Power Supply

Power Input	AC 110~240V
Power Output	DC48V / 1.2A – 60W



REKIP4KB4W 4 Channel CCTV System

- Complete with NVR, IP Cameras, Cable & System Power Supply
- HD 2MP Resolution Viewing and Recording
- 4CH POE NVR- Power Over Ethernet
- 4 x 2MP, Day/ Night, Weatherproof, Bullet Style IP Cameras
- H.265 Video Compression for Efficient Storage
- Pre-Installed 1TB Premium Surveillance Hard Drive
- Remote Monitoring via APP (Android / IOS) or PC
- Playback / Record / Remote View Simultaneously
- Continuous / Scheduled / Motion Record Modes
- USB Backup for Evidence Transfer
- Mouse Driven User Menu
- Contents: NVR (HDD inc.), 4 x IP Cameras, 4 x 18.3 Meter Pre-terminated Network Cable, System Power Supply, Manual, Software CD, HDMI Lead, Mouse Control, Remote Control (Battery Inc.)

System

Operating System	LINUX
Recording Bandwidth	50Mbps
POE	4CH (<100 Meters per Channel)

Video & Audio

Video Input	4CH
Audio Output	1CH

Display

Output	1 x HDMI, 1 x VGA
Display Split	1/4
Resolution	1024*768, 1280*720, 1280*1024, 1440*900, 1920*1080, 2560*1440, 3840*2160

Recording

Compression	H.265/H.264
Resolution	2 Megapixel
Record Rate (Main Stream)	2 Megapixel
Recording Mode	Manual/ Motion Detection/Schedule

Playback & Backup

Sync Playback	2 Megapixel
Backup Mode	Network/ 2 x USB2.0

Network

Ethernet	RJ-45 port (100/1000M)
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP
Network Monitoring	Web browser, Client Software, Android & IOS

Storage

Internal HDD	1TB HDD
--------------	---------

General

NVR Power Consumption	<7W (without hard disk)
NVR Power Source	IEEE802.3af
Operation Condition	0°C – +55°C / 10% – 90%
Dimensions	300X227X53mm

External Power Supply

Power Input	AC 110-240V
Power Output	DC48V/1.2A – 60W



REKIP4KD2W

4 Channel CCTV System



- Complete with NVR, IP Cameras, Cable & System Power Supply
- HD 2MP Resolution Viewing and Recording
- 4CH POE NVR- Power Over Ethernet
- 2 x 2MP, Day/ Night, Weatherproof, Dome Style IP Cameras
- H.265 Video Compression for Efficient Storage
- Pre-Installed 1TB Premium Surveillance Hard Drive
- Remote Monitoring via APP (Android / IOS) or PC

- Playback / Record / Remote View Simultaneously
- Continuous / Scheduled / Motion Record Modes
- USB Backup for Evidence Transfer
- Mouse Driven User Menu
- Contents: NVR (HDD inc.), 2 x IP Cameras, 2 x 18.3 Meter Pre-terminated Network Cable, System Power Supply, Manual, Software CD, HDMI Lead, Mouse Control, Remote Control (Battery Inc.)

System

Operating System	LINUX
Recording Bandwidth	50Mbps
POE	4CH (<100 Meters per Channel)

Video & Audio

Video Input	4CH
Audio Output	1CH

Display

Output	1 x HDMI, 1 x VGA
Display Split	1/4
Resolution	1024*768, 1280*720, 1280*1024, 1440*900, 1920*1080, 2560*1440, 3840*2160

Recording

Compression	H.265/H.264
Resolution	2 Megapixel
Record Rate (Main Stream)	2 Megapixel
Recording Mode	Manual/Motion Detection/Schedule

Playback & Backup

Sync Playback	2 Megapixel
Backup Mode	Network/2 x USB2.0

Network

Ethernet	RJ-45 port (100/1000M)
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP
Network Monitoring	Web browser, Client Software, Android & IOS

Storage

Internal HDD	1TB HDD
--------------	---------

General

NVR Power Consumption	<7W (without hard disk)
NVR Power Source	IEEE802.3af
Operation Condition	0°C – +55°C / 10% – 90%
Dimensions	300X227X53mm

External Power Supply

Power Input	AC 110~240V
Power Output	DC48V / 1.2A – 60W



REKIP4KD4W 4 Channel CCTV System

- Complete with NVR, IP Cameras, Cable & System Power Supply
- HD 2MP Resolution Viewing and Recording
- 4CH POE NVR- Power Over Ethernet
- 4 x 2MP, Day/ Night, Weatherproof, Dome Style IP Cameras
- H.265 Video Compression for Efficient Storage
- Pre-Installed 1TB Premium Surveillance Hard Drive
- Remote Monitoring via APP (Android / IOS) or PC
- Playback / Record / Remote View Simultaneously
- Continuous / Scheduled / Motion Record Modes
- USB Backup for Evidence Transfer
- Mouse Driven User Menu
- Contents: NVR (HDD inc.), 4 x IP Cameras, 4 x 18.3 Meter Pre-terminated Network Cable, System Power Supply, Manual, Software CD, HDMI Lead, Mouse Control, Remote Control (Battery Inc.)

System

Operating System	LINUX
Recording Bandwidth	50Mbps
POE	4CH (<100 Meters per Channel)

Video & Audio

Video Input	4CH
Audio Output	1CH

Display

Output	1 x HDMI, 1 x VGA
Display Split	1/4
Resolution	1024*768, 1280*720, 1280*1024, 1440*900, 1920*1080, 2560*1440, 3840*2160

Recording

Compression	H.265/H.264
Resolution	2 Megapixel
Record Rate (Main Stream)	2 Megapixel
Recording Mode	Manual/ Motion Detection/Schedule

Playback & Backup

Sync Playback	2 Megapixel
Backup Mode	Network/ 2 x USB2.0

Network

Ethernet	RJ-45 port (100/1000M)
Network Functions	HTTP, IPV4/IPV6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP
Network Monitoring	Web browser, Client Software, Android & IOS

Storage

Internal HDD	1TB HDD
--------------	---------

General

NVR Power Consumption	<7W (without hard disk)
NVR Power Source	IEEE802.3af
Operation Condition	0°C – +55°C / 10% – 90%
Dimensions	300X227X53mm

External Power Supply

Power Input	AC 110-240V
Power Output	DC48V/1.2A – 60W



5 Megapixel IP POE Cameras and NVRs



5MP Cameras



Premium Surveillance
Hard Drive



IP View App for Smart
Devices



Power over Ethernet
Connection



Pan and Tilt Options



Motorized Lens Cameras

Fixed Lens Cameras



Ingress Protection Rating



Suitable for use during
Day and Night



Efficient Data Storage

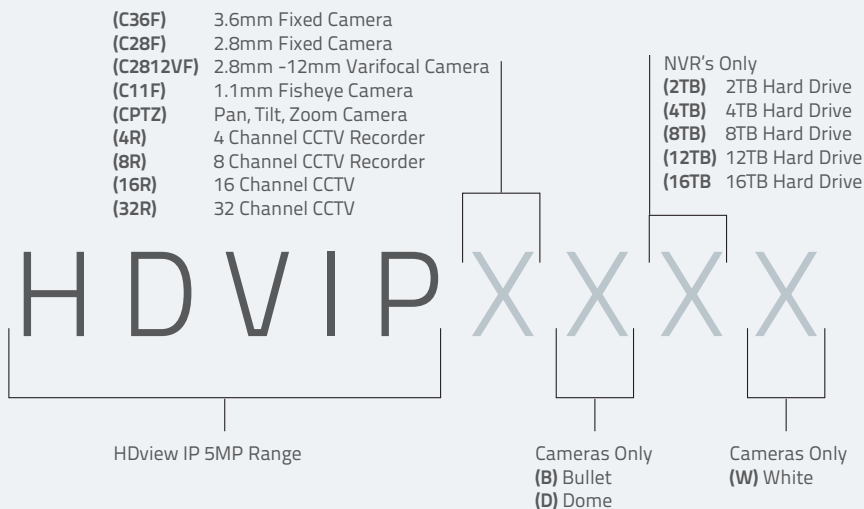


Impact Rating



360° Rotation





Code	Description
HDview IP 5MP Cameras	
HDVIPC36FBW	HDview IP Bullet POE 5MP Camera Fixed 3.6mm
HDVIPC36FDW	HDview IP Dome POE 5MP Camera Fixed 3.6mm
HDVIPC28FDWAV	HDview IP Dome POE 5MP Camera Fixed 2.8mm Vandal
HDVIPC2812VFBW	HDview IP Bullet POE 5MP Camera Varifocal 2.8-12mm
HDVIPC2812VFDW	HDview IP Dome POE 5MP Camera Varifocal 2.8-12mm
HDVIPC2812VFDWAV	HDview IP Dome POE 5MP Camera Varifocal 2.8-12mm Vandal
HDVIPCPTZ	HDview IP PTZ Dome POE 5MP Camera
HDVIPC28FDW	HDview IP Dome POE 5MP Camera Mini 2.8mm Internal
HDVIPC11FDW	HDview IP Fisheye POE 5MP Camera 1.1mm
HDview IP NVR's	
HDVIP4R	HDview IP 4 Channel NVR 5MP (1TB)
HDVIP4R2TB	HDview IP 4 Channel NVR 5MP (2TB)
HDVIP4R4TB	HDview IP 4 Channel NVR 5MP (4TB)
HDVIP4R8TB	HDview IP 4 Channel NVR 5MP (8TB)
HDVIP8R	HDview IP 8 Channel NVR 5MP (1TB)
HDVIP8R2TB	HDview IP 8 Channel NVR 5MP (2TB)
HDVIP8R4TB	HDview IP 8 Channel NVR 5MP (4TB)
HDVIP8R8TB	HDview IP 8 Channel NVR 5MP (8TB)
HDVIP16R	HDview IP 16 Channel NVR 5MP (4TB)
HDVIP16R8TB	HDview IP 16 Channel NVR 5MP (8TB)
HDVIP16R12TB	HDview IP 16 Channel NVR 5MP (12TB)
HDVIP16R16TB	HDview IP 16 Channel NVR 5MP (16TB)
HDVIP32R	HDview IP 32 Channel NVR 5MP (4TB)
HDVIP32R8TB	HDview IP 32 Channel NVR 5MP (8TB)
HDVIP32R12TB	HDview IP 32 Channel NVR 5MP (12TB)
HDVIP32R16TB	HDview IP 32 Channel NVR 5MP (16TB)



HDVIP36FBW

White 3.6mm Lens 5MP IP Bullet Camera



- HD 5MP Resolution
- 3.6mm Fixed Lens
- 1/2.7" Image Sensor
- 30m Infrared LED Illumination
- 88° Viewing Angle
- H265 Compression
- ONVIF Compliant
- IP66 Housing Ingress Protection

Sensor Size	1/2.7"
Lens	3.6mm
Effective Pixels	5MP (2592 X 1944)
Ingress Protection	IP66
Minimum Illumination	0.05 Lux
Auto Electronic Shutter	1/5 ~ 1/20000s
IR Distance	30 Meters
Compression	H.265 / H.264
Video bit rate	256Kbps ~ 8Mbps
Interface	RJ45 10M / 100M Ethernet
Network Functions	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP/RTSP, PP-PoE, SMTP, NTP, UPnP, SNMP, HTTPS, FTP
Network Monitoring	Web browser, Client Software, Android & IOS
Power	12vDC/POE
Consumption	< 7W
Dimension	Ø71 X 138mm
Weight	250g
Storage Temperature	-30°C+60°C
Operating Temperature	-30°C+55°C

**HDVIPC36FDW**

White 3.6mm Lens 5MP IP Dome Camera

Sensor Size	1/2.7"
Lens	3.6mm
Effective Pixels	5MP (2592 X 1944)
Ingress Protection	IP66
Minimum Illumination	0.05 Lux
Auto Electronic Shutter	1/5 ~ 1/20000s
IR Distance	30 Meters
Compression	H.265/H.264
Video bit rate	256Kbps ~ 8Mbps
Interface	RJ45 10M / 100M Ethernet
Network Functions	TCP/IP,HTTP,DHCP,DNS,DDNS,RTP/RTSP,PP-PoE,SMTP,NTP,UPnP,SNMP,HTTPS,FTP
Network Monitoring	Web browser, Client Software, Android & IOS
Power	12vDC / POE
Consumption	< 7W
Dimension	Ø100x82 mm
Weight	260g
Storage Temperature	-30°C+60°C
Operating Temperature	-30°C+55°C

- HD 5MP Resolution
- 3.6mm Fixed Lens
- 1/2.7" Image Sensor
- 30m Infrared LED Illumination
- 88° Viewing Angle
- H265 Compression
- ONVIF Compliant
- IP66 Housing Ingress Protection



HDVIPC2812VFBW

White 2.8-12mm Lens 5MP IP Bullet Camera



- HD 5MP Resolution
- 2.8-12mm Varifocal Lens (Motorized)
- 1/2.7" Image Sensor
- 40m Infrared LED Illumination
- 103° - 51° Viewing Angle
- H.265 Compression
- ONVIF Compliant
- Additional Features: SD storage / Alarm Trigger Input / Audio I/O
- IP66 Housing Ingress Protection

Sensor Size	1/2.7"
Lens	2.8-12mm
Effective Pixels	5MP (2592 X 1944)
Ingress Protection	IP66
Minimum Illumination	0.05 Lux
Auto Electronic Shutter	1/5 ~ 1/20000s
IR Distance	40 Meters
Compression	H.265/H.264
Video bit rate	256Kbps ~ 8Mbps
Interface	RJ45 10M / 100M Ethernet
Network Functions	TCP/IP,HTTP,DHCP,DNS,DDNS,RTSP/RTSP-PP-PoE,SMTP,NTP,UPnP,SNMP,HTTPS,FTP
Network Monitoring	Web browser, Client Software, Android & IOS
Storage	microSD Card (<128G Capacity)
Alarm	I/O
Audio	I/O
Power	12vDC/POE
Consumption	<7W
Dimension	Ø77X240mm
Weight	805g
Storage Temperature	-30°C+60°C
Operating Temperature	-30°C+55°C

**HDVIPC2812VFDW**

White 2.8-12mm Lens 5MP IP Dome Camera

Sensor Size	1/2.7"
Lens	2.8-12mm
Effective Pixels	5MP (2592 X 1944)
Ingress Protection	IP66
Minimum Illumination	0.05 Lux
Auto Electronic Shutter	1/5 ~ 1/20000s
IR Distance	45 Meters
Compression	H.265/H.264
Video bit rate	256Kbps ~ 8Mbps
Interface	RJ45 10M / 100M Ethernet
Network Functions	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP/RTSP, PP-PoE, SMTP, NTP, UPnP, SNMP, HTTPS, FTP
Network Monitoring	Web browser, Client Software, Android & IOS
Storage	microSD Card (<128G Capacity)
Alarm	I/O
Audio	I/O
Power	12vDC/POE
Consumption	<7W
Dimension	Ø126 X 102mm
Weight	720g
Storage Temperature	-30°C+60°C
Operating Temperature	-30°C+55°C

- HD 5MP Resolution
- 2.8-12mm Varifocal Lens (Motorized)
- 1/2.7" Image Sensor
- 45m Infrared LED Illumination
- 103 - 51° Viewing Angle
- H.265 Compression
- ONVIF Compliant
- Additional Features: SD storage / Alarm Trigger Input / Audio I/O
- IP66 Housing Ingress Protection



HDVIPC28FDWAV

White 2.8mm Lens 5MP IP Vandal Resistant Dome Camera



- HD 5MP Resolution
- 2.8 mm Fixed Lens
- 1/2.7" Image Sensor
- 30m Infrared LED Illumination
- 92° Viewing Angle
- H.265 Compression
- ONVIF Compliant
- IP66 Housing Ingress Protection
- IK10 Impact Protection

Sensor Size	1/2.7"
Lens	2.8mm
Effective Pixels	5MP (2592 X 1944)
Ingress Protection	IP66
Impact Rating	IK10
Minimum Illumination	0.05 Lux
Auto Electronic Shutter	1/5 ~ 1/20000s
IR Distance	30 Meters
Compression	H.265/H.264
Video bit rate	256Kbps ~ 8Mbps
Interface	RJ45 10M / 100M Ethernet
Network Functions	TCP/IP,HTTP,DHCP,DNS,DDNS,RTP/RTSP,PP-PoE,SMTP,NTP,UPnP,SNMP,HTTPS,FTP
Network Monitoring	Web browser, Client Software, Android & IOS
Power	12vDC/POE
Consumption	<7W
Dimension	Ø112X95mm
Weight	510g
Storage Temperature	-30°C+60°C
Operating Temperature	-30°C+55°C

**HDVIPC2812VFDWAV**

White 2.8-12mm Lens 5MP IP
Vandal Resistant Dome Camera

Sensor Size	1/2.7"
Lens	2.8-12mm
Effective Pixels	5MP (2592 X 1944)
Ingress Protection	IP66
Impact Rating	IK10
Minimum Illumination	0.05 Lux
Auto Electronic Shutter	1/5 ~ 1/20000s
IR Distance	45 Meters
Compression	H.265/H.264
Video bit rate	256Kbps ~ 8Mbps
Interface	RJ45 10M / 100M Ethernet
Network Functions	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP/RTSP, PP-PoE, SMTP, NTP, UPnP, SNMP, HTTPS, FTP
Network Monitoring	Web browser, Client Software, Android & iOS
Storage	microSD Card (<128G Capacity)
Alarm	I/O
Audio	I/O
Power	12vDC/POE
Consumption	< 7W
Dimension	Ø147X117mm
Weight	1067g
Storage Temperature	-30°C+60°C
Operating Temperature	-30°C+55°C

- HD 5MP Resolution
- 2.8-12mm Varifocal Lens (Motorized)
- 1/2.7" Image Sensor
- 45m Infrared LED Illumination
- 103 - 51° Viewing Angle
- H.265 Compression
- ONVIF Compliant
- Additional Features: SD storage / Alarm Trigger Input & output / Audio I/O / Reset
- IP66 Housing Ingress Protection
- IK10 Impact Protection



HDVIPC28FDW

White 2.8mm Lens 5MP IP Dome Camera



- HD 5MP Resolution
- 2.8mm Fixed Lens
- 1/2.7" Image Sensor
- 10m Infrared LED Illumination
- 92° Viewing Angle
- H265 Compression
- ONVIF Compliant
- Additional Features: SD storage / Microphone
- IP66 Housing Ingress Protection

Sensor Size	1/2.7"
Lens	2.8mm
Effective Pixels	5MP (2592 X 1944)
Ingress Protection	IP66
Minimum Illumination	0.05 Lux
Auto Electronic Shutter	1/5 ~ 1/20000s
IR Distance	10 Meters
Compression	H.265/H.264
Video bit rate	256Kbps ~ 8Mbps
Interface	RJ45 10M / 100M Ethernet
Network Functions	TCP/IP,HTTP,DHCP,DNS,DDNS,RTP/RTSP,PP-PoE,SMTP,NTP,UPnP,SNMP,HTTPS,FTP
Network Monitoring	Web browser, Client Software, Android & IOS
Storage	microSD Card (<128G Capacity)
Audio	Mic.
Power	12vDC/POE
Consumption	<7W
Dimension	Ø120X64mm
Weight	450g
Storage Temperature	-30°C+60°C
Operating Temperature	-30°C+55°C

- HD 5MP Resolution
- 1.1mm Fixed Lens
- 1/2.9" Image Sensor
- 5m Infrared LED Illumination
- 360° Viewing Angle
- H265 Compression
- ONVIF Compliant
- Additional Features: SD Storage / Alarm Trigger Input & Output / Audio I/O / Video Output
- IP64 Housing Ingress Protection
- Suitable for NVR Models HDVIP16R, HDVIP32R Only and PC Viewing

Sensor Size	1/2.9"
Lens	1.1mm
Effective Pixels	5MP (2160 x 2160)
Ingress Protection	IP64
Minimum Illumination	0.1 Lux
Auto Electronic Shutter	1/5 ~ 1/20000s
IR Distance	5 Meters
Compression	H.265/H.264
Video bit rate	8Kbps ~ 8Mbps
Interface	RJ45 10M / 100M Ethernet
Network Functions	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP/RTSP, PP-PoE, SMTP, NTP, UPnP, SNMP, HTTPS, FTP
Network Monitoring	Web browser, Client Software, Android & IOS
Storage	microSD Card (<128G Capacity)
Alarm	I/O
Audio	Mic.
Video Out	CVBS
Power	12VDC / POE
Consumption	< 5W
Dimension	Ø120*55mm
Weight	400g
Storage Temperature	-30°C+60°C
Operating Temperature	-30°C+55°C



HDVIP11FDW

White 1.1mm Lens 5MP IP Dome Camera



- HD 5MP Resolution
- 4.8-86.4mm Varifocal Lens (18x Zoom)
- Full Pan, tilt and zoom operation
- Full 360° rotation pan function
- 1/2.5" Image Sensor
- 60m Infrared LED Illumination
- 61.2~2.32° Viewing Angle
- H.265 Compression
- ONVIF Compliant
- IP66 Housing Ingress Protection

Sensor Size	1/2.5"
Lens	4.8-86.4mm
Effective Pixels	5MP (2592 X 1944)
Ingress Protection	IP66
Minimum Illumination	0.1 Lux
Auto Electronic Shutter	1/2 ~ 1/20000s
IR Distance	60 Meters
Compression	H.265/H.264
Video bit rate	8Kbps ~ 8Mbps
Interface	RJ45 10M / 100M Ethernet
Network Functions	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP/IP, UDP, IGMP, ICMP, DHCP, PPPoE
Network Monitoring	Web browser, Client Software
Power	12VDC / POE
Consumption	< 30W
Dimension	208 X 251mm (Excludes bracket)
Weight	4kg
Storage Temperature	-30°C+60°C
Operating Temperature	-30°C+55°C



HDVIPCPTZ

4.8-86.4mm Lens 5MP IP PTZ Camera





HDVIP4R

4 Channel HD 1TB NVR



- HD 5MP Resolution Viewing and Recording
- 4CH POE NVR- Power Over Ethernet
- H.265 Video Compression for Efficient Storage
- ONVIF Compliant
- Premium Surveillance Hard Drive (1TB, 2TB, 4TB, 8TB Options)
- Remote Monitoring via APP (Android / IOS) or PC

- Playback / Record / Remote View Simultaneously
- Continuous / Scheduled / Motion Record Modes
- HDMI Output (4K)
- USB Backup for Evidence Transfer
- Mouse Driven User Menu
- Contents: NVR, Power Supply, Manual, Software CD, HDMI Lead, Mouse Control, Remote Control (Battery Inc.)

System

Operating System	LINUX
Recording Bandwidth	50Mbps
POE	4CH (<100 Meters per Channel)

Video & Audio

Video Input	4CH
Audio Output	1CH

Display

Output	1 x HDMI, 1 x VGA
Display Split	1/4
Resolution	1024*768, 1280*720, 1280*1024, 1440*900, 1920*1080, 2560*1440, 3840*2160

Recording

Compression	H.265/H.264
Resolution	5 Megapixel
Record Rate (Main Stream)	5 Megapixel
Recording Mode	Manual/Motion Detection/Schedule

Playback & Backup

Sync Playback	5 Megapixel
Backup Mode	Network/2 x USB2.0

Network

Ethernet	RJ-45 port (100/1000M)
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP
Network Monitoring	Web browser, Client Software, Android & IOS

Storage

Internal HDD	<8TB HDD
--------------	----------

General

NVR Power Consumption	<7W (without hard disk)
NVR Power Source	IEEE802.3af
Operation Condition	0°C – +55°C / 10% – 90%
Dimensions	300X227X53mm

External Power Supply

Power Input	AC 110~240V
Power Output	DC48V / 1.2A – 60W



HDVIP8R

8 Channel HD 1TB NVR

- HD 5MP Resolution Viewing and Recording
- 8CH POE NVR- Power Over Ethernet
- H.265 Video Compression for Efficient Storage
- ONVIF Compliant
- Premium Surveillance Hard Drive (1TB, 2TB, 4TB, 8TB Options)
- Remote Monitoring via APP (Android / IOS) or PC

- Playback / Record / Remote View Simultaneously
- Continuous / Scheduled / Motion Record Modes
- HDMI Output (4K)
- USB Backup for Evidence Transfer
- Mouse Driven User Menu
- Contents: NVR, Power Supply, Manual, Software CD, HDMI Lead, Mouse Control, Remote Control (Battery Inc.)

System

Operating System	LINUX
Recording Bandwidth	80Mbps
POE	8CH (<100 Meters per Channel)

Video & Audio

Video Input	8CH
Audio Output	1CH

Display

Output	1 x HDMI, 1 x VGA
Display Split	1/4/6/8/9
Resolution	1024*768, 1280*720, 1280*1024, 1440*900, 1920*1080, 2560*1440, 3840*2160

Recording

Compression	H.265/H.264
Resolution	5 Megapixel
Record Rate (Main Stream)	5 Megapixel
Recording Mode	Manual/ Motion Detection/Schedule

Playback & Backup

Sync Playback	5 Megapixel
Backup Mode	Network/2 x USB2.0

Network

Ethernet	RJ-45 port (100/1000M)
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP
Network Monitoring	Web browser, Client Software, Android & IOS

Storage

Internal HDD	<8TB HDD
--------------	----------

General

NVR Power Consumption	<7W (without hard disk)
NVR Power Source	IEEE802.3af
Operation Condition	0°C ~ +55°C / 10% ~ 90%
Dimensions	300X227X53mm

External Power Supply

Power Input	AC 110-240V
Power Output	DC48V/1.5A - 80W



HDVIP16R

16 Channel HD 4TB NVR



- HD 5MP Resolution Viewing and Recording
- 16CH POE NVR- Power Over Ethernet
- H.265 Video Compression for Efficient Storage
- ONVIF Compliant
- Premium Surveillance Hard Drive (4TB, 8TB, 12TB, 16TB Options)
- Remote Monitoring via APP (Android / IOS) or PC

- Playback / Record / Remote View Simultaneously
- Continuous / Scheduled / Motion Record Modes
- HDMI Output (4K)
- USB Backup for Evidence Transfer
- Mouse Driven User Menu
- Contents: NVR, Power Supply, Manual, Software CD, HDMI Lead, Mouse Control, Remote Control (Battery Inc.)

System

Operating System	LINUX
Recording Bandwidth	320Mbps
POE	16CH (<100 Meters per Channel, Requires 4-Twisted Pair Cable)

Video & Audio

Video Input	16CH
Audio Output	1CH
Line In	1CH

Display

Output	1 x HDMI, 1 x VGA
Display Split	1/4/6/8/9/10/13/14/16
Resolution	1024*768, 1280*720, 1280*1024, 1440*900, 1920*1080, 2560*1440, 3840*2160

Recording

Compression	H.265/H.264
Resolution	5 Megapixel
Record Rate (Main Stream)	5 Megapixel
Recording Mode	Manual/Motion Detection/Schedule

Playback & Backup

Sync Playback	5 Megapixel
Backup Mode	Network / 2 x USB2.0 / 1 x USB3.0 / e-SATA

Network

Ethernet	RJ-45 port (100/1000M)
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP
Network Monitoring	Web browser, Client Software, Android & IOS

Storage

Internal HDD	<16TB HDD
External HDD	e-SATA < 4x6TB

Interface

Alarm In	16CH
Alarm Out	1CH
Data	RS485

General

NVR Power Consumption	<12W (without hard disk)
NVR Power Source	IEEE802.3af
Operation Condition	0°C ~ +55°C / 10% ~ 90%
Dimensions	380X340X50mm

Internal Power Supply

Power Input	AC 110~240V
Power Output	DC12V/8A, 53V DC/4.2A -280W



HDVIP32R

32 Channel HD 4TB NVR

- HD 5MP Resolution Viewing and Recording
- 32CH NVR/ 16CH Video Input with POE - Power Over Ethernet
- H.265 Video Compression for Efficient Storage
- ONVIF Compliant
- Premium Surveillance Hard Drive (4TB, 8TB, 12TB, 16TB Options)
- Remote Monitoring via APP (Android / IOS) or PC
- Playback / Record / Remote View Simultaneously
- Continuous / Scheduled / Motion Record Modes
- HDMI Output (4K)
- USB Backup for Evidence Transfer
- Mouse Driven User Menu
- Contents: NVR, Power Supply, Manual, Software CD, HDMI Lead, Mouse Control, Remote Control (Battery Inc.)

System

Operating System	LINUX
Recording Bandwidth	320Mbps
POE	16CH (<100 Meters per Channel, Requires 4-Twisted Pair Cable)

Video & Audio

Video Input	16CH
Audio Output	1CH
Line In	1CH

Display

Output	1 x HDMI, 1 x VGA
Display Split	1/4/6/8/9/10/13/14/16/17/19/22/25/32/36
Resolution	1024*768, 1280*720, 1280*1024, 1440*900, 1920*1080, 2560*1440, 3840*2160

Recording

Compression	H.265/H.264
Resolution	5 Megapixel
Record Rate (Main Stream)	5 Megapixel
Recording Mode	Manual/Motion Detection/Schedule

Playback & Backup

Sync Playback	5 Megapixel
Backup Mode	Network / 2 x USB2.0 / 1 x USB3.0 / e-SATA

Network

Ethernet	RJ-45 port (100/1000M)
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP
Network Monitoring	Web browser, Client Software, Android & IOS

Storage

Internal HDD	<16TB HDD
External HDD	e-SATA < 4x6TB

Interface

Alarm In	16CH
Alarm Out	1CH
Data	RS485

General

NVR Power Consumption	<12W (without hard disk)
NVR Power Source	IEEE802.3af
Operation Condition	0°C – +55°C / 10% – 90%
Dimensions	380X340X50mm

Internal Power Supply

Power Input	AC 110-240V
Power Output	DC12V/8A, 53V DC/4.2A –280W

HDview

4 Megapixel Cameras, DVRs and Kits



4MP Cameras



Premium Surveillance
Hard Drive



HDview App for Smart
Devices



OSD Menu



Varifocal Lens Cameras

Fixed Lens Cameras



Ingress Protection Rating

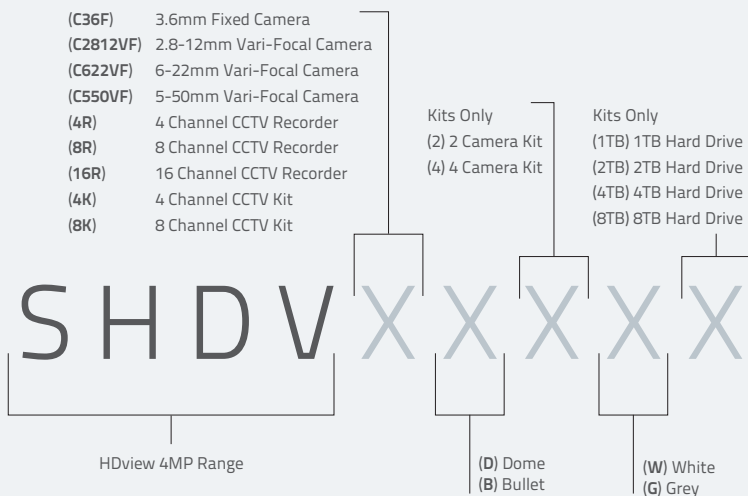


Suitable for use during
Day and Night



360° Rotation





Code (White)	Code (Grey)	Description
SHDVC36FDW	SHDVC36FDG	4MP Super HD Dome CCTV Camera, 3.6mm Fixed Lens
SHDVC2812VFDW	SHDVC2812VFDG	4MP Super HD Dome CCTV Camera, 2.8-12mm Vari-Focal Lens
SHDVC622VFDW	N/A	4MP Super HD Dome CCTV Camera, 6-22mm Vari-Focal Lens
SHDVC36FBW	SHDVC36FBG	4MP Super HD Bullet CCTV Camera, 3.6mm Fixed Lens
SHDVC2812VFBW	SHDVC2812VFBG	4MP Super HD Bullet CCTV Camera, 2.8-12mm Vari-Focal Lens
SHDVC622VFBW	SHDVC622VFBG	4MP Super HD Bullet CCTV Camera, 6-22mm Vari-Focal Lens
SHDVC550VFBW	SHDVC550VFBG	4MP Super HD Bullet CCTV Camera, 5-50mm Vari-Focal Lens
SHDV4R		4MP Super HD 4 Channel CCTV Recorder
SHDV8R		4MP Super HD 8 Channel CCTV Recorder
SHDV16R		4MP Super HD 16 Channel CCTV Recorder
SHDV4KD2W	SHDV4KD2G	4MP Super HD 4 Channel CCTV Dome Kit - 2 Cameras (500GB, 1TB, 2TB, 4TB & 8TB hard drive options)
SHDV4KD4W	SHDV4KD4G	4MP Super HD 4 Channel CCTV Dome Kit - 4 Cameras (500GB, 1TB, 2TB, 4TB & 8TB hard drive options)
SHDV8KD4W	SHDV8KD4G	4MP Super HD 8 Channel CCTV Dome Kit - 4 Cameras (1TB, 2TB, 4TB & 8TB hard drive options)
SHDV4KB2W	SHDV4KB2G	4MP Super HD 4 Channel CCTV Bullet Kit - 2 Cameras (500GB, 1TB, 2TB, 4TB & 8TB hard drive options)
SHDV4KB4W	SHDV4KB4G	4MP Super HD 4 Channel CCTV Bullet Kit - 4 Cameras (500GB, 1TB, 2TB, 4TB & 8TB hard drive options)
SHDV8KB4W	SHDV8KB4G	4MP Super HD 8 Channel CCTV Bullet Kit - 4 Cameras (1TB, 2TB, 4TB & 8TB hard drive options)



SHDVCDBLG Large Grey Camera Deep Base
SHDVCDBLW Large White Camera Deep Base

SHDVC550VFBG Grey 5-50mm Lens 4MP HD Camera
SHDVC550VFBW White 5-50mm Lens 4MP HD Camera



- 5 to 50mm Varifocal Lens
- High Definition 4MP AHD sensor
- Built in 50m Infrared LED Illumination
- Viewing Angle 42.1~ 6.3°
- D-WDR incorporating ATR
- 2D and 3D Noise Reduction
- Exposure Control
- High Light Compensation
- 3-Axis Cable Management Bracket
- IP66 Weatherproof Bullet Housing in Metal

Sensor Size	1/3"
Effective Pixels	NTSC/ PAL:2560(H)x1440(V)
Resolution	4 MP (2688 x 1520)
Minimum Illumination	0.1 Lux
Scanning System	Progressive
Auto Electronic Shutter	NTSC: 1/60s~1/100,000s, PAL: 1/50s~1/100,000s
IR Distance	50 Meters
Video Output	1Vpp, 75 ohms
Auto Gain Control	Auto
Power/Current	DC12V(+/-10%)/720mA
Lens	5-50mm Manual Zoom
Dimension	Ø104 x 276 (L) mm inc. Bracket
Weight	1190g
Storage Temperature	-30 ~ +60°C RH95% Max
Operating Temperature	-10 ~ +50°C RH95% Max



SHDVCDBLG Large Grey Camera Deep Base
SHDVCDBLW Large White Camera Deep Base

SHDVC622VFBG Grey 6-22mm Lens 4MP HD Camera
SHDVC622VFBW White 6-22mm Lens 4MP HD Camera



- 6 to 22mm Varifocal Lens
- High Definition 4MP AHD sensor
- Built in 50m Infrared LED Illumination
- Viewing Angle 37.2~ 14.4°
- D-WDR incorporating ATR
- 2D and 3D Noise Reduction
- Exposure Control
- High Light Compensation
- 3-Axis Cable Management Bracket
- IP66 Weatherproof Bullet Housing in Metal

Sensor Size	1/3"
Effective Pixels	NTSC/ PAL:2560(H)x1440(V)
Resolution	4 MP (2688 x 1520)
Minimum Illumination	0.1 Lux
Scanning System	Progressive
Auto Electronic Shutter	NTSC: 1/60s~1/100,000s, PAL: 1/50s~1/100,000s
IR Distance	50 Meters
Video Output	1Vpp, 75 ohms
Auto Gain Control	Auto
Power/Current	DC12V(+/-10%)/720mA
Lens	6-22mm Manual Zoom
Dimension	Ø104 x 276 (L) mm inc. Bracket
Weight	1190g
Storage Temperature	-30 ~ +60°C RH95% Max
Operating Temperature	-10 ~ +50°C RH95% Max

- 2.8 to 12mm Varifocal Lens
- High Definition 4MP AHD sensor
- Built in 30m Infrared LED Illumination
- Viewing Angle 98~ 34°
- D-WDR incorporating ATR
- 2D and 3D Noise Reduction
- Exposure Control
- High Light Compensation
- 3-Axis Cable Management Bracket
- IP66 Weatherproof Bullet Housing in Metal

Sensor Size	1/3"
Effective Pixels	NTSC/ PAL:2560(H)x1440(V)
Resolution	4 MP (2688 x 1520)
Minimum Illumination	0.1 Lux
Scanning System	Progressive
Auto Electronic Shutter	NTSC: 1/60s~1/100,000s, PAL: 1/50s~1/100,000s
IR Distance	30 Meters
Video Output	1Vpp, 75 ohms
Auto Gain Control	Auto
Power/Current	DC12V(+/-10%)/400mA
Lens	2.8-12mm Manual Zoom
Dimension	Ø75 x 211 (L) mm inc. Bracket
Weight	720g
Storage Temperature	-30 ~ +60 °C RH95% Max
Operating Temperature	-10 ~ +50 °C RH95% Max



SHDVCDBG Grey Camera Deep Base

SHDVCDBW White Camera Deep Base

SHDVC2812VFBG Grey 2.8-12mm Lens 4MP HD Camera

SHDVC2812VFBW White 2.8-12mm Lens 4MP HD Camera



- 3.6mm Fixed Lens
- High Definition 4MP AHD sensor
- Built in 25m Infrared LED Illumination
- Viewing Angle 76°
- D-WDR incorporating ATR
- 2D and 3D Noise Reduction
- Exposure Control
- High Light Compensation
- 3-Axis Cable Management Bracket
- IP66 Weatherproof Bullet Housing in Metal

Sensor Size	1/3"
Effective Pixels	NTSC/ PAL:2560(H)x1440(V)
Resolution	4 MP (2688 x 1520)
Minimum Illumination	0.1 Lux
Scanning System	Progressive
Auto Electronic Shutter	NTSC: 1/60s~1/100,000s, PAL: 1/50s~1/100,000s
IR Distance	25 Meters
Video Output	1Vpp, 75 ohms
Auto Gain Control	Auto
Power/Current	DC12V(+/-10%)/300mA
Lens	3.6mm Fixed Lens
Dimension	Ø68 x 162 (L) mm inc. Bracket
Weight	400g
Storage Temperature	-30 ~ +60 °C RH95% Max
Operating Temperature	-10 ~ +50 °C RH95% Max



SHDVC36FBG Grey Camera Deep Base

SHDVC36FBW White Camera Deep Base

SHDVC36FBG Grey 3.6mm Lens 4MP HD Camera

SHDVC36FBW White 3.6mm Lens 4MP HD Camera





SHDVC622VFDW

White 6-22mm Lens 4MP HD Camera



- Vandal resistant
- 6 to 22mm Varifocal Lens
- High Definition 4MP AHD sensor
- 30m Infrared LED Illumination
- Viewing Angle 40~ 15°
- D-WDR incorporating ATR
- 2D and 3D Noise Reduction
- Exposure Control
- High Light Compensation
- 3-Axis Cable Management Bracket
- IP66 Weatherproof Dome Housing

Sensor Size	1/3"
Effective Pixels	NTSC/ PAL:2560(H)x1440(V)
Resolution	4 MP (2688 x 1520)
Minimum Illumination	0.1 Lux
Scanning System	Progressive
Auto Electronic Shutter	NTSC: 1/60s~1/100,000s, PAL: 1/50s~1/100,000s
IR Distance	30 Meters
Video Output	1Vpp, 75 ohms
Auto Gain Control	Auto
Power/Current	DC12V(+/-10%)/450mA
Lens	6-22mm Manual Zoom
Dimension	Ø 138 x 119 (H) mm inc. Base
Weight	1070g
Storage Temperature	-30 ~ +60°C RH95% Max
Operating Temperature	-10 ~ +50°C RH95% Max



SHDVC2812VFDG Grey 2.8-12mm Lens 4MP HD Camera

SHDVC2812VFDW White 2.8-12mm Lens 4MP HD Camera



- 2.8 to 12mm Varifocal Lens
- High Definition 4MP AHD sensor
- 30m Infrared LED Illumination
- Viewing Angle 98~ 34°
- D-WDR incorporating ATR
- 2D and 3D Noise Reduction
- Exposure Control
- High Light Compensation
- IP66 Weatherproof Dome Housing in Metal

Sensor Size	1/3"
Effective Pixels	NTSC/ PAL:2560(H)x1440(V)
Resolution	4 MP (2688 x 1520)
Minimum Illumination	0.1 Lux
Scanning System	Progressive
Auto Electronic Shutter	NTSC: 1/60s~1/100,000s, PAL: 1/50s~1/100,000s
IR Distance	30 Meters
Video Output	1Vpp, 75 ohms
Auto Gain Control	Auto
Power/Current	DC12V(+/-10%)/360mA
Lens	2.8-12mm Manual Zoom
Dimension	Ø 140 x 105 (H) mm inc. Base
Weight	690g
Storage Temperature	-30 ~ +60°C RH95% Max
Operating Temperature	-10 ~ +50°C RH95% Max

- 3.6mm Fixed Lens
- High Definition 4MP AHD sensor
- Built in 25m Infrared LED Illumination
- Viewing Angle 76°
- D-WDR incorporating ATR
- 2D and 3D Noise Reduction
- Exposure Control
- High Light Compensation
- IP66 Weatherproof Dome Housing in Metal

Sensor Size	1/3"
Effective Pixels	NTSC/ PAL:2560(H)x1440(V)
Resolution	4 MP (2688 x 1520)
Minimum Illumination	0.1 Lux
Scanning System	Progressive
Auto Electronic Shutter	NTSC: 1/60s~1/100,000s, PAL: 1/50s~1/100,000s
IR Distance	25 Meters
Video Output	1Vpp, 75 ohms
Auto Gain Control	Auto
Power/Current	DC12V(+/-10%)/220mA
Lens	3.6mm Fixed Lens
Dimension	Ø114 x 83 (H) mm inc. Base
Weight	350g
Storage Temperature	-30 ~ +60°C RH95% Max
Operating Temperature	-10 ~ +50°C RH95% Max


SHDVCDBW White Camera Deep Base

SHDVC36FDW

White 3.6mm Lens 4MP HD Camera



- 3.6mm Fixed Lens
- High Definition 4MP AHD sensor
- Built in 25m Infrared LED Illumination
- Viewing Angle 76°
- D-WDR incorporating ATR
- 2D and 3D Noise Reduction
- Exposure Control
- High Light Compensation
- IP66 Weatherproof Dome Housing in Metal

Sensor Size	1/3"
Effective Pixels	NTSC/ PAL:2560(H)x1440(V)
Resolution	4 MP (2688 x 1520)
Minimum Illumination	0.1 Lux
Scanning System	Progressive
Auto Electronic Shutter	NTSC: 1/60s~1/100,000s, PAL: 1/50s~1/100,000s
IR Distance	25 Meters
Video Output	1Vpp, 75 ohms
Auto Gain Control	Auto
Power/Current	DC12V(+/-10%)/220mA
Lens	3.6mm Fixed Lens
Dimension	Ø114 x 83 (H) mm inc. Base
Weight	350g
Storage Temperature	-30 ~ +60°C RH95% Max
Operating Temperature	-10 ~ +50°C RH95% Max


SHDVCDBG Grey Camera Deep Base

SHDVC36FDG

Grey 3.6mm Lens 4MP HD Camera





SHDV4R 4 Channel Full HD 500GB DVR SHDV8R 8 Channel Full HD 1TB CCTV DVR



- Hard drive options: SHDV4R - 500GB, 1TB, 2TB, 4TB or 8TB
- 4 Channel System (Supports up to 4 cameras)
- 4 Megapixel live view and recording
- Recording options – Continuous / Scheduled / Motion
- Remote view via ESP® HDview APP for smartphones
- USB back up of recordings for easy evidence transfer
- Video outputs HDMI / VGA for connection to a monitor
- Premium Surveillance Hard Drive pre-installed

System

Main Processor	Embedded Processor
Operating System	Embedded LINUX

Video & Audio

Video Input	SHDV4R - 4 channel BNC SHDV8R - 8 channel BNC
Audio Input	SHDV4R - 4 channel RCA SHDV8R - 4 channel RCA
Audio Output	1 channel RCA

Display

Video Output	1 x HDMI, 1 x VGA, 1 x Auxiliary
Display Split	SHDV4R - 1 and 4 SHDV8R - 1, 4 and 10
Resolution	1024 x768, 1280 x720, 1280x1024, 1440 x900, 1920 x1080, 2560x1440

Recording

Video/Audio Compression	H.264 Mainprofile/G.711A
Resolution	4 Megapixel
Record Rate (Main Stream)	SHDV4R - 4ch 4MP recording SHDV8R - 8ch 4MP recording
Recording Mode	Manual/Motion Detection/Schedule

- Programmable Spot Output
- CMS software included for remote viewing via a pc.
- Remote monitoring via wired connection or Wi-Fi (requires DVRWLA)
- Mouse driven comprehensive user interface
- RS485 control for PTZ cameras
- Silent DVR operation

Playback & Backup

Sync Playback	SHDV4R - 4ch 4MP recording SHDV8R - 8ch 4MP recording
Backup Mode	Network/USB2.0 devices

Network

Ethernet	RJ45 10M/100M
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP
Network Monitoring	Web browsers, CMS, Android & iPhone apps

Storage

Internal HDD	1 SATA HDD, up to 8TB per HDD
--------------	-------------------------------

Auxiliary Interface

USB Interface	2
---------------	---

General

Power Supply	DC12V/2A
Power Consumption	<10W (without hard disk)
Operation Condition	0°C – +55°C / 10% – 90%
Dimensions	250(W)x230(D)x45(H)mm



SHDV16R

16 Channel Full HD 2TB CCTV DVR

- Hard drive options: 2TB, 4TB, 8TB, 12TB & 16TB
- 16 Channel System (Supports up to 16 cameras)
- 4 Megapixel live view and recording
- Recording options – Continuous / Scheduled / Motion
- Remote view via ESP® HDview APP for smartphones
- USB back up of recordings for easy evidence transfer
- Video outputs HDMI / VGA for connection to a monitor
- Premium Surveillance Hard Drive pre-installed

System

Main Processor	Embedded Processor
Operating System	Embedded LINUX

Video & Audio

Video Input	16 channel BNC
Audio Input	4 channel RCA
Audio Output	1 channel RCA

Display

Video Output	1 x HDMI, 1 x VGA, 1 x Auxiliary
Display Split	1, 4, 6, 9, 16 and 20
Resolution	1024×768, 1280×720, 1280×1024, 1440×900, 1920×1080, 2560×1440

Recording

Video/Audio Compression	H.264 Mainprofile/G.711A
Resolution	4 Megapixel
Record Rate (Main Stream)	16ch 4MP recording
Recording Mode	Manual/ Motion Detection/Schedule

- Programmable Spot Output
- CMS software included for remote viewing via a PC
- Remote monitoring via wired connection or Wi-Fi (requires DVRWLA)
- Mouse driven comprehensive user interface
- RS485 control for PTZ cameras
- Programmable alarm inputs & outputs
- Audio inputs & outputs
- Silent DVR operation

Playback & Backup

Sync Playback	16ch 4MP recording
Backup Mode	Network/USB2.0 devices

Network

Ethernet	RJ45 10M/100M
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP
Network Monitoring	Web browsers, CMS, Android & IOS APP

Storage

Internal HDD	2 SATA HDD, up to 8TB per HDD
--------------	-------------------------------

Auxiliary Interface

Alarm Input	4 Channel
Alarm Output	1 Channel
PTZ Control	RS485 with multi-protocol
USB Interface	2

General

Power Supply	DC12V/5A
Power Consumption	<15W (without hard disk)
Operation Condition	-10°C – +55°C / 10% – 90%
Dimensions	326(W) x 243(D) x 52(H) mm



SHDV4KD2G

4 Channel Full HD 500GB CCTV System



- Complete with DVR, Cameras, Cable & System Power Supply
- 2 x 4MP HD day/night dome Cameras - SHDVC36FDG/SHDVC36FDW
- Hard drive options: SHDV4KD - 500GB, 1TB, 2TB, 4TB or 8TB
- 4 Channel System (Supports up to 4 cameras)
- 4 Megapixel live view and recording
- Recording options – Continuous / Scheduled / Motion
- Remote view via ESP® HDview APP for smartphones
- USB back up of recordings for easy evidence transfer

- Video outputs HDMI / VGA for connection to a monitor
- Premium Surveillance Hard Drive pre-installed
- Programmable Spot Output
- CMS software included for remote viewing via a pc
- Remote monitoring via wired connection or Wi-Fi (requires DVRWLA)
- Mouse driven comprehensive user interface
- Silent DVR operation

System

Main Processor	Embedded Processor
Operating System	Embedded LINUX

Video & Audio

Video Input	SHDV4KD - 4 channel BNC SHDV8KD - 8 channel BNC
Audio Input	SHDV4KD - 4 channel RCA SHDV8KD - 4 channel RCA
Audio Output	1 channel RCA

Display

Video Output	1 x HDMI, 1 x VGA, 1 x Auxiliary
Display Split	SHDV4KD - 1 and 4 SHDV8KD - 1, 4 and 10
Resolution	1024 x 768, 1280 x 720, 1280 x 1024, 1440 x 900, 1920 x 1080, 2560 x 1440

Recording

Video/Audio Compression	H.264 Mainprofile/G.711A
Resolution	4 Megapixel
Record Rate (Main Stream)	SHDV4KD - 4ch 4MP recording SHDV8KD - 8ch 4MP recording
Recording Mode	Manual/Motion Detection/Schedule

Playback & Backup

Sync Playback	SHDV4KD - 4ch 4MP recording SHDV8KD - 8ch 4MP recording
Backup Mode	Network/USB2.0 devices

Network

Ethernet	RJ45 10M/100M
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP
Network Monitoring	Web browsers, CMS, Android & iPhone apps

Storage

Internal HDD	1 SATA HDD, up to 8TB per HDD
--------------	-------------------------------

Auxiliary Interface

USB Interface	2
---------------	---

General

Power Supply	DC12V/2A
Power Consumption	<10W (without hard disk)
Operation Condition	0°C – +55°C / 10% – 90%
Dimensions	250(W)x230(D)x45(H)mm



Grey Kits

White Kits

Please add colour to the code. G=Grey, W=White. e.g. SHDV4KD4**W**4TB



4 Channel Full HD 500GB CCTV System **SHDV4KD4G** 8 Channel Full HD 1TB CCTV System **SHDV8KD4G**

- Complete with DVR, Cameras, Cable & System Power Supply
- 4 x 4MP HD day/night dome Cameras - SHDVC36FDG/SHDVC36FDW
- Hard drive options: SHDV4KD - 500GB, 1TB, 2TB, 4TB or 8TB
- 4 Channel System (Supports up to 4 cameras)
- 4 Megapixel live view and recording
- Recording options – Continuous / Scheduled / Motion
- Remote view via ESP® HDview APP for smartphones
- USB back up of recordings for easy evidence transfer
- Video outputs HDMI / VGA for connection to a monitor
- Premium Surveillance Hard Drive pre-installed
- Programmable Spot Output
- CMS software included for remote viewing via a pc
- Remote monitoring via wired connection or Wi-Fi (requires DVRWLA)
- Mouse driven comprehensive user interface
- Silent DVR operation

System

Main Processor	Embedded Processor
Operating System	Embedded LINUX

Video & Audio

Video Input	SHDV4KD - 4 channel BNC SHDV8KD - 8 channel BNC
Audio Input	SHDV4KD - 4 channel RCA SHDV8KD - 4 channel RCA
Audio Output	1 channel RCA

Display

Video Output	1 x HDMI, 1 x VGA, 1 x Auxiliary
Display Split	SHDV4KD - 1 and 4 SHDV8KD - 1, 4 and 10
Resolution	1024 x 768, 1280 x 720, 1280 x 1024, 1440 x 900, 1920 x 1080, 2560 x 1440

Recording

Video/Audio Compression	H.264 Mainprofile/G.711A
Resolution	4 Megapixel
Record Rate (Main Stream)	SHDV4KD - 4ch 4MP recording SHDV8KD - 8ch 4MP recording
Recording Mode	Manual/Motion Detection/Schedule

Playback & Backup

Sync Playback	SHDV4KD - 4ch 4MP recording SHDV8KD - 8ch 4MP recording
Backup Mode	Network/USB2.0 devices

Network

Ethernet	RJ45 10M/100M
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP
Network Monitoring	Web browsers, CMS, Android & iPhone apps

Storage

Internal HDD	1 SATA HDD, up to 8TB per HDD
--------------	-------------------------------

Auxiliary Interface

USB Interface	2
---------------	---

General

Power Supply	DC12V/2A
Power Consumption	<10W (without hard disk)
Operation Condition	0°C – +55°C / 10% – 90%
Dimensions	250(W)x230(D)x45(H)mm



Grey Kits

White Kits

Please add colour to the code. G=Grey, W=White. e.g. SHDV4KB4G1TB

SHDV4KB2G

4 Channel Full HD 500GB CCTV System



- Complete with DVR, Cameras, Cable & System Power Supply
- 2 x 4MP HD day/night bullet Cameras - SHDVC36FBG/SHDVC36FBW
- Hard drive options: SHDV4KB - 500GB, 1TB, 2TB, 4TB or 8TB
- 4 Channel System (Supports up to 4 cameras)
- 4 Megapixel live view and recording
- Recording options – Continuous / Scheduled / Motion
- Remote view via ESP[®] HDview APP for smartphones
- USB back up of recordings for easy evidence transfer
- Video outputs HDMI / VGA for connection to a monitor
- Premium Surveillance Hard Drive pre-installed
- Programmable Spot Output
- CMS software included for remote viewing via a pc
- Remote monitoring via wired connection or Wi-Fi (requires DVRWLA)
- Mouse driven comprehensive user interface
- Silent DVR operation

System

Main Processor	Embedded Processor
Operating System	Embedded LINUX

Video & Audio

Video Input	SHDV4KB - 4 channel BNC SHDV8KB - 8 channel BNC
Audio Input	SHDV4KB - 4 channel RCA SHDV8KB - 4 channel RCA
Audio Output	1 channel RCA

Display

Video Output	1 x HDMI, 1 x VGA, 1 x Auxiliary
Display Split	SHDV4KB - 1 and 4 SHDV8KB - 1, 4 and 10
Resolution	1024 x 768, 1280 x 720, 1280 x 1024, 1440 x 900, 1920 x 1080, 2560 x 1440

Recording

Video/Audio Compression	H.264 Mainprofile/G.711A
Resolution	4 Megapixel
Record Rate (Main Stream)	SHDV4KB - 4ch 4MP recording SHDV8KB - 8ch 4MP recording
Recording Mode	Manual/Motion Detection/Schedule

Playback & Backup

Sync Playback	SHDV4KB - 4ch 4MP recording SHDV8KB - 8ch 4MP recording
Backup Mode	Network/USB2.0 devices

Network

Ethernet	RJ45 10M/100M
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP
Network Monitoring	Web browsers, CMS, Android & iPhone apps

Storage

Internal HDD	1 SATA HDD, up to 8TB per HDD
--------------	-------------------------------

Auxiliary Interface

USB Interface	2
---------------	---

General

Power Supply	DC12V/2A
Power Consumption	<10W (without hard disk)
Operation Condition	0°C – +55°C / 10% – 90%
Dimensions	250(W)x230(D)x45(H)mm



4 Channel Full HD 500GB CCTV System **SHDV4KB4G** 8 Channel Full HD 1TB CCTV System **SHDV8KB4G**

- Complete with DVR, Cameras, Cable & System Power Supply
- 4 x 4MP HD day/night bullet Cameras - SHDVC36FBG/SHDVC36FBW
- Hard drive options: SHDV4KB - 500GB, 1TB, 2TB, 4TB or 8TB
- 4 Channel System (Supports up to 4 cameras)
- 4 Megapixel live view and recording
- Recording options – Continuous / Scheduled / Motion
- Remote view via ESP[®] HDview APP for smartphones
- USB back up of recordings for easy evidence transfer
- Video outputs HDMI / VGA for connection to a monitor
- Premium Surveillance Hard Drive pre-installed
- Programmable Spot Output
- CMS software included for remote viewing via a pc
- Remote monitoring via wired connection or Wi-Fi (requires DVRWLA)
- Mouse driven comprehensive user interface
- Silent DVR operation

System

Main Processor	Embedded Processor
Operating System	Embedded LINUX

Video & Audio

Video Input	SHDV4KB - 4 channel BNC SHDV8KB - 8 channel BNC
Audio Input	SHDV4KB - 4 channel RCA SHDV8KB - 4 channel RCA
Audio Output	1 channel RCA

Display

Video Output	1 x HDMI, 1 x VGA, 1 x Auxiliary
Display Split	SHDV4KB - 1 and 4 SHDV8KB - 1, 4 and 10
Resolution	1024 x 768, 1280 x 720, 1280 x 1024, 1440 x 900, 1920 x 1080, 2560 x 1440

Recording

Video/Audio Compression	H.264 Mainprofile/G.711A
Resolution	4 Megapixel
Record Rate (Main Stream)	SHDV4KB - 4ch 4MP recording SHDV8KB - 8ch 4MP recording
Recording Mode	Manual/Motion Detection/Schedule

Playback & Backup

Sync Playback	SHDV4KB - 4ch 4MP recording SHDV8KB - 8ch 4MP recording
Backup Mode	Network/USB2.0 devices

Network

Ethernet	RJ45 10M/100M
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP
Network Monitoring	Web browsers, CMS, Android & iPhone apps

Storage

Internal HDD	1 SATA HDD, up to 8TB per HDD
--------------	-------------------------------

Auxiliary Interface

USB Interface	2
---------------	---

General

Power Supply	DC12V/2A
Power Consumption	<10W (without hard disk)
Operation Condition	0°C – +55°C / 10% – 90%
Dimensions	250(W)x230(D)x45(H)mm



FHDVC18PTZ

1080P External Pan, Tilt & Zoom Camera



- True High Definition 2MP AHD sensor
- 4.7-84.6mm varifocal lens
- Full pan, tilt and zoom operation
- Full 360° rotation pan function
- 18 x optical zoom
- Up to 50m IR night illumination
- Complete with 2 amp power supply
- IP66 weatherproof rating

Rated Voltage	12V DC
Max Current	1.25A
IR Effective Distance	50M
Protection	IP66
Pan Rotation	360° Endless rotation
Speed	Pan 0.6-200°/s Tilt 3.5-30°/s
Working Conditions	-10°C - +50°C
Dimensions	150(W) x 235(H) x 205(D)mm



PTZCON Pan, Tilt And Zoom Controller

Protocol	Pelco-P, Pelco-D, Panasonic, HikVision, Samsung, RULE, Dahua, SAE
Baud Rate (bps)	1200, 2400, 4800, 9600, 19200
Max Camera Support	255
Controllers Supported	16 in total (15 auxiliary)
Power Supply	DC 12V±10%
Power Consumption	6W MAX
Working Temperature	0°C-50°C
Dimensions	420 x 260 x 170mm
Outputs	BNC, Audio
VESA Wall Hanging	100 x 100mm
Power Supply	AC100-240V-50/60 Hz 1.1A

- For use with PTZ Cameras
- Keyboard for programming and Camera control
- Integrated LCD display
- 3D joystick for control of Camera pan, tilt and zoom functions

HDview^{WF}

2 & 4 Megapixel Wire Free Cameras and Kits



4MP Cameras



2MP Cameras



Premium Surveillance
Hard Drive



HDview WF App for
Smart Devices

Fixed Lens Cameras

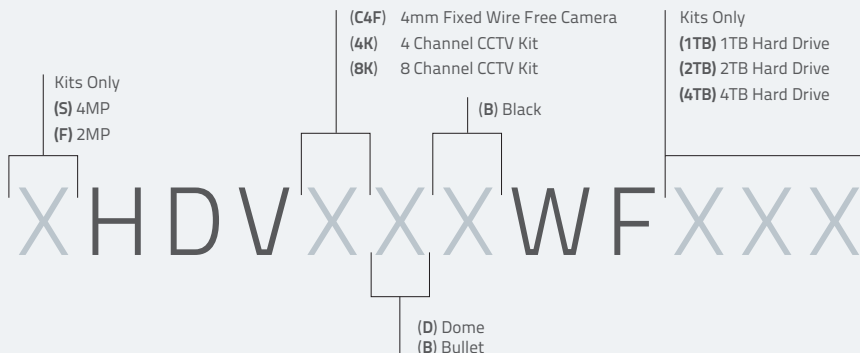


Ingress Protection Rating



Suitable for use during
Day and Night





Code (White)	Code (Black)	Description
--------------	--------------	-------------

4MP Bullet Cameras & Kits

SHDVC4FBWF	SHDVC4FBBWF	WIFI CCTV Bullet Camera - 4MP/1440P
SHDV4KBWF	SHDV4KBBWF	4 Channel 2 Bullet Camera 500GB WIFI CCTV Kit - 4MP/1440P (500GB, 1TB, 2TB & 4TB hard drive options)
SHDV4KB4WF	SHDV4KBB4WF	4 Channel 4 Bullet Camera 500GB WIFI CCTV Kit - 4MP/1440P (500GB, 1TB, 2TB & 4TB hard drive options)

2MP Bullet Cameras & Kits

FHDVC4FBWF	FHDVC4FBBWF	WIFI CCTV Bullet Camera - 2MP/1080P
FHDV4KBWF	FHDV4KBBWF	4 Channel 2 Bullet Camera 500GB WIFI CCTV Kit - 2MP/1080P (500GB, 1TB, 2TB & 4TB hard drive options)
FHDV4KB4WF	FHDV4KBB4WF	4 Channel 4 Bullet Camera 500GB WIFI CCTV Kit - 2MP/1080P (500GB, 1TB, 2TB & 4TB hard drive options)
FHDV8KB4WF	FHDV8KBB4WF	8 Channel 4 Bullet Camera 1TB WIFI CCTV Kit - 2MP/1080P (500GB, 1TB, 2TB & 4TB hard drive options)

2MP Dome Cameras & Kits

FHDVC4FDWF	FHDVC4FDBWF	WIFI CCTV Dome Camera - 2MP/1080P
FHDV4KDWF	FHDV4KDBWF	4 Channel 2 Dome Camera 500GB WIFI CCTV Kit - 2MP/1080P (500GB, 1TB, 2TB & 4TB hard drive options)
FHDV4KD4WF	FHDV4KDB4WF	4 Channel 4 Dome Camera 500GB WIFI CCTV Kit - 2MP/1080P (500GB, 1TB, 2TB & 4TB hard drive options)
FHDV8KD4WF	FHDV8KDB4WF	8 Channel 4 Dome Camera 1TB WIFI CCTV Kit - 2MP/1080P (500GB, 1TB, 2TB & 4TB hard drive options)



SHDVC4FBWF
4mm Lens 4 Megapixel Wire Free HD Camera



- 4mm Fixed Lens
- High definition 4MP sensor
- Built in 20m Infrared LED Illumination
- 3-Axis Cable Management Bracket
- IP66 Weatherproof Bullet Housing
- 12vDC PSU Included

Sensor Size	1/3"
Lens	4mm Fixed Lens
Resolution	4 MP
Minimum Illumination	0.1 Lux/F2.00 0 Lux (with IR LED ON)
IR Distance	< 20 Meters
Power	DC12V 240mA
Weight	575g
Operating Temperature	-10 ~ +50°C
Dimensions (Excluding antenna)	180(W) x 65(H) x 65(D)mm



SHDVC4FBBWF
4mm Lens 4 Megapixel Wire Free HD Camera



- 4mm Fixed Lens
- High definition 4MP sensor
- Built in 20m Infrared LED Illumination
- 3-Axis Cable Management Bracket
- IP66 Weatherproof Bullet Housing
- 12vDC PSU Included

Sensor Size	1/3"
Lens	4mm Fixed Lens
Resolution	4 MP
Minimum Illumination	0.1 Lux/F2.00 0 Lux (with IR LED ON)
IR Distance	< 20 Meters
Power	DC12V 240mA
Weight	575g
Operating Temperature	-10 ~ +50°C
Dimensions (Excluding antenna)	180(W) x 65(H) x 65(D)mm

- 4mm Fixed Lens
- High definition 2MP sensor
- Built in 20m Infrared LED Illumination
- 3-Axis Cable Management Bracket
- IP66 Weatherproof Bullet Housing
- 12vDC PSU Included

Sensor Size	1/2.8"
Lens	4mm Fixed Lens
Resolution	1080p
Minimum Illumination	0.1 Lux/F2.00 0 Lux (with IR LED ON)
IR Distance	< 20 Meters
Power	DC12V 240mA
Weight	575g
Operating Temperature	-10 ~ +50 °C
Dimensions (Excluding antenna)	180(W) x 65(H) x 65(D)mm



FHDVC4FBBWF 4mm Lens 1080P Wire Free HD Camera - Black

FHDVC4FBWF 4mm Lens 1080P Wire Free HD Camera - White



- 4mm Fixed Lens
- High definition 2MP sensor
- Built in 20m Infrared LED Illumination
- IP66 Weatherproof Dome Housing
- 12vDC PSU Included

Sensor Size	1/2.8"
Lens	4mm Fixed Lens
Resolution	1080p
Minimum Illumination	0.1 Lux/F2.00 0 Lux (with IR LED ON)
IR Distance	< 20 Meters
Power	DC12V 240mA
Weight	575g
Operating Temperature	-10 ~ +50 °C



FHDVC4FDBWF 4mm Lens 1080P Wire Free HD Camera - Black

FHDVC4FDWF 4mm Lens 1080P Wire Free HD Camera - White





SHDV4KBWF

4 Channel Full HD 500GB Wire Free CCTV System



- Wire Free 4 Megapixel CCTV kit
- 2 camera kit expandable to 4 cameras
- Offers 150 meter wire free open field range
- 2 x 4MP HD day/night bullet cameras (PSUs Included)
- H265 Compression for efficient recording storage
- Remote Cloud monitoring via LAN connection
- Hard drive options: 500GB, 1TB, 2TB or 4TB
- Mobile monitoring with Android or iPhone ESP* APP

- Triplex operation – Playback / Record / Remote view simultaneously
- VGA or 4K HDMI output (HDMI lead supplied)
- Recording options – Continuous / Scheduled / Motion
- USB back up of recordings for easy evidence transfer
- Mouse driven comprehensive user interface
- Silent fan less operation

System

Main Processor	3520V 200
Operating System	LINUX system
Video	
Video Support	4 IP cameras
Display	
Video Output	1 x HDMI, 1 x VGA
Display Split	1 and 4
Resolution	3840x2160, 1024x768, 1280x720, 1280x1024, 1440x900, 1920x1080
Recording	
Video/Audio Compression	H.265
Resolution	4 MP
Record Rate (Main Stream)	4ch 4 MP recording
Recording Mode	Manual/Motion Detection/Schedule
Playback & Backup	
Sync Playback	4ch 4 MP playback
Backup Mode	Network/USB

Network

Ethernet	RJ45 10M/100M
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP
Network Monitoring	Web browsers, CMS, Android & iPhone apps

Storage

Internal HDD	1 SATA HDD, up to 4TB per HDD
--------------	-------------------------------

Auxiliary Interface

USB Interface	2
---------------	---

General

Weight	1.7kg
Power Supply	DC12V / 2A
Power Consumption	<10W (without hard disk)
Operation Condition	0°C – +55°C
NVR Dimensions (Excluding antenna)	257(W) x 206(D) x 42(H) mm



White Kits

Black Kits

For Black kits please add **B**=Black in to the code. e.g. FHDV4KB**B**4WF2TB



SHDV4KB4WF

4 Channel Full HD 500GB Wire Free CCTV System

- Wire Free 4 Megapixel CCTV kit
- Offers 150 meter wire free open field range
- 4 x 4MP HD day/night bullet cameras (PSUs Included)
- H265 Compression for efficient recording storage
- Remote Cloud monitoring via LAN connection
- Hard drive options: 500GB, 1TB, 2TB or 4TB
- Mobile monitoring with Android or iPhone ESP® APP

- Triplex operation – Playback / Record / Remote view simultaneously
- VGA or 4K HDMI output (HDMI lead supplied)
- Recording options – Continuous / Scheduled / Motion
- USB back up of recordings for easy evidence transfer
- Mouse driven comprehensive user interface
- Silent fan less operation

System

Main Processor	3520V 200
Operating System	LINUX system

Video

Video Support	4 IP cameras
---------------	--------------

Display

Video Output	1 x HDMI, 1 x VGA
Display Split	1 and 4
Resolution	3840x2160, 1024 x768, 1280x720, 1280x1024, 1440x900, 1920x1080

Recording

Video/Audio Compression	H.265
Resolution	4 MP
Record Rate (Main Stream)	4ch 4 MP recording
Recording Mode	Manual/Motion Detection/Schedule

Playback & Backup

Sync Playback	4ch 4 MP playback
Backup Mode	Network/USB

Network

Ethernet	RJ45 10M/100M
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP
Network Monitoring	Web browsers, CMS, Android & iPhone apps

Storage

Internal HDD	1 SATA HDD, up to 4TB per HDD
--------------	-------------------------------

Auxiliary Interface

USB Interface	2
---------------	---

General

Weight	1.7kg
Power Supply	DC12V/2A
Power Consumption	<10W (without hard disk)
Operation Condition	0°C – +55°C
NVR Dimensions (Excluding antenna)	257(W) x 206(D) x 42(H) mm



FHDV4KBWF

4 Channel Full HD 500GB Wire Free CCTV System



- Wire Free 1080p CCTV kit
- 2 camera kit expandable to 4 cameras
- Offers 150 meter wire free open field range
- 2 x 2MP HD day/night bullet cameras (PSUs Included)
- Remote Cloud monitoring via LAN connection
- Hard drive options: 500GB, 1TB, 2TB or 4TB
- Mobile monitoring with Android or iPhone ESP® APP

- Triplex operation – Playback / Record / Remote view simultaneously
- VGA or HDMI output (HDMI lead supplied)
- Recording options – Continuous / Scheduled / Motion
- USB back up of recordings for easy evidence transfer
- Mouse driven comprehensive user interface
- Silent operation

System

Main Processor	3520V 200
Operating System	LINUX system

Video

Video Support	4 IP cameras
---------------	--------------

Display

Video Output	1 x HDMI, 1 x VGA
Display Split	1 and 4
Resolution	1024 x 768, 1280 x 720, 1280 x 1024, 1440 x 900, 1920 x 1080

Recording

Video/Audio Compression	H.264
Resolution	1080P
Record Rate (Main Stream)	4ch 1080P recording
Recording Mode	Manual/ Alarm/Motion Detection/Schedule

Playback & Backup

Sync Playback	4ch 1080P playback
Backup Mode	Network/USB

Network

Ethernet	RJ45 10M/100M
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP
Network Monitoring	Web browsers, CMS, Android & iPhone apps

Storage

Internal HDD	1 SATA HDD, up to 4TB per HDD
--------------	-------------------------------

Auxiliary Interface

USB Interface	2
---------------	---

General

Weight	1.7kg
Power Supply	DC12V / 2A
Power Consumption	<10W (without hard disk)
Operation Condition	0°C – +55°C
NVR Dimensions (Excluding antenna)	257(W) x 206(D) x 42(H) mm



4 Channel Full HD 500GB Wire Free CCTV System **FHDV4KB4WF**
 8 Channel Full HD 1TB Wire Free CCTV System **FHDV8KB4WF**

- Wire Free 1080p CCTV kit
- 4 camera kit
- Offers 150 meter wire free open field range
- 4 x 2MP HD day/night bullet cameras (PSUs Included)
- Remote Cloud monitoring via LAN connection
- Hard drive options: 500GB, 1TB, 2TB or 4TB
- Mobile monitoring with Android or iPhone ESP® APP

- Triplex operation – Playback / Record / Remote view simultaneously
- VGA or HDMI output (HDMI lead supplied)
- Recording options – Continuous / Scheduled / Motion
- USB back up of recordings for easy evidence transfer
- Mouse driven comprehensive user interface
- Silent operation

System

Main Processor	3520V 200
Operating System	LINUX system

Video

Video Support	4 IP cameras
---------------	--------------

Display

Video Output	1 x HDMI, 1 x VGA
Display Split	1 and 4
Resolution	1024 x 768, 1280 x 720, 1280 x 1024, 1440 x 900, 1920 x 1080

Recording

Video/Audio Compression	H.264
Resolution	1080P
Record Rate (Main Stream)	4ch 1080P recording
Recording Mode	Manual/Alarm/Motion Detection/Schedule

Playback & Backup

Sync Playback	4ch 1080P playback
Backup Mode	Network/USB

Network

Ethernet	RJ45 10M/100M
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP
Network Monitoring	Web browsers, CMS, Android & iPhone apps

Storage

Internal HDD	1 SATA HDD, up to 4TB per HDD
--------------	-------------------------------

Auxiliary Interface

USB Interface	2
---------------	---

General

Weight	1.7kg
Power Supply	DC12V/2A
Power Consumption	<10W (without hard disk)
Operation Condition	0°C – +55°C
NVR Dimensions (Excluding antenna)	257(W) x 206(D) x 42(H) mm



FHDV4KDWF

4 Channel Full HD 500GB Wire Free CCTV System



- Wire Free 1080p CCTV kit
- 2 camera kit
- Offers 150 meter wire free open field range
- 2 x 2MP HD day/night dome cameras (PSUs Included)
- Remote Cloud monitoring via LAN connection
- Hard drive options: 500GB, 1TB, 2TB or 4TB
- Mobile monitoring with Android or iPhone ESP® APP

- Triplex operation – Playback / Record / Remote view simultaneously
- VGA or HDMI output (HDMI lead supplied)
- Recording options – Continuous / Scheduled / Motion
- USB back up of recordings for easy evidence transfer
- Mouse driven comprehensive user interface
- Silent operation

System

Main Processor	3520V 200
Operating System	LINUX system

Video

Video Support	4 IP cameras
---------------	--------------

Display

Video Output	1 x HDMI, 1 x VGA
Display Split	1 and 4
Resolution	1024 x 768, 1280 x 720, 1280 x 1024, 1440 x 900, 1920 x 1080

Recording

Video/Audio Compression	H.264
Resolution	1080P
Record Rate (Main Stream)	4ch 1080P recording
Recording Mode	Manual/ Alarm/Motion Detection/Schedule

Playback & Backup

Sync Playback	4ch 1080P playback
Backup Mode	Network/USB

Network

Ethernet	RJ45 10M/100M
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP
Network Monitoring	Web browsers, CMS, Android & iPhone apps

Storage

Internal HDD	1 SATA HDD, up to 4TB per HDD
--------------	-------------------------------

Auxiliary Interface

USB Interface	2
---------------	---

General

Weight	1.7kg
Power Supply	DC12V / 2A
Power Consumption	<10W (without hard disk)
Operation Condition	0°C – +55°C
NVR Dimensions (Excluding antenna)	257(W) x 206(D) x 42(H) mm



4 Channel Full HD 500GB Wire Free CCTV System **FHDV4KD4WF**
8 Channel Full HD 1TB Wire Free CCTV System **FHDV8KD4WF**

- Wire Free 1080p CCTV kit
- 4 camera kit
- Offers 150 meter wire free open field range
- 4 x 2MP HD day/night dome cameras (PSUs Included)
- Remote Cloud monitoring via LAN connection
- Hard drive options: 500GB, 1TB, 2TB or 4TB
- Mobile monitoring with Android or iPhone ESP® APP

- Triplex operation – Playback / Record / Remote view simultaneously
- VGA or HDMI output (HDMI lead supplied)
- Recording options – Continuous / Scheduled / Motion
- USB back up of recordings for easy evidence transfer
- Mouse driven comprehensive user interface
- Silent operation

System

Main Processor	3520V 200
Operating System	LINUX system

Video

Video Support	4 IP cameras
---------------	--------------

Display

Video Output	1 x HDMI, 1 x VGA
Display Split	1 and 4
Resolution	1024 x 768, 1280 x 720, 1280 x 1024, 1440 x 900, 1920 x 1080

Recording

Video/Audio Compression	H.264
Resolution	1080P
Record Rate (Main Stream)	4ch 1080P recording
Recording Mode	Manual/Alarm/Motion Detection/Schedule

Playback & Backup

Sync Playback	4ch 1080P playback
Backup Mode	Network/USB

Network

Ethernet	RJ45 10M/100M
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP
Network Monitoring	Web browsers, CMS, Android & iPhone apps

Storage

Internal HDD	1 SATA HDD, up to 4TB per HDD
--------------	-------------------------------

Auxiliary Interface

USB Interface	2
---------------	---

General

Weight	1.7kg
Power Supply	DC12V/2A
Power Consumption	<10W (without hard disk)
Operation Condition	0°C – +55°C
NVR Dimensions (Excluding antenna)	257(W) x 206(D) x 42(H) mm

rekor HD

2 Megapixel Cameras and Kits



2MP Cameras



Premium Surveillance
Hard Drive



Rekor HD App for
Smart Devices



360° Rotation

Fixed Lens Cameras

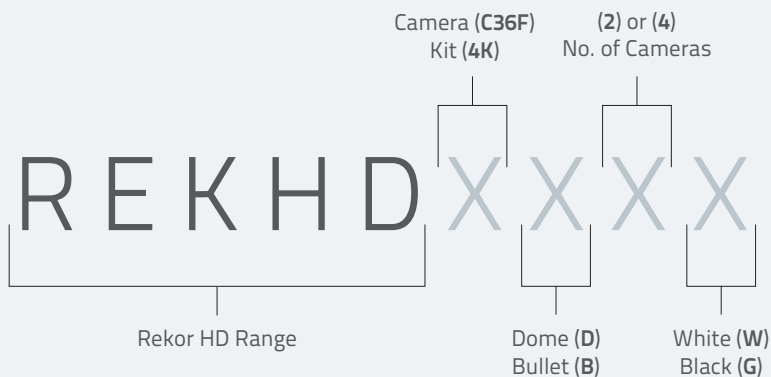


Ingress Protection Rating



Suitable for use during
Day and Night





Code	Description
REKHDC36FBW	3.6mm Lens 1080P Camera
REKHDC36FBG	3.6mm Lens 1080P Camera
REKHDC36FDW	3.6mm Lens 1080P Camera
REKHDC36FDG	3.6mm Lens 1080P Camera
REKHD4KB2W	4 Channel 1080P 500GB CCTV System
REKHD4KB2G	4 Channel 1080P 500GB CCTV System
REKHD4KB4W	4 Channel 1080P 500GB CCTV System
REKHD4KB4G	4 Channel 1080P 500GB CCTV System
REKHD4KD2W	4 Channel 1080P 500GB CCTV System
REKHD4KD2G	4 Channel 1080P 500GB CCTV System
REKHD4KD4W	4 Channel 1080P 500GB CCTV System
REKHD4KD4G	4 Channel 1080P 500GB CCTV System



REKHDC36FBW18P
3.6mm Lens HD Camera



- 3.6mm Fixed Lens
- High Definition 2MP AHD sensor
- Built in 20m Infrared LED Illumination
- 2D Noise Reduction
- Exposure Control
- High Light Compensation
- 3-Axis Cable Management Bracket
- IP66 Weatherproof Bullet Housing

Sensor Size	1/2.7"
Effective Pixels	NTSC/ PAL:1920(H) x 1080(V)
Resolution	1080P
Minimum Illumination	0.1 Lux
Scanning System	Progressive
Auto Electronic Shutter	AUTO/ 1/50~1/60~1/50,000sec
IR Distance	20 Meters
Video Output	1Vpp, 75 ohms
Auto Gain Control	Auto
Power/Current	DC12V(+/-10%)/200mA
Lens	3.6mm Fixed Lens
Dimension	121(W) x 71(H) x 61(D)
Weight	200g
Operating Temperature	-10 ~ +50°C RH95% Max



REKHDC36FBG18P
3.6mm Lens HD Camera



- 3.6mm Fixed Lens
- High Definition 2MP AHD sensor
- Built in 20m Infrared LED Illumination
- 2D Noise Reduction
- Exposure Control
- High Light Compensation
- 3-Axis Cable Management Bracket
- IP66 Weatherproof Bullet Housing

Sensor Size	1/2.7"
Effective Pixels	NTSC/ PAL:1920(H) x 1080(V)
Resolution	1080P
Minimum Illumination	0.1 Lux
Scanning System	Progressive
Auto Electronic Shutter	AUTO/ 1/50~1/60~1/50,000sec
IR Distance	20 Meters
Video Output	1Vpp, 75 ohms
Auto Gain Control	Auto
Power/Current	DC12V(+/-10%)/200mA
Lens	3.6mm Fixed Lens
Dimension	121(W) x 71(H) x 61(D)
Weight	200g
Operating Temperature	-10 ~ +50°C RH95% Max

- 3.6mm Fixed Lens
- High Definition 2MP AHD sensor
- Built in 20m Infrared LED Illumination
- 2D Noise Reduction
- Exposure Control
- High Light Compensation
- IP65 Weatherproof Dome Housing

Sensor Size	1/2.7"
Effective Pixels	NTSC/ PAL:1920(H) x 1080(V)
Resolution	1080P
Minimum Illumination	0.1 Lux
Scanning System	Progressive
Auto Electronic Shutter	AUTO/ 1/50~1/60~1/50,000sec
IR Distance	20 Meters
Video Output	1Vpp, 75 ohms
Auto Gain Control	Auto
Power/Current	DC12V(+/-10%)/200mA
Lens	3.6mm Fixed Lens
Dimension	120(W)x 75(H)
Weight	230g
Operating Temperature	-10 ~ +50 °C RH95% Max



REKHDC36FDW18P
3.6mm Lens HD Camera



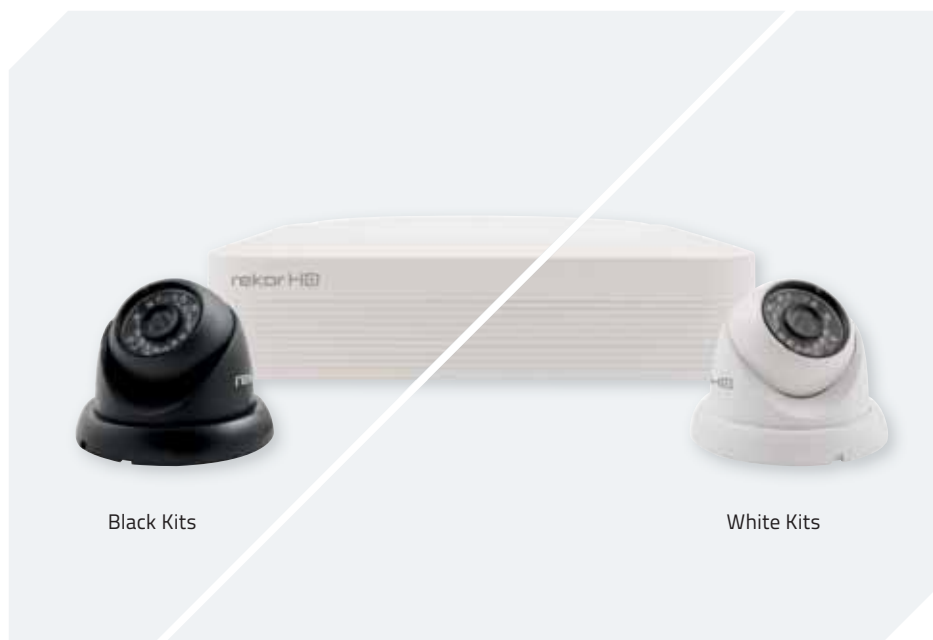
- 3.6mm Fixed Lens
- High Definition 2MP AHD sensor
- Built in 20m Infrared LED Illumination
- 2D Noise Reduction
- Exposure Control
- High Light Compensation
- IP65 Weatherproof Dome Housing

Sensor Size	1/2.7"
Effective Pixels	NTSC/ PAL:1920(H) x 1080(V)
Resolution	1080P
Minimum Illumination	0.1 Lux
Scanning System	Progressive
Auto Electronic Shutter	AUTO/ 1/50~1/60~1/50,000sec
IR Distance	20 Meters
Video Output	1Vpp, 75 ohms
Auto Gain Control	Auto
Power/Current	DC12V(+/-10%)/200mA
Lens	3.6mm Fixed Lens
Dimension	120(W)x 75(H)
Weight	230g
Operating Temperature	-10 ~ +50 °C RH95% Max



REKHDC36FDG18P
3.6mm Lens HD Camera




REKHD4KD2G Black REKHD4KD2W White
4 Channel HD 500GB CCTV System


- Complete with DVR, Cameras, Cable & System Power Supply
- 2 x 2MP HD day/night black dome Cameras - see REKHDC36FDG18P
- 500GB Hard Drive
- Recording options – Continuous / Scheduled / Motion
- USB back up of recordings for easy evidence transfer
- Remote monitoring via wired or Wi-Fi connection - requires DVRWLA ordered separately
- Mobile monitoring with Android or iPhone APP
- Triplex operation – Playback / Record / Remote view simultaneously
- VGA or HDMI output (HDMI lead supplied)
- 2 x 20 meter dual core camera cable
- Mouse driven comprehensive user interface
- Silent operation

System

Operating System	Embedded LINUX
------------------	----------------

Video & Audio

Video Input	4 Channel BNC
Audio Input	1 Channel RCA
Audio Output	1 Channel RCA

Display

Video Output	1 x HDMI, 1 x VGA
Display Split	Single / Quad
Resolution	1280×720, 1280×1024, 1440×900, 1920×1080

Recording

Video/Audio Compression	H.264
Resolution	1080P
Record Rate (Main Stream)	4ch 1080P recording
Recording Mode	Manual/Motion Detection/Schedule

Playback & Backup

Sync Playback	4ch 1080P playback
Backup Mode	Network/USB2.0 devices

Network

Ethernet	RJ45 10M/100M
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP
Network Monitoring	Web browsers, CMS, Android & iPhone apps

Storage

Internal HDD	1 SATA 500GB HDD
--------------	------------------

Auxiliary Interface

USB Interface	2
---------------	---

General

Power Supply	DC12V/5A
Power Consumption	<10W (without hard disk)
Operation Condition	0°C – +55°C / 10% – 90%
Dimensions	196(W) x 196(D) x 48mm(H)



REKHD4KD4G Black REKHD4KD4W White

4 Channel HD 500GB CCTV System

- Complete with DVR, Cameras, Cable & System Power Supply
- 4 x 2MP HD day/night black dome Cameras - see REKHC36FDG18P
- 500GB Hard Drive
- Recording options – Continuous / Scheduled / Motion
- USB back up of recordings for easy evidence transfer
- Remote monitoring via wired or Wi-Fi connection - requires DVRWLA ordered separately

System

Operating System	Embedded LINUX
Video & Audio	
Video Input	4 Channel BNC
Audio Input	1 Channel RCA
Audio Output	1 Channel RCA
Display	
Video Output	1 x HDMI, 1 x VGA
Display Split	Single / Quad
Resolution	1280 x720, 1280 x1024, 1440 x900, 1920 x1080

Recording

Video/Audio Compression	H.264
Resolution	1080P
Record Rate (Main Stream)	4ch 1080P recording
Recording Mode	Manual/Motion Detection/Schedule

- Mobile monitoring with Android or iPhone APP
- Triplex operation – Playback / Record / Remote view simultaneously
- VGA or HDMI output (HDMI lead supplied)
- 4 x 20 meter dual core camera cable
- Mouse driven comprehensive user interface
- Silent operation

Playback & Backup

Sync Playback	4ch 1080P playback
Backup Mode	Network/USB2.0 devices

Network

Ethernet	RJ45 10M/100M
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP
Network Monitoring	Web browsers, CMS, Android & iPhone apps

Storage

Internal HDD	1 SATA 500GB HDD
--------------	------------------

Auxiliary Interface

USB Interface	2
---------------	---

General

Power Supply	DC12V/5A
Power Consumption	<10W (without hard disk)
Operation Condition	0°C – +55°C / 10% – 90%
Dimensions	196(W) x 196(D) x 48mm(H)



REKHD4KB2G Black REKHD4KB2W White

4 Channel HD 500GB CCTV System



- Complete with DVR, Cameras, Cable & System Power Supply
- 2 x 2MP HD day/night black bullet Cameras - see REKHD36FBG18P
- 500GB Hard Drive
- Recording options – Continuous / Scheduled / Motion
- USB back up of recordings for easy evidence transfer
- Remote monitoring via wired or Wi-Fi connection - requires DVRWLA ordered separately
- Mobile monitoring with Android or iPhone APP
- Triplex operation – Playback / Record / Remote view simultaneously
- VGA or HDMI output (HDMI lead supplied)
- 2 x 20 meter dual core camera cable
- Mouse driven comprehensive user interface
- Silent operation

System

Operating System	Embedded LINUX
------------------	----------------

Video & Audio

Video Input	4 Channel BNC
Audio Input	1 Channel RCA
Audio Output	1 Channel RCA

Display

Video Output	1 x HDMI, 1 x VGA
Display Split	Single / Quad
Resolution	1280x720, 1280x1024, 1440x900, 1920x1080

Recording

Video/Audio Compression	H.264
Resolution	1080P
Record Rate (Main Stream)	4ch 1080P recording
Recording Mode	Manual/Motion Detection/Schedule

Playback & Backup

Sync Playback	4ch 1080P playback
Backup Mode	Network/USB2.0 devices

Network

Ethernet	RJ45 10M/100M
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP
Network Monitoring	Web browsers, CMS, Android & iPhone apps

Storage

Internal HDD	1 SATA 500GB HDD
--------------	------------------

Auxiliary Interface

USB Interface	2
---------------	---

General

Power Supply	DC12V/5A
Power Consumption	<10W (without hard disk)
Operation Condition	0°C – +55°C / 10% – 90%
Dimensions	196(W) x 196(D) x 48mm(H)



REKHD4KB4G Black REKHD4KB4W White

4 Channel HD 500GB CCTV System

- Complete with DVR, Cameras, Cable & System Power Supply
- 4 x 2MP HD day/night black bullet Cameras - see REKHDC36FBW18P
- 500GB Hard Drive
- Recording options – Continuous / Scheduled / Motion
- USB back up of recordings for easy evidence transfer
- Remote monitoring via wired or Wi-Fi connection - requires DVRWLA ordered separately

System

Operating System	Embedded LINUX
------------------	----------------

Video & Audio

Video Input	4 Channel BNC
Audio Input	1 Channel RCA
Audio Output	1 Channel RCA

Display

Video Output	1 x HDMI, 1 x VGA
Display Split	Single / Quad
Resolution	1280 x 720, 1280 x 1024, 1440 x 900, 1920 x 1080

Recording

Video/Audio Compression	H.264
Resolution	1080P
Record Rate (Main Stream)	4ch 1080P recording
Recording Mode	Manual/Motion Detection/Schedule

- Mobile monitoring with Android or iPhone APP
- Triplex operation – Playback / Record / Remote view simultaneously
- VGA or HDMI output (HDMI lead supplied)
- 4 x 20 meter dual core camera cable
- Mouse driven comprehensive user interface
- Silent operation

Playback & Backup

Sync Playback	4ch 1080P playback
Backup Mode	Network/USB2.0 devices

Network

Ethernet	RJ45 10M/100M
Network Functions	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP
Network Monitoring	Web browsers, CMS, Android & iPhone apps

Storage

Internal HDD	1 SATA 500GB HDD
--------------	------------------

Auxiliary Interface

USB Interface	2
---------------	---

General

Power Supply	DC12V/5A
Power Consumption	<10W (without hard disk)
Operation Condition	0°C – +55°C / 10% – 90%
Dimensions	196(W) x 196(D) x 48mm(H)



MON18L

18.5" LED CCTV Monitor

- Energy efficient wide screen
- 18.5" LED-Backlit Screen
- VGA, HDMI, BNC input for DVR/NVR connection
- Audio Input
- 2 X 2W Speakers
- Complete with desktop stand
- VESA Standard wall mount option
- Internal Power Supply
- Operating Temperature 0° - 40°
- Operating Humidity 10%-80%
- HDMI & VGA Cable Included

Size	18.5" LED
Aspect Ratio	16:09
Resolution (H x V)	1360 x 768
Colours	16.7M
Viewing Angle	H: 170° V: 160°
Contrast Ratio	10000:1 (DCR)
Response Time	5ms
Speakers	2 each (2 watts)
Inputs	BNC, HDMI, VGA, Audio
VESA Wall Hanging	100 x 100mm
Power Supply	AC100-240V-50/60 Hz 1.1A



MON21L

21.5" LED CCTV Monitor

- Energy efficient wide screen
- 21.5" LED-Backlit Screen
- VGA, HDMI, BNC input for DVR/ NVR connection
- Audio Input
- 2 X 2W Speakers
- Complete with desktop stand
- VESA Standard wall mount option
- Internal Power Supply
- Operating Temperature 0° - 40°
- Operating Humidity 10%-80%
- HDMI & VGA Cable Included

Size	21.5" LED
Aspect Ratio	16:09
Resolution (H x V)	1920 x 1080
Colours	16.7M
Viewing Angle	H: 178° V: 178°
Contrast Ratio	10000:1 (DCR)
Response Time	8ms
Speakers	2 each (2 watts)
Inputs	BNC, HDMI, VGA, Audio
VESA Wall Hanging	75 x 75mm
Power Supply	AC100-240V-50/60 Hz 1.1A

- Energy efficient wide screen
- 23.8" LED-Backlit Screen
- VGA, HDMI, BNC input for DVR/ NVR connection
- Audio Input
- 2 X 2W Speakers
- Complete with desktop stand
- VESA Standard wall mount option
- Internal Power Supply
- Operating Temperature 0° - 40°
- Operating Humidity 10%-80%
- HDMI & VGA Cable Included

Size	23.8" LED
Aspect Ratio	16:09
Resolution (H x V)	1920 x 1080
Colours	16.7M
Viewing Angle	H: 178° V: 178°
Contrast Ratio	10000:1 (DCR)
Response Time	8ms
Speakers	2 each (2 watts)
Inputs	BNC, HDMI, VGA, Audio
VESA Wall Hanging	75 x 75mm
Power Supply	AC100-240V-50/60 Hz 1.1A

**MON23L**

23.8" LED CCTV Monitor

- Energy efficient wide screen 28" LED-Backlit Screen
- HDMI input for DVR/ NVR connection
- AudioOutput
- Complete with desktop stand
- VESA Standard wall mount option
- Operating Temperature 0° - 40°
- Operating Humidity 10%-80%
- HDMI Cable Included

Size	28" LED
Aspect Ratio	16:9
Resolution (H x V)	3840 x 2160
Colours	16.7M
Viewing Angle	H: 170° V: 160°
Contrast Ratio	10000:1.00
Response Time	5ms
Inputs	2 x HDMI
VESA Wall Hanging	100 x 100mm
Power Input	12V 5amp

**MON284K**

28" LED CCTV 4K Monitor



DATA CABLE, PRE-TERMINATED WITH RJ45

- CABIP10 - 10m Data Cable
- CABIP20 - 20m Data Cable
- CABIP40 - 40m Data Cable
- CABIP80 - 80m Data Cable



HDVIP1632RRMB

Rack Mount Bracket For Models: HDVIP16R, HDVIP32R

- Rack Mount Bracket for Models: HDVIP16R, HDVIP32R
- Suitable for Standard 19" Server Rack Mounting



IPCDBW

White Camera Deep Base

- IP66 Rated
- Metal Construction
- G3/4 Cable Gland Supplied
- Suitable for IP Range; REKIPC36FBW, REKIPC36FDW, HDVIP36FBW, HDVIP36FDW, HDVIP2812VFBW, HDVIP2812VFDW, HDVIP28FDWAV, HDVIP28FDW
- Dimensions: 146 x 59 mm



IPCDBWAV

White Camera Deep Base

- IP66 Rated
- Metal Construction
- G3/4 Cable Gland Supplied
- Suitable for IP Range; HDVIP2812VFDWAV
- Dimensions: 146 x 59 mm



IPIN1POE

1 Channel POE Injector

- 1 Channel POE Injector
- 30 Watt
- IEEE802.3 Standards
- 100 Meters Transmission



CABIPCOUP

Data Cable Coupler

- Data Cable Coupler with RJ45 Ports



IPSW4POE

4 Channel POE Switch

- 4 Channel POE Switch
- 60 Watt
- 1 Channel Uplink
- IEEE802.3 Standards
- 100 Meters Transmission Per Port
- Mounting Brackets Supplied



IPSW8POE

8 Channel POE Switch

- 8 Channel POE Switch
- 120 Watt
- 1 Channel Uplink
- IEEE802.3 Standards
- 100 Meters Transmission Per Port
- Mounting Brackets Supplied



CPS4 4 WAY 4 AMP BOXED POWER SUPPLY
CPS9 9 WAY 9 AMP BOXED POWER SUPPLY
CPS16 16 WAY 16 AMP BOXED POWER SUPPLY

- 12VDC power limited output
- Protected outputs
- 100VAC-240VAC (50/60Hz) universal input
- Filtered and electronically regulated output
- Short circuit and thermal overload protection
- AC input and DC output LED indicators
- CPS4 dimensions 182(W) x 260(H) x 66(D)mm
- CPS9 dimensions 322(W) x 322(H) x 86(D)mm
- CPS16 dimensions 322(W) x 322(H) x 86(D)mm



SHDVCDBG Grey Camera Deep Base
SHDVCDBW White Camera Deep Base

- IP66 Rated
- Metal Construction
- 25mm Cable Entry
- Suitable for HDview 4 Megapixel Range;
SHDVC36FBG, SHDVC2812VFBG, SHDVC36FDG
- Dimensions: Ø112.5 x 50(H)mm



**DUAL FUNCTION,
POWER & BNC CABLES**

- CAB-10 - 10m Power and BNC Video Cable
- CAB-20 - 20m Power and BNC Video Cable
- CAB-40 - 40m Power and BNC Video Cable
- CAB-80 - 80m Power and BNC Video Cable



SHDVCDBLG Large Grey Camera Deep Base
SHDVCDBLW Large White Camera Deep Base

- IP66 Rated
- Metal Construction
- 25mm Cable Entry
- Suitable for HDview 4 Megapixel Range;
SHDVC622VFBG, SHDVC550VFBG, SHDVC2812VFDG
- Dimensions: 145(W) x 145(H) x 53(D)mm



PSIL-1 CAMERA POWER SUPPLY

- For use with CCTV Cameras
- 12 volt
- 1 amp



TFT-BRA1 Fixed Monitor Bracket

- Closest to wall fit
- Picture style finish
- To fit screens 12-28" (30-71cm)
- Supports 20kg (44lbs)



CAB-BNC CABLE CONNECTOR

- Connector for use with Power and BNC video cables



TFT-BRA2 Tilt, Pivot & Rotate Monitor Bracket

- 27° tilt 180° swivel
- Close to wall fit
- To fit screens 12-28" (30-71cm)
- Supports 20kg (44lbs)



TMPROSHD CCTV Test Monitor

- Compatible with standard definition, 720P, 1080P & 4 Megapixels CCTV cameras
- Durable design with quality carry case
- 4" LCD Touchscreen
- 12vDC 1A power output for Camera
- Lithium battery rechargeable (7 hrs working time)
- PTZ Camera control and testing



PTZCBRKT PTZ Camera Corner Bracket

- Compatible with external PTZ range
- Improves PTZ viewing coverage
- Metal construction
- White finish



CAM2001 External Dummy Camera

- Medium external dummy Cameras
- Optional red LED
- Dimensions (mm) 245L x 100W x 185H
- Battery housed in junction box



DVRWLA Wireless USB Network Adaptor

- Enables DVR Wi-Fi connection
- Up to 150Mbps wireless transmission
- 4 types of encryption supported
- Compact design



HDBALUNV

Single Channel HD Passive Balun

- AHD camera transmission over CAT5 cable
- Single Channel HD Passive Balun
- Transmitter and Receiver pack
- Compatible with AHD and analogue CCTV cameras



HDBALUNVP

Single Channel HD Video & Power Balun

- AHD camera transmission and power over CAT5 cable
- Single Channel HD Video & Power Balun
- Transmitter and Receiver pack
- Compatible with AHD and analogue CCTV cameras



HDBALUNVPCT

Single Channel HD Video & Power Transmitter Balun

- AHD camera transmission and power over CAT5 cable
- Single Channel HD Video & Power Transmitter Balun
- Compatible with AHD and analogue CCTV Cameras



WARN1

External Warning Sign

- External durable use
- Dimensions 420mm x 300mm
- Space available to add scheme ownership details





ACCESS CONTROL

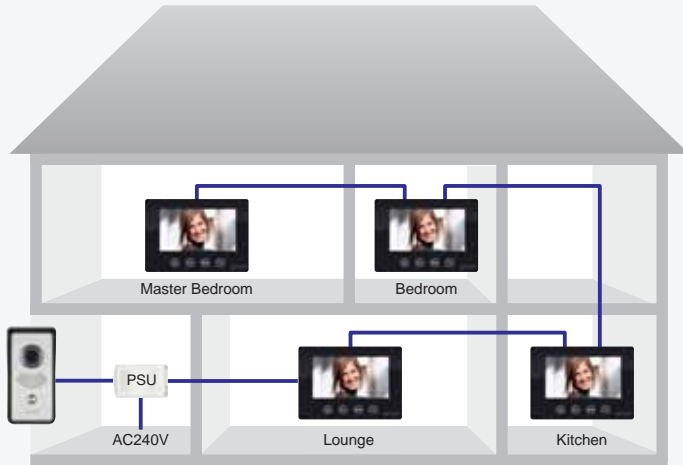
A complete and flexible range of superb quality video door entry equipment. Simple installation and high performance in colour – with the option of call points with integral PIN access – means you need look no further to find the ideal video door entry solution.

aperta 

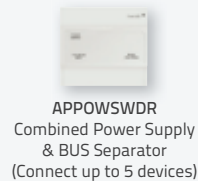


Introducing the next generation of Access Control products from ESP[®].

The new Aperta range not only includes proximity reader systems and accessories such as magnetic door locks but also a completely new simplified and easy to install video door entry systems for both single house and multi way apartment applications.



SINGLE WAY SYSTEM EXAMPLE COMPONENTS



A flexible range of superb quality hands-free colour video door entry products specifically for installation in single dwellings. Simplicity of installation is the key to Aperta single way systems, requiring only 2 wires throughout and all outdoor stations and monitors powered by a single power supply.

The range includes 2 quick and easy to select base kits with options for combined keypad entry or a stylish but simple bell push outdoor station. Alternatively you can build your own system from 2 outdoor station and 4 monitor options. You really need look no further to find the ideal single way video door entry solution.



APKIT C/W White Monitor
APKITBLK C/W Black Monitor
 Colour Video Door Entry System

- Simple 2 core cable installation
- Single power supply (included) supports all monitors and outdoor stations in a flexible combination of up to 5 devices
- Clear high resolution colour picture on 7" hands free TFT monitor

Station

Image sensor	1/3" Colour CCD
Min. Illumination	0.1 LUX
Illumination	6 LEDs
Lens	3.6mm
Power	24VDC
Operating Temp.	-20°C ~ +40°C
Dimensions	85mm(W)x 165mm(H)x 53mm(D)
Weight	390g

Monitor

Power	24VDC
Installation	Surface Mounted
Operational Temp.	0°C ~ +40°C
Consumption	300mA
Dimensions	215mm(W)x152mm(H)x18mm(D)
Weight	450g



APKITKP C/W White Monitor
APKITKPBLK C/W Black Monitor
 Colour Video Door Entry Keypad System

- Simple 2 core cable installation
- Single power supply (included) supports all monitors and outdoor stations in a flexible combination of up to 5 devices
- Clear high resolution colour picture on 7" hands free TFT monitor
- Outdoor station with built in keypad for code door unlocking

Station

Image sensor	1/3" Colour CCD
Min. Illumination	0.1 LUX
Illumination	6 LEDs
Lens	3.6mm
Power	24VDC
Operating Temp.	-20°C ~ +40°C
Dimensions	87mm(W)x 200mm(H)x 53mm(D)
Weight	640g

Monitor

Power	24VDC
Installation	Surface Mounted
Operational Temp.	0°C ~ +40°C
Consumption	300mA
Dimensions	215mm(W)x152mm(H)x18mm(D)
Weight	450g

- Simple 2 core cable installation
- Single power supply (included) supports all monitors and outdoor stations in a flexible combination of up to 5 devices
- Clear high resolution colour picture on 7" hands free TFT monitor

Station

Image sensor	1/3" Colour CCD
Min. Illumination	0.1 LUX
Illumination	6 LEDs
Lens	3.6mm
Power	24VDC
Operating Temp.	-20°C ~ +40°C
Dimensions	85mm(W)x 165mm(H)x 53mm(D)
Weight	390g

Monitor

Power	24VDC
Installation	Surface Mounted
Operational Temp.	0°C ~ +40°C
Consumption	350mA
Dimensions	183mm(W)x185mm(H)x20mm(D)
Weight	550g



C/W White Monitor

APKITG

C/W Black Monitor

APKITGBLK

Colour Video Door Entry System with Record Facility

- Simple 2 core cable installation
- Single power supply (included) supports all monitors and outdoor stations in a flexible combination of up to 5 devices
- Clear high resolution colour picture on 7" hands free TFT monitor
- Outdoor station with built in keypad for code door unlocking

Station

Image sensor	1/3" Colour CCD
Min. Illumination	0.1 LUX
Illumination	6 LEDs
Lens	3.6mm
Power	24VDC
Operating Temp.	-20°C ~ +40°C
Dimensions	87mm(W)x 200mm(H)x 53mm(D)
Weight	640g

Monitor

Power	24VDC
Installation	Surface Mounted
Operational Temp.	0°C ~ +40°C
Consumption	350mA
Dimensions	183mm(W)x185mm(H)x20mm(D)
Weight	550g



C/W White Monitor

APKITKPG

C/W Black Monitor

APKITKPGBLK

Colour Video Door Entry Keypad System with Record Facility



- Waterproof IP55 metal outdoor station
- High resolution colour Camera
- Built in keypad for door code unlocking
- Simple 2 core cable installation

Image Sensor	1/3" Colour CCD
Min. Illumination	0.1 LUX
Illumination	6 LEDs
Lens	3.6mm
Viewing Angle	70°
Power	24VDC
Operating Temp.	-20°C ~ +40°C
Dimensions	87mm(W)x 200mm(H)x 53mm(D)
Weight	640g

APDSSWKP
Singleway Video Door Station with Keypad



- Flush mount kit for APDSMW, APDSSWKP and APDSPXMW

Bracket	
Frame Dimensions	126 (W) x 244 (H)
Mount box Dimensions	101 (W) x 210 (H) x 25 (D)
Weight	230g

APDSKPFMS
Flush Mount Kit

- Waterproof IP55 outdoor station
- High resolution colour Camera
- Simple 2 core cable installation

Image Sensor	1/3" Colour CCD
Min. Illumination	0.1 LUX
Illumination	6 LEDs
Lens	3.6mm
Viewing Angle	70°
Power	24VDC
Operating Temp.	-20°C ~ +40°C
Dimensions	85mm(W)x 165mm(H)x 53mm(D)
Weight	390g



APDSSW
Singleway Video Door Station

- Single Way system component
- 24VDC/800mA power output
- Dimensions 90mm(W)x60mm(H)x105mm(L)
- Only 1 power supply per system required



APPOWSWDR
Combined Power & Bus Separator Unit
for Singleway System



- Suitable for Single or Multi way installations
- Simple 2 core cable installation
- Clear two-way audio
- Lock release facility
- Magnetic receiver holster
- Durable white gloss casing

Handset

Power	24VDC
Installation	Surface Mounted
Operational Temp.	0°C ~ + 40°C
Consumption	200mA
Dimensions	78mm(W)x245mm(H)x50mm(D)
Weight	315g

APAUDH
Door Entry Handset



- Suitable for Single or Multi way installations
- Simple 2 core cable installation
- Clear two-way audio
- Lock release facility
- Magnetic receiver holster
- Durable black gloss casing

Handset

Power	24VDC
Installation	Surface Mounted
Operational Temp.	0°C ~ + 40°C
Consumption	200mA
Dimensions	78mm(W)x245mm(H)x50mm(D)
Weight	315g

APAUDHBLK
Door Entry Handset

- Simple 2 core cable installation
- 7" TFT screen with clear high resolution colour picture
- Durable white or black casing

Power	24VDC
Installation	Surface Mounted
Operational Temp.	0°C ~ +40°C
Consumption	300mA
Dimensions	215mm(W)x152mm(H)x18mm(D)
Weight	450g



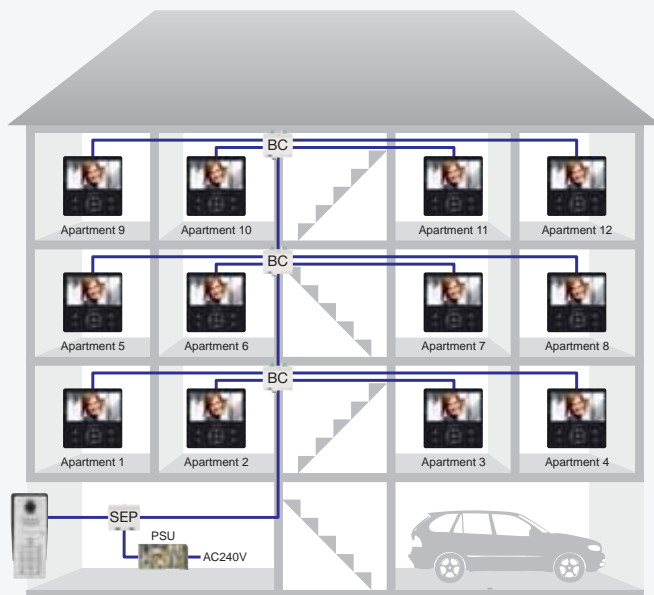
Black **APMONB** White **APMONW**
Colour Video Door Entry Monitor

- 7" TFT screen with clear high resolution colour picture
- Simple 2 core cable installation
- On screen menu for simple system set up & customisation
- Optional still or video recording and playback of callers (4GB SD card included)
- Durable white or black casing

Power	24VDC
Installation	Surface Mounted
Operational Temp.	0°C ~ +40°C
Consumption	350mA
Dimensions	183mm(W)x185mm(H)x20mm(D)
Weight	550g



Black **APMONBG** White **APMONWG**
Colour Video Door Entry Monitor with
Record Facility



MULTI WAY SYSTEM EXAMPLE COMPONENTS



APDSMW
Multiway door
station



APMONW | APMONB |
APMONWG | APMONBG
Colour monitors



APBC4MW
Branch Controller
(A maximum of
4 monitors to
1 Branch controller)



APSEPMW
Power BUS Separator
(Connects to the System
Power Supply and
1st Branch controller)



APPOWMW
System Power Supply

A flexible range of superb quality hands-free colour video door entry products specifically for installation in multiple apartments. Simplicity of installation is the key to Aperta multi way systems, supporting up to 32 apartments in one system and requiring only 2 wires throughout with all outdoor stations and monitors powered by a single power supply. The keypad multi way door station allows both apartment calling plus door unlocking by passcode, no need for 2 separate keypads.

The keypad apartment calling also means that no additional buttons or panels are required, keeping the installation simple, neat and compact. You really need look no further to find the ideal multi way door entry solution.

- Waterproof IP55 metal multiway outdoor station
- High resolution colour Camera
- Built in keypad for door calling and code unlocking
- Simple 2 core cable installation
- Supports up to 32 apartments (Address Numbers 1-32)

Image Sensor	1/3" Colour CCD
Min. Illumination	0.1 LUX
Illumination	6 LEDs
Lens	3.6mm
Viewing Angle	70°
Capacity	32 ID
Status Indication	Audio
Relay Operation	NO/NC
Working Temp.	-20° C ~ +40° C
Ingress Protection	IP55
Construction	Aluminium
Voltage	24VDC
Dimensions	87mm(W)x 200mm(H)x 53mm(D)
Weight	640g



MultiWay Video Door Station **APDSMW**
MultiWay Video Door Station with Custom Apartment Addresses **SP1APDSMW**

- Waterproof IP55 metal multiway outdoor station
- High resolution colour camera
- Simple 2 core cable installation
- Supports up to 32 apartments (Address Numbers 1-32)
- Capacitive keypad for apartment calling, proximity & code unlocking
- Complete with 10 pre-registered user tags
- 10,000 user tags supported

EZT3ST10 Additional Proximity Tags (10 Pack)

Image Sensor	1/3" Colour CCD
Min. Illumination	0.1 LUX
Illumination	6 LEDs
Lens	3.6mm
Viewing Angle	70°
Capacity	32 ID 10,000 Tags
Reader Frequency	125KHz
Effective Distance	<5CM
Status Indication	Audio
Relay Operation	NO/NC
Working Temp.	-20° C ~ +40° C
Ingress Protection	IP55
Construction	Aluminium
Voltage	24VDC
Dimensions	87mm(W)x 200mm(H)x 53mm(D)
Weight	640g



MultiWay Video Door Station **APDSPXMW**
MultiWay Video Door Station with Custom Apartment Addresses **SP1APDSPXMW**



APPOWMW

Power Supply Unit For
MultiWay System

- Multi Way system component
- 24VDC/4.2A power output
- Dimensions 100mm(W)x200mm(L)x40mm(D)
- Only 1 power supply per system required



APSEPMW

Power Bus Separator Unit For
MultiWay System

- Multi Way system component
- For use with APPOWMW power supply



APBC4MW

4-Way Branch Controller For
MultiWay System

- Multi Way system component
- 1 unit supports wiring to 4 apartments or 4 outdoor stations (APDSMW)

- Simple 2 core cable installation
- 7" TFT screen with clear high resolution colour picture
- Durable white or black casing

Power	24VDC
Installation	Surface Mounted
Operational Temp.	0°C ~ +40°C
Consumption	300mA
Dimensions	215mm(W)x152mm(H)x18mm(D)
Weight	450g



Black **APMONB** White **APMONW**
Colour Video Door Entry Monitor

- 7" TFT screen with clear high resolution colour picture
- Simple 2 core cable installation
- On screen menu for simple system set up & customisation
- Optional still or video recording and playback of callers (4GB SD card included)
- Durable white or black casing

Power	24VDC
Installation	Surface Mounted
Operational Temp.	0°C ~ +40°C
Consumption	350mA
Dimensions	183mm(W)x185mm(H)x20mm(D)
Weight	550g



Black **APMONBG** White **APMONWG**
Colour Video Door Entry Monitor with
Record Facility



APWIFIDS Silver
Wi-Fi Door Station with Record Facility

- Alerts user to visitors via APP
- High Definition colour image
- Clear 2 way audio
- Visitor record function
- No subscription or additional fees required
- Lock release facility
- Infra-red LEDs for low light use
- Robust metal housing
- Weatherproof
- Tamper alarm protection
- Hardwired bell chime output
- Requires 2.4GHZ Wi-Fi or LAN network connection

Sensor Size	1/4"
Lens	Fixed 2.1mm
Resolution	720p
Audio	Full Duplex
Memory	Internal 8GB
Sensitivity	0Lux (IR ON) / 0.5Lux (normal)
IR LED	4 x 4
IR distance	<2 Meters
Wi-Fi Antenna	10DB
Power	DC 12V 500mA
Weight	400g
Working temperature	-20° ~ 50°
Dimensions	L55 x W40 x H129mm



APWIFIDSBP Silver **APWIFIDSBKBP Black**
Battery Powered Wi-Fi Door Station with Record Facility

- Alerts user to visitors via smart-phone APP
- Up to 6 months battery life, based on 3 activations per day or hardwire power (PSIL1 recommended)
- Complete with wire-free door chime
- High Definition colour image
- Infra-red LEDs for low light use
- Visitor record function
- No subscription or additional fees required
- Lock release facility
- Contemporary housing
- Weatherproof rating: IP55
- Hardwired bell chime output
- Batteries included
- Requires 2.4GHZ Wi-Fi connection

Sensor Size	1/3"
Lens	Fixed 2.1mm
Resolution	720p
Audio	Full Duplex
Memory	8GB Micro SD Card
Sensitivity	0Lux (IR ON) / 0.5Lux (normal)
IR LED	3 Pcs
IR distance	<2 Meters
Power	DC 12V 500mA / 4 x AA (1.5V) Battery
Weight	770g
Working temperature	-10° / 50°C
Dimensions	L65 x W50 x H140mm

- Two-wire connection
- Durable/Weatherproof door station
- Clear 2 Way audio
- Lock release option
- Wiring distance up to 100 meters
- Easy DIY installation

Handset

Input range	DC12V
Output power	<=0.6W
Working current	<=50mA
Dimension	215mm x 85mm x 60mm

Call Point

Input range	DC12V
Output power	<=0.6W
Working current	<=50mA
IP rating	55
Dimension	150mm x 65mm x 50mm



Audio Door Entry System **APKITA0**
Additional APKITA0H Audio Handset **APKITA0H**

- Easy install, simple self-contained programming
- Up to 1,010 key tag holders or Pin numbers
- 2 separate user groups
- 2 relay outputs
- Anti tamper option
- Weather/dust proof robust construction IP65
- Complete with 10 tags

EZT3ST10 Additional Proximity Tags (10 Pack)



Capacity	Zone 1 : 1000 Card / Tag Combination Zone 2 : 10 Card / Tag Combination
Reader Frequency	125KHz
Effective Distance	<5CM
Status Indication	Red / Green LED
Relay Operation	NO/NC
Relay Duration	01~99sec
Working Temp.	-10 ~ +55°C
Ingress Protection	IP65
Construction	Aluminium
Voltage	DC: 12V-24V AC: 12V~24V
Working Current	<120mA
Standby Current	<90mA
Dimensions	150(H)x43(W)x23(D)



Silver **EZTAG3** Black **EZTAG3B**
Proximity and Keypad Door Entry



- Complete entry system in one box comprising of:
- EZ-TAG3 Proximity Door Entry Keypad
- EZT3ST10 Proximity Tags
- EVML-250 Electromagnetic Lock
- EVBPSBB Boxed Power Supply
- EV-EXIT Push to Exit Button
- EV-EBG Emergency Break Glass

EZTAG3PRO Silver **EZTAG3PROB** Black
Proximity and Keypad Door Entry Kit



- Complete entry system in one box comprising of:
- EZ-TAG3 Proximity Door Entry Keypad
- EZT3ST10 Proximity Tags
- EVML-250 Electromagnetic Lock
- EVBPSBB Boxed Power Supply
- EVEXITM Push to Exit Mushroom Button
- EV-EBG Emergency Break Glass

EZTAG3PROM Silver **EZTAG3PROMB** Black
Proximity and Keypad Door Entry Kit

EV-EXIT

Push to Exit Release Button

- Exit button
- Normally open contacts
- Clear wording
- Stainless steel fascia (Surface mount box part code: UDTASMBSS)
- 87.5 x 87.5 x 22mm
- 170g

**EVEXITM**

Push to Exit Mushroom Release Button

- Large mushroom exit button
- Normally open & closed contacts
- Clear wording
- Stainless steel fascia (Surface mount box part code: UDTASMBSS)
- 87.5 x 87.5 x 35mm
- 173g

**EVEXITMIP55**

Push to Exit Mushroom Release Button IP55

- Large mushroom exit button
- IP55 Ingress protection
- Normally open & closed contacts
- Clear wording
- Robust housing (Includes surface mount box)
- 85mm x 80mm x 85mm
- 200g





ENTERD

Electronic Lock

- Holding force 295kg/650lbs
- 160ma 12vdc input
- For use with Yale type rim locks
- Surface mounting version available
- Fail Secure
- Dimensions - 28.5 x 31 x 160mm
- Requires EVBPSBB power supply



EV-ML-250

Electromagnetic Lock

- Holding force 250kg/550lbs max
- Z & L mounting bracket included
- Dual voltage 12 & 24 VDC
- Fail safe
- Dimensions excl. bracket - 250 x 26 x 41mm
- Requires EVBPSBB power supply



ENTERD-YLR

Surface Electronic Lock

- Holding force 295kg/650lbs
- 160ma 12vdc input
- For use with Yale type surface locks
- Flush mounting version available
- Fail Secure
- Requires EVBPSBB power supply



EV-ML-500XT

Electromagnetic Lock

- IP67 rated weather resistant external lock
- Holding force 500kg/1200lbs max
- Z & L mounting bracket included
- Dual voltage 12 & 24 VDC
- Fail safe
- Dimensions excl. bracket - 220 x 42 x 62mm
- Requires EVBPSBB power supply



EV-ML-250ZLB

Electromagnetic Lock

- Spare Z and L bracket for EV-ML-250



EVBPSBB

Boxed Power Supply

- 100-240vAC, 50/60Hz input
- 1.5A / 12vDC fail safe/secure output
- 1A 12vDC output
- Backup battery facility (Requires Battery)
- Size: 129 x 73 x 50mm LWD



EV-EBG

Emergency Break Glass

- Surface mounted
- Emergency break glass to release door

EV-EBG-KEY Pack of 5 keys for EV-EBG

EV-EBG-CVR Pack of 5 plastic covers for EV-EBG



BAT7

12V - 7.0ah SLA Battery

- Back up battery for EVBPSBB, MAG2P, MAG2, MAG4P and MAG4



FIRE PROTECTION

The ESP® fire systems have been created to balance performance, reliability and aesthetics whilst being fully CPR compliant and certified to EN54 standards. The range includes everything required to complete high quality, durable, two wire, conventional and addressable fire alarm installations.

MAGDUO®

MAGfire®





MAGDUO2BKIT

2 Zone Two Wire Conventional Fire Alarm Kit

- MAGDUO2B 2 zone Two Wire fire panel
(Requires 2 x 12v 3.2ah SLA Batteries)
- 6 x MAGDUOSHDS Selectable optical smoke / heat detectors with inbuilt sounders & bases included
- 1 x MAGDUOSHDS Selectable optical smoke / heat detectors with inbuilt sounder & strobe, base included
- 2 x MAGDUOCP Resettable call points
- 1 x MAGDUOSHDRT Head removal tool



MAGDUO2KIT

2 Zone Two Wire Conventional Fire Alarm Kit

- MAGDUO2 2 zone Two Wire fire panel
(Requires 2 x 12v 3.2ah SLA Batteries)
- 6 x MAGDUOSHDS Selectable optical smoke / heat detectors with inbuilt sounders & bases included
- 1 x MAGDUOSHDS Selectable optical smoke / heat detectors with inbuilt sounder & strobe, base included
- 2 x MAGDUOCP Resettable call points
- 1 x MAGDUOSHDRT Head removal tool



MAGDUO4BKIT

4 Zone Two Wire Conventional Fire Alarm Kit

- MAGDUO4B 4 zone Two Wire fire panel
(Requires 2 x 12v 3.2ah SLA Batteries)
- 6 x MAGDUOSHDS Selectable optical smoke / heat detectors with inbuilt sounders & bases included
- 1 x MAGDUOSHDS Selectable optical smoke / heat detectors with inbuilt sounder & strobe, base included
- 2 x MAGDUOCP Resettable call points
- 1 x MAGDUOSHDRT Head removal tool

MAGDUO4KIT**4 Zone Two Wire
Conventional Fire Alarm Kit**

- MAGDUO4 4 zone Two Wire fire panel
(Requires 2 x 12v 3.2ah SLA Batteries)
- 6 x MAGDUOSHDS Selectable optical smoke / heat detectors with inbuilt sounders & bases included
- 1 x MAGDUOSHSS Selectable optical smoke / heat detectors with inbuilt sounder & strobe, base included
- 2 x MAGDUOCP Resettable call points
- 1 x MAGDUOSHRT Head removal tool

**MAGDUO8BKIT****8 Zone Two Wire
Conventional Fire Alarm Kit**

- MAGDUO8B 8 zone Two Wire fire panel
(Requires 2 x 12v 3.2ah SLA Batteries)
- 6 x MAGDUOSHDS Selectable optical smoke / heat detectors with inbuilt sounders & bases included
- 1 x MAGDUOSHSS Selectable optical smoke / heat detectors with inbuilt sounder & strobe, base included
- 2 x MAGDUOCP Resettable call points
- 1 x MAGDUOSHRT Head removal tool

**MAGDUO8KIT****8 Zone Two Wire
Conventional Fire Alarm Kit**

- MAGDUO8 8 zone Two Wire fire panel
(Requires 2 x 12v 3.2ah SLA Batteries)
- 6 x MAGDUOSHDS Selectable optical smoke / heat detectors with inbuilt sounders & bases included
- 1 x MAGDUOSHSS Selectable optical smoke / heat detectors with inbuilt sounder & strobe, base included
- 2 x MAGDUOCP Resettable call points
- 1 x MAGDUOSHRT Head removal tool





MAGDUO2 Grey MAGDUO2B Black

2 Zone Two Wire Fire Panel

- Two Wire fire alarm system
- Active end of line monitoring and head removal
- Up to 32 devices per zone (Dependent on Device Loading Unit: DLU)
- 4 line x 20 character LCD display
- Ability to differentiate between smoke detector, heat detector or a manual call point alarms
- Alarm confirmation feature
- Event log storing up to 500 events
- 3 enhanced test modes
- Zone can be configured to day/night detection mode
- Delay programming options
- Certified to EN54 2/4 Standards
- Requires 2 x 12V 2.3Ah batteries (BAT32)
- Optional extended battery box with capacity for 2 x 12V 7.0Ah batteries



Inputs

Max Detectors Per Zone	Up to 32 Devices (Dependant on Device Loading Units, 160 per Zone)
------------------------	--

Power

Mains Supply	230VAC, +10%, -15%, 50/60Hz
Operating Voltage	24vDC (Range 21-31vDC)
Standby Supply	2 x 12V 3.2Ah S.L.A Battery

Outputs

Zone	Up to 2 (300mA)
Monitored Sounder Circuits	Up to 2 (250 mA)
Monitored Relay Circuits	Up to 2 (250 mA)
Auxiliary Output	24vDC (300mA)

Environment

Working Temperature	5°C to 40°C
Dimensions	333 x 333 x 99mm
Weight	2.25 Kg



MAGDUOBBB
Battery Expansion Box for MAGDUO



MAGDUOPK (Pack of 2)
Two Wire Fire Panel Spare Key



MAGDUOPCPS
MAGDUO Software



MAGDUO4 Grey MAGDUO4B Black 4 Zone Two Wire Fire Panel

- Two Wire fire alarm system
- Active end of line monitoring and head removal
- Up to 32 devices per zone (Dependent on Device Loading Unit: DLU)
- 4 line x 20 character LCD display
- Ability to differentiate between smoke detector, heat detector or a manual call point alarms
- Alarm confirmation feature
- RS485 connection to up to 8 repeater panels
- Event log storing up to 500 events
- 3 enhanced test modes
- Zone can be configured to day/night detection mode
- Delay programming options
- 4 or 8 zone panel can now be configured to accept conventional devices on zones 5 to 8 with the optional conventional zone card
- Certified to EN54 2/4 Standards
- Requires 2 x 12V 2.3Ah batteries (BAT32)
- Optional extended battery box with capacity for 2 x 12V 7.0Ah batteries

Inputs

Max Detectors Per Zone	Up to 32 Devices (Dependant on Device Loading Units, 160 per Zone)
------------------------	--

Power

Mains Supply	230VAC, +10%, -15%, 50/60Hz
Operating Voltage	24vDC (Range 21-31vDC)
Standby Supply	2 x 12V 3.2Ah S.L.A Battery

Outputs

Zone	Up to 4 (300mA)
Monitored Sounder Circuits	Up to 2 (250 mA)
Monitored Relay Circuits	Up to 2 (250 mA)
Auxiliary Output	24vDC (300mA)

Environment

Working Temperature	5°C to 40°C
Dimensions	333 x 333 x 99mm
Weight	2.28 Kg



MAGDUOBBB
Battery Expansion Box for MAGDUO



MAGDUOPK (Pack of 2)
Two Wire Fire Panel Spare Key



MAGDUOPCPS
MAGDUO Software



MAGDUO8 Grey MAGDUO8B Black

8 Zone Two Wire Fire Panel



- Two Wire fire alarm system
- Active end of line monitoring and head removal
- Up to 32 devices per zone (Dependent on Device Loading Unit: DLU)
- 4 line x 20 character LCD display
- Ability to differentiate between smoke detector, heat detector or a manual call point alarms
- Alarm confirmation feature
- RS485 connection to up to 8 repeater panels
- Event log storing up to 500 events
- 3 enhanced test modes
- Zone can be configured to day/night detection mode
- Delay programming options
- 4 or 8 zone panel can now be configured to accept conventional devices on zones 5 to 8 with the optional conventional zone card
- Certified to EN54 2/4 Standards
- Requires 2 x 12V 2.3Ah batteries (BAT32)
- Optional extended battery box with capacity for 2 x 12V 7.0Ah batteries

Inputs

Max Detectors Per Zone	Up to 32 Devices (Dependant on Device Loading Units, 160 per Zone)
------------------------	--

Power

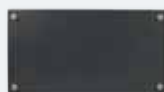
Mains Supply	230VAC, +10%, -15%, 50/60Hz
Operating Voltage	24vDC (Range 21-31vDC)
Standby Supply	2 x 12V 3.2Ah S.L.A Battery

Outputs

Zone	Up to 8 (300mA)
Monitored Sounder Circuits	Up to 2 (250 mA)
Monitored Relay Circuits	Up to 2 (250 mA)
Auxiliary Output	24vDC (300mA)

Environment

Working Temperature	5° C to 40° C
Dimensions	333 x 333 x 99mm
Weight	2.36 Kg



MAGDUOBBB
Battery Expansion Box for MAGDUO



MAGDUOPK (Pack of 2)
Two Wire Fire Panel Spare Key



MAGDUOPCPS
MAGDUO Software



MAGDUOREP Grey MAGDUOREPB Black Conventional Repeater Panel for MAGDUO

- Compatible with MAGDUO 4 or 8 zones control panels only
- Reports MAGDUO panel events to a remote location
- Capable of performing system controls (i.e. Silence Alarms, Reset, Sound Alarms & Silence Buzzer)
- Maximum of 8 repeater panels can be connected to a single control panel

Power

Power	24vDC (Range 21-31vDC)
-------	------------------------

Consumption

Quiescent (Back Light Off)	24vDC @ 16mA
Maximum (Back Light and Controls Enabled)	24vDC @ 50mA

Input

Communication	RS-485
Max. Length Between Panels	500 Meters

Output

Communication	RS-485
Max. Length Between Panels	500 Meters

Technical spec

Max. Number per Panel	8
-----------------------	---

Environment

Working Temperature	5°C to 50°C
Weight	0.65 Kg
Dimensions	250 x 140 x 85 mm



BPS-1 24V 1 Amp Boxed Power Supply

BPS-2 24V 2 Amp Boxed Power Supply

BPS-5 24V 5 Amp Boxed Power Supply

Nb Boxed power supplies require 2 x 12V batteries (not supplied)



MAGDUOSHD

FlexiPoint Detector for Fire Detection

- 7 modes of fire detection including combined smoke/heat
- Built-in End of Line function
- Self-calibration every 6 hours
- Continuous dust contamination monitoring
- Device wiring base included



MAGDUOSHDS

FlexiPoint Detector with Sounder for Fire Detection

- 7 modes of fire detection including combined smoke/heat
- Complete with 3 sounder modes
- Built-in End of Line function
- Self-calibration every 6 hours
- Device wiring base included
- Continuous dust contamination monitoring



MAGDUOSHDS

FlexiPoint Detector with Sounder & Strobe for Fire Detection

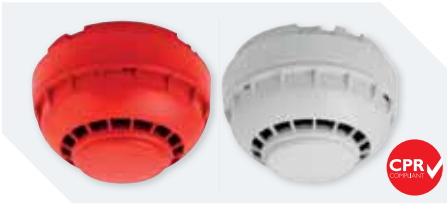
- 7 modes of fire detection including combined smoke/heat
- Complete with 3 sounder modes and LED strobe
- Built-in End of Line function
- Self-calibration every 6 hours
- Device wiring base included
- Continuous dust contamination monitoring

7 Modes Of Detection

Smoke 1 - Standard optical with high thermal enhancement
 Smoke 2 - Standard optical with normal thermal enhancement
 Smoke 3 - Low sensitivity optical with transient rejection

Heat 1 - Rate of Rise 58°C, general use in normal, stable environments (Class A1)
 Heat 2 - Low fixed 58°C, Domestic kitchens etc (Class A1)
 Heat 3 - Hi Fixed 90°C, Commercial kitchens, boiler rooms

Combined - Smoke 2 / Heat 2



MAGDUOSR Red MAGDUOSW White Ceiling Sounder for MAGDUO

- Ceiling mount sounder
- Volume level adjustment
- Built-in End of Line function
- Device wiring base included



MAGDUOSRSQ Red MAGDUOSWSQ White Wall Sounder for MAGDUO

- Wall mount white sounder
- Volume level adjustment
- Built-in End of Line function
- Device base included



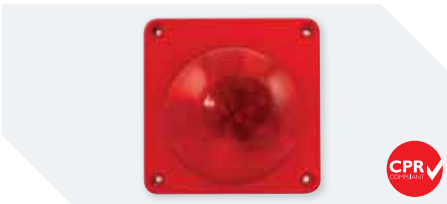
MAGDUOSSLP Sounder Strobe for MAGDUO - Low Profile

- Complete with 3 sounder modes and LED strobe
- Volume level adjustment
- Built-in End of Line function
- Low profile design
- Device wiring base included



MAGDUOSS Sounder Strobe for MAGDUO - Domed

- Complete with 3 sounder modes and LED strobe
- Volume level adjustment
- Built-in End of Line function
- Domed profile design
- Device wiring base included



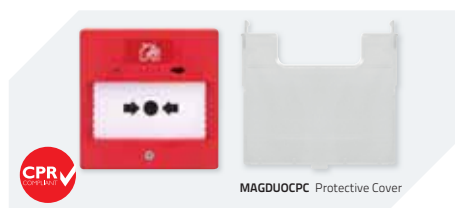
MAGDUOSIP55 Strobe for MAGDUO

- IP55 Ingress protection
- LED strobe
- Built-in End of Line function
- Device base included



MAGDUOSRIP55 Sounder for MAGDUO

- Bullet PointsIP55 Ingress protection
- Volume level adjustment
- Built-in End of Line function
- Device base included



MAGDUOCP MAGDUOCP65 IP Version Call Point for MAGDUO

- Resettable manual call point
- Built-in End of Line function
- Device base included

MAGDUOCPK

Spare Call Point Key for MAGDUO



MAGDUO1OR Module for MAGDUO

- Configure as an input for reporting from other systems or devices
- Configure as an output to control external systems
- Built-in End of Line function



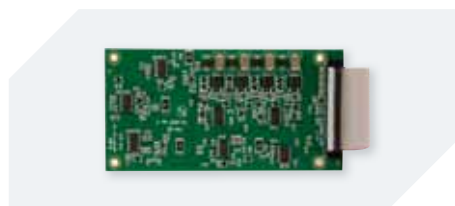
MAGDUOBBB Battery Expansion Box for MAGDUO

- Includes; conduit bushes, coupling and battery leads



MAGDUOSHDBB Deep Base for MAGDUO Devices

- For use with; FlexiPoint devices, internal ceiling sounders & strobes



MAGDUOZC4 MAGDUO4 Zone Expansion Card

- Expands a 4 zone MAGDUO4 to an 8 zone panel

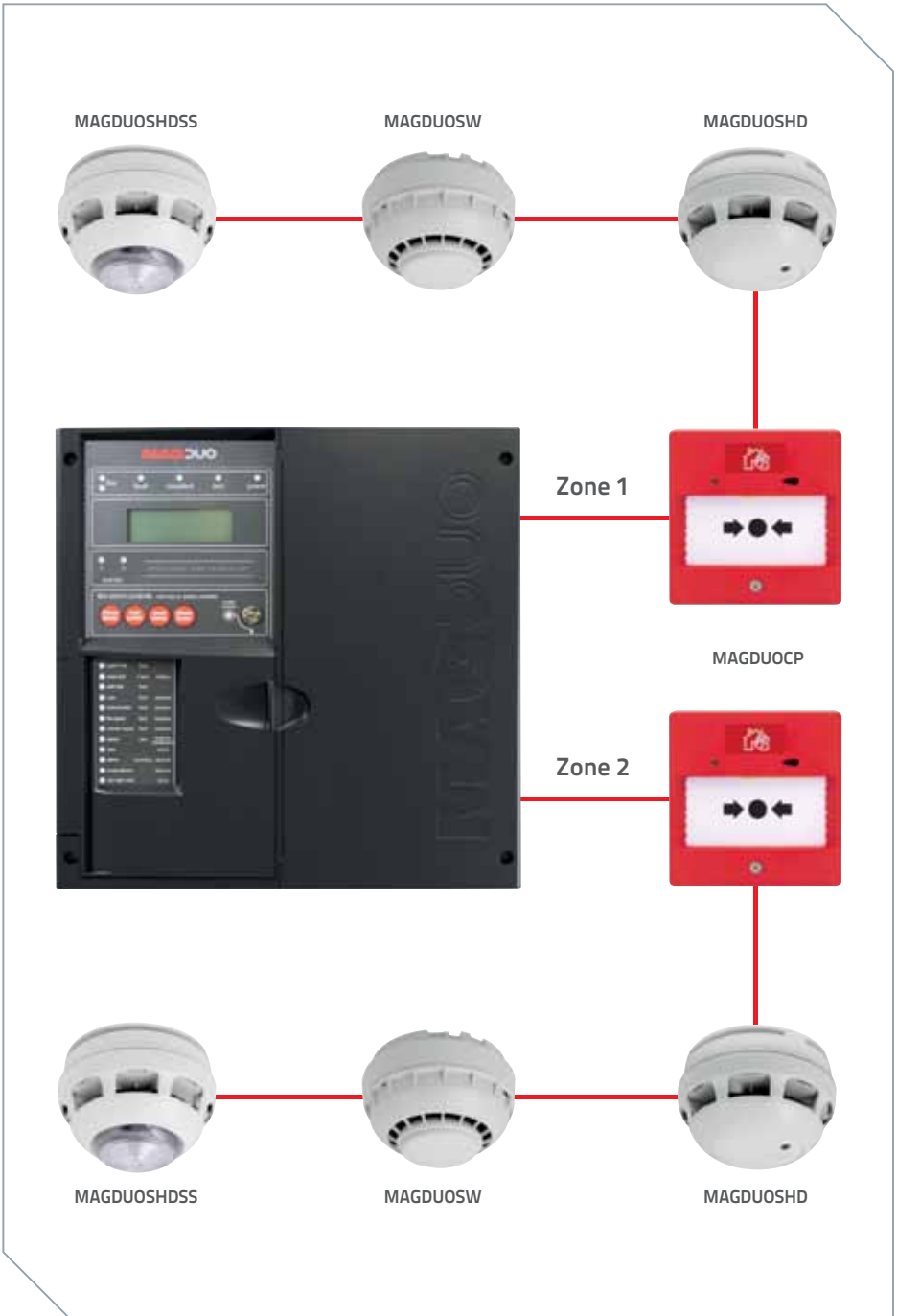
MAGDUOCC4 MAGDUO4 Zone Conventional Card

- Expands a 4 zone MAGDUO4 to include 4 zones for conventional detectors and call points



MAGDUOSHDR1 MAGDUO Head Removal Tool

- Required to remove the chamber from the MAGDUO FlexiPoint detectors, sounders and strobes
- The head removal tool may be attached to an extendable pole





MAGPRO16 White MAGPRO16G Grey

Addressable 16 Zone Fire Panel



- 16 Zones
- Maximum 250 devices per loop
- Memory Log: 10,000 events
- Networkable up to 32 Panels
- Class change function
- 4 x 40 character LCD display
- Free programming software (On completion of training)
- Micro USB port for PC connection
- Loop & amp; battery calculator software included
- Certified to EN54-2/4

16 zone addressable fire alarm panel supplied with 1 loop.
Expandable to 2 loops using MAGPRO16-L250.
A maximum of 250 devices can be connected to each loop.

Inputs

Loops	1 expandable to 2
Devices Per Loop	250
Protocol	MAGPRO

Power

Mains Fail Consumption	125mA DC – 1 LOOP 213mA DC – 2 LOOP
Mains Supply	230V AC + 10%/- 15%
Max Loop Current	500mA DC
Backup	1x12V 18Ah

Outputs

2 Sounders	24v DC @ 500mA
4 Programmable Relays	24v DC @ 15A
3 Monitored Outputs	24v DC @ 100mA
3 Monitored Inputs	Volt free contacts

Environment

Working Temperature	-5°C TO +40°C
Storage	-10°C TO 60°C
Humidity	0 - 95%
Weight	4.2KG (Without Battery)
Dimensions	320 x 220 x 80mm



MAGPRO16-L250
Single Loop Expander for 250 Devices



MAGPRO-PROG Programming Tool
For more info see page 113



MAGPRO96 White MAGPRO96G Grey Addressable 96 Zone Fire Panel

- 96 Zones
- Maximum 250 devices per loop
- Memory Log: 10,000 events
- Networkable up to 32 Panels
- 320 x 240 pixel touch screen display
- Free programming software (On completion of training)
- Micro USB port for PC connection
- Loop & amp; battery calculator software included
- Certified to EN54-2/4

96 zone addressable fire alarm panel supplied with 1 loop. Expandable to 4 loops using additional MAGPRO96-L250's. A maximum of 250 devices can be connected to each loop.

Inputs

Loops	1 expandable to 4
Devices Per Loop	250
Protocol	MAGPRO

Power

Mains Fail Consumption	285mA DC - 1 LOOP 360mA DC - 2 LOOP 435mA DC - 3 LOOP 510mA DC - 4 LOOP
Mains Supply	230V AC + 10%/-15%
Max Loop Current	500mA DC
Backup	1x12V 18Ah

Outputs

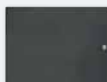
1 Sounder	24v DC @ 300mA
4 Programmable Relays	24v DC @ 15A
2 Monitored Outputs	24v DC @ 300mA
1 Auxillary Output	24v DC @ 300mA
1 Fault Output	24v DC @ 300mA

Environment

Working Temperature	-5°C TO +40°C
Storage	-10°C TO 60°C
Humidity	0 - 95%
Weight	6KG (Without Battery)
Dimensions	456 x 350 x 125mm



MAGPRO96-L250
Single Loop Expander
for 250 Devices



MAGPRO96GGBB
Battery Expansion Box
for MAGPRO96G

- Certified according to EN 54-4
- Supports 2x 12V/18Ah



MAGPRO-PROG Programming Tool
For more info see page 113



*Recommend a Boxed Power Supply with battery backup

MAGPRO-REP

Addressable Repeater Panel



- Wall-mount design
- Only compatible with MAGPRO16 Ver.2.8 and higher
- Compatible with MAGPRO96
- Requires 24VDC External Power Supply
- Max consumption of 0.11A (110mA)
- Each panel in network will require a MAGPRO-NIC
- Maximum of 32 panels in the network
- 1000m distance from MAGPRO-REP to MAGPRO Panel
- Dimensions 200 x 330 x 48mm
- Ring type network
- 10,000 event log within the repeater

Power

From a MAGPRO Panel	AUX / GND
External*	24VDC +/-4 VDC
Consumption	110mA

Input

Communication	RS485
Max Length Between Panels	1000m

Output

Communication	RS485
Max Length Between Panels	1000m

Technical spec

Memory LOG	10,000 events
Network type	Ring
MAGPRO16 Firmware Compatibility	Ver 2.8 or higher
MAGPRO96 Firmware Compatibility	Ver 4.2 or higher
Max number of panels	32
Connection to MAGPRO Panel	Via MAGPRO-NIC

Environment

Working Temperature	-10°C to +50°C
Humidity	95%
Weight	770g
Dimension	200 x 330 x 48mm

MAGPRO-NIC NETWORK INTERFACE CARD

- Networks between MAGPRO16/96 & REP Panels
- MAGPRO16 Firmware REV 2.8 or higher Required
- MAGPRO96 Firmware REV 4.2 or higher Required
- RS-485 Communication protocol
- On-board LED indication
- Power supply from the panel
- Programming from the panel
- 1000m transmission distance between modules



MAGPRO-SD1

Addressable Smoke Detector

- Sensitivity level selectable from the control panel High/Normal/Middle/Low
- Protected area - 120m²
- Installation height - up to 16m
- Day/Night mode
- Low profile design
- LED indication with 360° visibility
- Certified to EN54-7
- Base ordered separately see MAGPRO-DB, MAGPRO-DBS and MAGPRO-DBS



MAGPRO-HD1

Addressable Heat Detector

- Can work as a fixed temperature or rate of rise detector
- Class A1R, A2S, BS selectable from the control panel
- Day/Night mode
- Protected area - up to 35m²
- Installation height - up to 7.5m
- Low profile design
- LED indication with 360° visibility
- Certified to EN54-5
- Base ordered separately see MAGPRO-DB, MAGPRO-DBS and MAGPRO-DBS



MAGPRO-HSD1

Combined Smoke & Heat Detector

- Sensitivity selectable from the control panel -High/Normal/Middle/Low
- Class A1R temperature sensor (according to EN54-5)
- Protected area - up to 120m²
- Installation height - up to 16m
- Day/Night mode
- Low profile design
- LED indication with 360° visibility
- Certified to EN54-5/7
- Base ordered separately see MAGPRO-DB, MAGPRO-DBS and MAGPRO-DBS



MAGPRO-DB
Detector Base



MAGPRO-DBS
Sounder Base



MAGPRO-DBSS
Sounder Strobe Base



MAGPRO-DBSC
Detector Base Cover Blank Plate



MAGPRO-WS ADDRESSABLE SOUNDER

- Piezo sounder
- Adjustable sound level - 92dB/100 dB
- 32 sound types selectable from the panel
- Loop synchronization & powered
- Certified to EN54-3
- Base MAGPRO-DB ordered separately



MAGPRO-WSS SOUNDER STROBE

- Piezo sounder
- Adjustable sound level - 92dB/100 dB
- 32 sound types selectable from the panel
- Loop synchronization & powered
- Certified to EN54-3
- Base MAGPRO-DB ordered separately



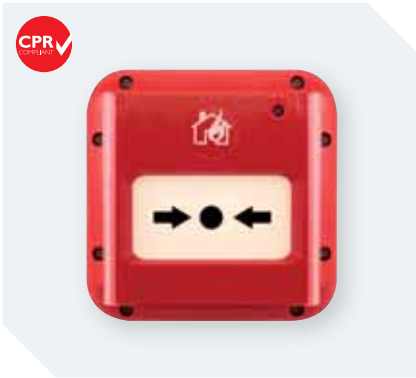
MAGPRO-WSS23 SOUNDER STROBE

- Certified to EN54-23
- Piezo sounder
- Adjustable sound level - 92dB/100 dB
- 32 sound types selectable from the panel
- Loop synchronization & powered
- Base MAGPRO-DB ordered separately



MAGPRO-WSBIP65 Addressable Fire Alarm Sounder IP65 Base

- Waterproof deep base for MAGPRO addressable sounders
- Only for use with models; MAGPRO-WS, WSS and WSS23
- Robust IP65 Waterproof base suitable for wall mounting in aggressive outdoor environments
- Includes 2x IP65 cable glands, O-ring & gasket for secure installation



MAGPRO-CPIP67
IP67 RATED MANUAL CALL POINT

- Resettable call point
- Certified to EN54-11-A
- Built in isolator
- IP67 Rated



MAGPRO-CP
MANUAL CALL POINT

- Resettable call point
- Certified to EN54-11-A
- Built in isolator
- IP40 Rated
- Optional protective plastic cover **MAGPRO-CPC**



MAGPRO-CPC
Plastic Cover for MAGPRO-CP (Pack of 5)



MAGPRO-PROG
PROGRAMMING TOOL

For reading/writing addresses to Callpoints, detectors, sounders and modules.

- Built in MAGPRO-DB standard base
- Mains or battery powered (4 x 1.5V not included)
- Programming cable included



MAGPRO-IM

LOOP ISOLATOR MODULE

- Protection against short circuit
- Auto reset after short circuit
- 4 x cable entry points
- A maximum of 30 devices between two isolators
- Certified to EN54-17



MAGPRO-MINI

1 INPUT MODULE

- Single volt free contact
- Compact size - 58mm x 25mm x 12mm
- Example applications - Integration of third party control devices
- Compliant to EN54-18



ZRL2

LED INDICATOR PLATE

- Flash rate - permanent
- Current - 28 mA Max
- Operating Voltage Range - 5-28V DC

BAT18

12V - 17.0AH SLA BATTERY

- 12V 17ah SLA back up battery



24V BOXED POWER SUPPLIES

BPS-1 24V 1 Amp Boxed Power Supply

BPS-2 24V 2 Amp Boxed Power Supply

BPS-5 24V 5 Amp Boxed Power Supply

Nb Boxed power supplies require 2 x 12V batteries (not supplied)



DOOR HOLDERS

DR916-24 24V DC Door Holder

DR916-240 240V AC Door Holder

DR916-FMB Floor Mounting Bracket

DR916-KP Spare Keeper Plate





MAGPRO-R MAINS RELAY OUTPUT MODULE WITH ISOLATOR

- Suitable for control of 240VAC voltage circuits up to 5A
- Loop powered
- Built in isolator
- Compliant to EN54-18
- Example application - AC 240V door magnet override



MAGPRO-0i40 4 OUTPUT MODULE WITH ISOLATOR

- 4 Relay outputs
- Loop powered
- Built in isolator
- Certified to EN5-18
- Example applications - Shutdown of ventilation equipment and door override



MAGPRO-4i00 4 INPUT MODULE WITH ISOLATOR

- 4 Monitored Inputs
- Loop powered
- Built in isolator
- Certified to EN54-18
- Example applications - Input from external equipment, extinguishing/sprinkler panel



MAGPRO-2i20 2 INPUT 2 OUTPUT MODULE WITH ISOLATOR

- 2 Monitored Inputs
- 2 Outputs
- Loop powered
- Built in isolator
- Certified to EN54-18
- Example application - Link to monitoring station signalling devices



MAGPRO-10Si CONVENTIONAL SOUNDER MODULE WITH ISOLATOR

- Integrate conventional sounders into an addressable system
- Loop powered
- Built in isolator
- Requires 24V PSU
- Compliant to EN54-18



MAGPRO-CZM CONVENTIONAL ZONE MODULE WITH ISOLATOR

- Integrate conventional detectors into an addressable system
- Max number of detectors in one zone - 32
- Loop powered
- Built in isolator
- Certified to EN54-18
- Example applications - Integrate conventional equipment i.e. beam detectors

- MAG2P 2 zone fire panel
- 6 x PSD-2 Optical smoke detectors complete with bases
- 2 x SCP-2R Resettable call points
- 2 x BA-2R Banshee sounders
- 1 x BAT7 12v 7.0ah SLA battery



FLK2P

2 Zone Conventional Fire Alarm Kit



- MAG4P 4 zone fire panel
- 5 x PSD-2 Optical smoke detectors complete with bases
- 1 x FHD-2 Fixed temperature heat detector complete with base
- 2 x SCP-2R Resettable call points
- 2 x BA-2R Banshee sounders
- 1 x BAT7 12v 7.0ah SLA battery



FLK4PH

4 Zone Conventional Fire Alarm Kit





MAG2P

2 Zone Fire Panel

- 2 programmable zones
- Active end of line monitoring and head removal
- 30 fire detectors per zone
- Unlimited number of call points per zone
- Integral sound alarm button
- 'Class change' facility
- Enable/disable security key
- One man walk test facility
- Volt free fire change over relay
- Volt free fault change over relay
- Individual sounder circuit fault ID
- Individual zone/sounder isolate
- CE certified to EN54 P2/4
- Requires only 1x12v battery
- MAG2P - ABS casing



Inputs

Max Detectors Per Zone	30
Thresholds for Zone Conditions	0 - 2 mA (Fault condition) 2 - 6 mA (Normal condition) 6 - 110 mA (Fire condition) 110 mA - Short (Fault condition)

Power

Mains Fail Consumption	50mA
Mains Supply	230 VAC \pm 10%
Standby Supply	1 x 7ah 12V S.L.A. Battery
Power Availability	0.7 amps

Outputs

Sounder 1	24V (max 300mA fused)
Sounder 2	24V (max 300mA fused)
Fault/Fire Relay	Volt free 500mA @ 24V (max load)
Auxiliary Output	24VDC (300mA fused)

Environment

Working Temperature	0 to 40°C
Storage Temperature	-20 to 60°C
Humidity	0 - 95%
Dimensions MAG2P	340 x 290 x 100mm
Dimensions MAG2	200 x 290 x 80mm
Weight	MAG2P - 2.1Kg MAG2 - 2.7Kg



MAG2

2 Zone Fire Panel - Metal Casing

MAGBAR2/4

Spare Barrel & key for use with MAG 2 & 4





MAG4P 4 Zone Fire Panel

- 4 programmable zones
- Active end of line monitoring and head removal
- 30 fire detectors per zone
- Unlimited number of call points per zone
- Integral sound alarm button
- 'Class change' facility
- Enable/disable security key
- One man walk test facility
- Volt free fire change over relay
- Volt free fault change over relay
- Individual sounder circuit fault ID
- Individual zone/sounder isolate
- CE certified to EN54 P2/4
- Requires only 1x12v battery
- MAG4P - ABS casing

Inputs

Max Detectors per Zone	30
	0 - 2 mA (Fault condition)
	2 - 6 mA (Normal condition)
Thresholds for Zone Conditions	6 - 110 mA (Fire condition)
	110 mA - Short (Fault condition)

Power

Mains Fail Consumption	50mA
Mains Supply	230 VAC \pm 10%
Standby Supply	1 x 7ah 12V S.L.A. Battery
Power Availability	0.7 amps

Outputs

Sounder 1	24V (max 300mA fused)
Sounder 2	24V (max 300mA fused)
Fault/Fire Relay	Volt free 500mA @ 24V (max load)
Auxiliary Output	24VDC (300mA fused)

Environment

Working Temperature	0 to 40°C
Storage Temperature	-20 to 60°C
Humidity	0 - 95%
Dimensions MAG4P	340 x 290 x 100mm
Dimensions MAG4	320 x 220 x 80mm
Weight	MAG4P - 2.5Kg MAG4 - 3.5Kg



MAG4
4 Zone Fire Panel - Metal Casing

MAGBAR2/4

Spare Barrel & key for use with MAG 2 & 4




MAGZC-816

4 Zone Expander Card


MAGSC-816

4 Zone Sounder Expander Card

MAG-FMK

Flush Mount Kit for MAG816


MAGBAR816

Spare Barrel & Key


MAG816

8 Zone Fire Panel Expandable to 16 Zones



- Up to 16 programmable zones
- Up to 16 sounder circuits
- Active end of line monitoring and head removal
- Up to 32 fire detectors per zone
- Unlimited number of call points per zone
- Integral sound alarm button
- Repeater facility and 'Class change' facility
- Enable/disable security key
- One man walk test facility
- Volt free fire/fault change over relay
- Individual sounder circuit fault ID
- Individual zone/sounder isolate
- Alarm delay options
- CE certified to EN54 P2/4
- Requires 1 x 12V batteries
- ABS casing

Inputs

Max. Detectors per Zone	32
Thresholds for Zone Conditions	0 - 2 mA (Fault condition) 2 - 10 mA (Normal condition) 10 - 110 mA (Fire condition) 110mA - + Short (Fault condition)

Power

Mains Fail Consumption	130mA (1 zone expander) 260mA (4 zone expanders)
Mains Supply	230 VAC ± 10%
Standby Supply	1 x 18ah 12V S.L.A. Batteries
Power Availability	0.7 amps

Outputs

On Board Sounder Circuits (4)	300mA @ 24V fuse resettable (PTC)
Sounder Expander Cards (4)	150mA @ 24V fuse resettable (PTC)
Fault/Fire Relay	Volt free 500mA @ 24V (max load)
Auxiliary Output	24VDC (300mA fused)

Environment

Working Temperature	0 to 40°C
Storage Temperature	-20 to 60°C
Humidity	0 to 93%
Dimensions (mm)	456 x 350 x 125mm
Weight	4.2 KG

FIRE ZONE / SOUNDER OUTPUT MATRIX

Number of zone cards fitted	2	3	4	2	3	1	2	1
Number of sounder cards fitted	0	0	0	1	1	2	2	3
Number of zones	8	12	16	8	12	4	8	4
Number of sounder outputs	4	4	4	8	8	12	12	16

NB The MAG816 features 4 sounder circuits. Space is provided for up to 4 extra expansion cards of any combination. Sounder cards carry 4 sounder circuits, Zone cards carry 4 fire zones. The MAG816 is supplied as standard with 8 fire zones and 4 sounder circuits.

**CSD2****Combined Optical Smoke & Fixed Heat Detector**

Type	Conventional
Approval	EN54-7, EN54-5
Class	A1R
Operating Voltage	9 - 30VDC
Standby Current @ 24v	< 60µA
Alarm Current @ 24v	49mA
Wire Gauge	0.4mm - 2.0mm TWIN
Operating Temperature	-10°C to 60°C
Test Facility	Simulated Smoke/ Heat

**FHD2****Fixed Temperature Heat Detector**

Type	Conventional
Approval	EN54-5
Class	A2S
Operating Voltage	9 - 30VDC
Standby Current @ 24v	< 60µA
Alarm Current @ 24v	49mA
Wire Gauge	0.4mm - 2.0mm TWIN
Operating Temperature	-10°C to 60°C
Test Facility	Heat Source

These MAGfire detectors have been developed to provide a perfect compliment to the MAGfire MAG panels.
All detectors are supplied with a diode base. Fully compliant with CPR and approved to EN54 standards.

**PSD2****Optical Smoke Detector**

Type	Conventional
Approval	EN54-7
Class	N/A
Operating Voltage	9 - 30VDC
Standby Current @ 24v	< 60µA
Alarm Current @ 24v	49mA
Wire Gauge	0.4mm - 2.0mm TWIN
Operating Temperature	-10°C to 60°C
Test Facility	Simulated Smoke

**RHD2****Rate of Rise Heat Detector**

Type	Conventional
Approval	EN54-5
Class	A1R
Operating Voltage	9 - 30VDC
Standby Current @ 24v	< 60µA
Alarm Current @ 24v	49mA
Wire Gauge	0.4mm - 2.0mm TWIN
Operating Temperature	-10°C to 60°C
Test Facility	Heat Source



CSD212

Combined Optical Smoke & Fixed Heat Detector

Type	Conventional
Approval	EN54-7, EN54-5
Class	A1R
Operating Voltage	9 - 30VDC
Standby Current @ 12v	< 50µA
Alarm Current @ 12v	29mA
Wire Gauge	0.4mm - 2.0mm TWIN
Operating Temperature	-10°C to 60°C
Test Facility	Simulated Smoke/ Heat



FHD212

Fixed Temperature Heat Detector

Type	Conventional
Approval	EN54-5
Class	A2S
Operating Voltage	9 - 30VDC
Standby Current @ 12v	< 50µA
Alarm Current @ 12v	29mA
Wire Gauge	0.4mm - 2.0mm TWIN
Operating Temperature	-10°C to 60°C
Test Facility	Heat Source

The new range of MAGfire detectors have been developed to provide a perfect compliment to 12V hardwire intruder alarm systems. All detectors are supplied with a relay base. Fully compliant with CPR and approved to EN54 standards.



PSD212

Optical Smoke Detector

Type	Conventional
Approval	EN54-7
Class	N/A
Operating Voltage	9 - 30VDC
Standby Current @ 12v	< 50µA
Alarm Current @ 12v	29mA
Wire Gauge	0.4mm - 2.0mm TWIN
Operating Temperature	-10°C to 60°C
Test Facility	Simulated Smoke



RHD212

Rate of Rise Heat Detector

Type	Conventional
Approval	EN54-5
Class	A1R
Operating Voltage	9 - 30VDC
Standby Current @ 12v	< 50µA
Alarm Current @ 12v	29mA
Wire Gauge	0.4mm - 2.0mm TWIN
Operating Temperature	-10°C to 60°C
Test Facility	Heat Source

- 100m operational Distance
- Integral laser alignment
- Auto Align Fast automatic beam alignment
- Low level system Controller
- 24v DC 37mA max current draw
- EN 54:12 & UL268 approved

**BD5000-100**

Fireray 5000 Motorised Reflective Beam

- 50m operational Distance
- Integral laser alignment
- Auto Align Fast automatic beam alignment
- Low level system Controller
- 24v DC 37mA max current draw
- EN 54:12 & UL268 approved

**BD5000-50**

Fireray 5000 Motorised Reflective Beam

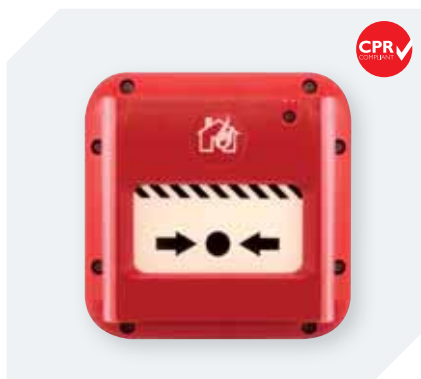


Plastic Cover for SCP2R
(Pack of 5)

SCP2R

Resettable Call Point

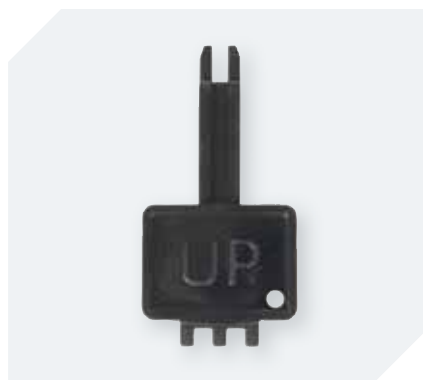
- Surface or flush mounting
- Complete with surface back box
- Spare cover available - SCP2R-CVR



SCP2RIP67

IP67 Rated Manual Call Point

- Resettable call point
- Certified to EN54-11-A
- IP67 Rated



SCP2RK

Reset Key

Spare Keys for MAGPRO-CP, MAGPRO-CPIP67, SCP2R & SCP2RIP67 (Pack of 5)



ZRL2

LED Indicator Plate

- Flash rate - permanent
- Current - 28 mA Max
- Operating Voltage Range - 5-28V DC



BA-2W White Banshee Sounder
BA-2R Red Banshee Sounder

- Sound Output @ 1m 89 - 110 dBA
- Current - 3-39 mA
- IP Rating - IP45



FS1L
 LED strobe

- Flash rate - 60/minute
- 12V & 24V (80mA & 30mA)
- IP Rating - IP65



CB-1R
 Banshee Sounder and Strobe

- Sound Output - 89-110 dBA
- Flash rate - 60/minute
- Current - 40 mA plus sounder
- IP Rating - IP45



CB-1RIP66
 Waterproof Sounder and Strobe

- Sound Output - 89-110 dBA
- Flash rate - 60/minute
- Current - 40 mA plus sounder
- IP Rating - IP66



IFB-1 Internal Fire Bell

- Sound Output - 95 dBA
- Current - 11 mA
- 6" diameter
- IP Rating - IP21C



SD-DB Detector Deep Base

- Allows for mounting in surface cable entry application or on a rough, uneven surface
- Can be used as an adaptor plate for addressable sounder base
- Compatible with: MAGPRO-DB, MAGPRO-DBS, MAGPRO-DBSS, PSD2, CSD2, PSD212, CSD212



WFB-1 Weatherproof Fire Bell

- Sound Output - 95 dBA
- Current - 25 mA
- 8" diameter
- IP Rating - IP55



BA-DB Base for sounder BA-2R, BA-2W and CB-1R to make IP Rated

BASE FOR SOUNDER BA-2R, BA-2W AND CB-1R TO MAKE IP RATED



DBS-1

Detector Base Sounder

- Sound Output @ 1m - 93 dBA
- Current - 18 mA



24V BOXED POWER SUPPLIES

BPS-1 24V 1 Amp Boxed Power Supply

BPS-2 24V 2 Amp Boxed Power Supply

BPS-5 24V 5 Amp Boxed Power Supply

Nb Boxed power supplies require 2 x 12V batteries (not supplied)



BAT32

12V - 3.2AH SLA BATTERY

- 12V 3.2ah SLA back up battery



BAT7

12V - 7.0AH SLA BATTERY

- Back up battery for EVBP5BB, MAG2P, MAG4, MAG4P and MAG4



BAT18

12V - 17.0AH SLA BATTERY

- 12V 17ah SLA back up battery



DR916-FMB FLOOR MOUNTING BRACKET

- For use with DR916-24 and DR916-240



MAGR 8 ZONE RELAY MODULE MAG816

- Expander module providing 8 relay switches for zone activation
- Separate zone (max. 8) activation in fire condition
- N.O & N.C options



DOOR HOLDERS

DR916-24 24V DC Door Holder

DR916-240 240V AC Door Holder



DR916-KP SPARE KEEPER PLATE

- For use with DR916-24 and DR916-240



MAGEOL ZONE MODULE

- End of line zone module (Pack of 5)
- For conventional panels



MAGEOL-S SOUNDER MODULE

- End of line sounder module (Pack of 5)
- For conventional panels



MAGAUXISORP

AUXILIARY ISOLATION SWITCH (RED)

- Suitable for mains switching up to 8 amp
- Secure key switch enables safety for maintenance and offers protection against tamper
- External trigger option
- Programmable internal buzzer for activation
- Clear operation LED indication
- Surface or recess mount



MAGAUXISOWP

AUXILIARY ISOLATION SWITCH (WHITE)

- Suitable for mains switching up to 8 amp
- Secure key switch enables safety for maintenance and offers protection against tamper
- External trigger option
- Programmable internal buzzer for activation
- Clear operation LED indication
- Surface or recess mount



MAGISORP

FIRE ISOLATION SWITCH (RED)

- Complies with BS5839 Part1
- Isolates the mains voltage supply to the fire system
- Enables safety for maintenance and offers protection against tamper
- Both the live and neutral supply is switched



MAGISOWP

FIRE ISOLATION SWITCH (WHITE)

- Complies with BS5839 Part1
- Isolates the mains voltage supply to the fire system
- Enables safety for maintenance and offers protection against tamper
- Both the live and neutral supply is switched



MAGISOPFUSE

FIRE ISOLATION SWITCH SPARE FUSES

- Spare fuses for MAGISORP - Fire Isolator Switch



MAGISORPK

FIRE/AUXILIARY ISOLATION SWITCH SPARE KEY

- Spare key for MAGISORP & MAGAUXISORP



A modern office interior with white desks, black ergonomic chairs, and a white pillar. A green semi-transparent overlay covers the middle section of the image, containing the Duceri logo and text.

duceri[®]

EMERGENCY LIGHTING

The new emergency lighting collection provides contractors and installers with a comprehensive, contemporary product range that has been independently tested to comply with the latest industry standards and regulations. The range now also includes the new Self-Test range.



- Self Test Emergency Light
- 5500K Colour Temperature
- Viewing Distance - 25m
- SMD 2835 LED lamp
- Steel housing - White Finish
- Wall Mounted
- Charge and Discharge Protection
- Green LED Indicator
- 3 Hours Emergency Duration
- 3.6V 1500mAh Ni-Cd battery
- BS EN 60598-2-22 Standards
- BS EN 62034 Standards
- Dimensions - 390 x 190 x 60mm
- Weight - 1.3Kg

EMSTLED3WMEXBOX

3W LED Maintained Emergency Sign



EMBAT3.6V1500
3.6V 1500mAh Battery



EMSTLED3WMEXBOXU
3W LED Maintained
Emergency Sign UP



EMSTLED3WMEXBOXD
3W LED Maintained
Emergency Sign DOWN



EMSTLED3WMEXBOXL
3W LED Maintained
Emergency Sign LEFT



EMSTLED3WMEXBOXR
3W LED Maintained
Emergency Sign RIGHT








- Self Test Emergency Light
- 5500K Colour Temperature
- Maintained & Non-Maintained Operation
- SMD 2835 LED Lamp
- Polycarbonate Housing
- Ceiling or Wall Mounted
- Charge and Discharge Protection
- Green LED Indicator
- 3 Hours Emergency Duration
- 3.6V 1500mAh NI-CAD Battery
- BS EN 60598-2-22 Standards
- BS EN 62034 Standards
- Mains Light Output - 121 Lumens
- Emergency light Output -119 Lumens
- Dimensions - 345 x 110 x 60mm
- Weight - 0.6Kg



EMSTLED3WMBULK

3W LED IP65 Maintained Emergency Bulkhead

- **EMBULKLGD** Emergency Bulkhead Legend
- **EMBULK2FLUSH** Bulkhead Flush Kit
- **EMBAT3.6V1500SER** 3.6V 1500mAh Battery

Mounting Height					
	Axial/ Wall	Axial/ Axial	Transverse/ Axial	Transverse/ Transverse	Transverse/ Wall
2.0m	3.1	7.4	6.5	5.6	2.4
2.5m	3.3	8.3	7.3	6.3	2.6
3.0m	3.4	9.0	8.0	6.9	2.7

Illuminance values based on a maintenance factor of 0.85

Photometric spacing data 1 Lux (centre to centre in metres on emergency escape routes)

- Self Test Emergency Light
- Interchangeable Open & Corridor Lens
- 5500K Colour Temperature
- High Power 3W LED
- Maintained & Non-Maintained Operation
- Polycarbonate Housing
- Ceiling or Wall Mounted - flush kit available
- Charge and Discharge protection
- Green LED Indicator
- 3 Hours Emergency Duration
- 3.6V 1800mAh NI-CAD Battery
- IP44 Ingress Protection Rating
- BS EN 60598-2-22 Standards
- BS EN 62034 Standards
- Emergency Light Output ~147 Lumens (Open lens)
- Emergency Light Output ~138 Lumens (Corridor lens)
- Weight- 0.4Kg



EMST3WMSDL

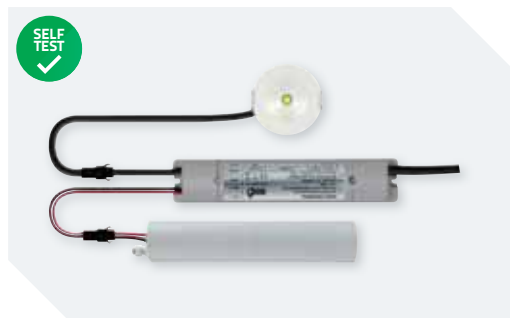
LED 3W Emergency Open and Corridor Lens Downlight

Mounting Height	Axial/ Wall	Axial/ Axial	Transverse/ Axial	Transverse/ Transverse	Transverse/ Wall
2.0m	Open 2.4, Corridor 0.9	Open 7.9, Corridor 5.8	Open 7.9, Corridor 7.9	Open 7.9, Corridor 10.0	Open 2.4, Corridor 4.6
2.5m	Open 2.5, Corridor 0.5	Open 6.7, Corridor 2.4	Open 7.0, Corridor 7.1	Open 7.4, Corridor 11.9	Open 2.6, Corridor 5.4
3.0m	Open 1.0, Corridor 0.5	Open 6.8, Corridor 2.4	Open 6.9, Corridor 8.1	Open 6.9, Corridor 13.7	Open 2.8, Corridor 6.1

Illuminance values based on a maintenance factor of 0.85

Photometric spacing data 1 Lux (centre to centre in metres on emergency escape routes)

- Self Test Emergency Light
- 5500K Colour Temperature
- High Power 3W LED
- Aluminium Bezel
- Recessed Mounting
- Charge and Discharge Protection
- Green LED Indicator
- 3 Hours Emergency Duration
- 3.6V 1800mAh NI-CAD Battery
- IP20 Rating
- BS EN 60598-2-22 Standards
- BS EN 62034 Standards
- Emergency Light Output ~138 Lumens
- Weight- 0.4Kg



EMST3WNMDLK

LED 3W Emergency Open Lens Downlight

Mounting Height	Axial/ Wall	Axial/ Axial	Transverse/ Axial	Transverse/ Transverse	Transverse/ Wall
2.0m	2.9	7.2	7.1	7.2	2.8
2.5m	3.1	7.7	7.6	7.7	2.9
3.0m	3.1	8.1	8.0	8.0	3.0

Illuminance values based on a maintenance factor of 0.85

Photometric spacing data 1 Lux (centre to centre in metres on emergency escape routes)



- Self Test Emergency Light
- 5500k Colour Temperature
- 2 x 15 SMD 2835 LED Lamps
- Polycarbonate Housing & Heads
- Wall Mounted
- Charge and Discharge Protection
- Green LED Indicator
- 3 Hours Emergency Duration
- 9.6V 2200mAh NI-CAD Battery
- BS EN 60598-2-22 Standards
- BS EN 62034 Standards
- Emergency Light Output - 535 Lumens
- Dimensions - 305 x 306 x 70mm
- Weight - 1.85Kg

EMBAT9.6V2200
9.6V 2200mAh Battery



EMST9WNMSPOT

LED IP65 Non Maintained Emergency Twin Spot



- 5500K Colour Temperature
- 2 x 15 SMD 2835 LED Lamp
- Polycarbonate housing & heads
- Ceiling or wall mounted
- Charge and discharge protection
- Green LED Indicator
- 3 Hours Emergency Duration
- 9.6V 2200mAh NI-CAD Battery
- BS EN 60598-2-22 Standards
- Emergency light output - 535 Lumens
- Dimensions - 305 x 280 x 85mm
- Weight - 1.85Kg

EMBAT9.6V2200
9.6V 2200mAh Battery



EMD9WNMSPOT2

LED IP65 Non Maintained Emergency Twin Spot

- 5500K colour temperature
- 2 x 6 SMD 2835 LED Lamps
- Polycarbonate housing & heads
- Ceiling or wall mounted
- Charge and discharge protection
- Green LED Indicator
- 3 Hours Emergency Duration
- 3.6V 3000mAh NI-CAD Battery
- BS EN 60598-2-22 Standards
- Emergency light output - 309 Lumens
- Dimensions - 305 x 280 x 85mm
- Weight - 1.85Kg

EMBAT3.6V3000
3.6V 3000mAh Battery



EMNMIP40SPOT

LED IP40 Non Maintained Emergency Twin Spot

- 5500K colour temperature
- 2 x 6 SMD 2835 LED Lamps
- Polycarbonate housing & heads
- Ceiling or wall mounted
- Charge and discharge protection
- Green LED Indicator
- 3 Hours Emergency Duration
- 3.6V 3000mAh NI-CAD Battery
- BS EN 60598-2-22 Standards
- Emergency light output - 309 Lumens
- Dimensions - 305 x 280 x 85mm
- Weight - 1.85Kg

EMBAT3.6V3000
3.6V 3000mAh Battery



EMNMIP40BSPOT

LED IP40 Non Maintained Emergency Twin Spot








- Hinged Lid to Assist Installation
- 5500K Colour Temperature
- Maintained & Non-Maintained Operation
- SMD 2835 LED Lamp
- Polycarbonate Housing
- Ceiling or Wall Mounted
- Charge and Discharge Protection
- Green LED Indicator
- 3 Hours Emergency Duration
- Legend Included
- 3.6V 900mAh NI-CAD Battery
- BS EN 60598-2-22 Standards
- Mains Light Output - 151 Lumens
- Emergency Light Output -107 Lumens
- Dimensions - 225 x 105 x 50mm
- Weight - 0.5Kg

EMLED3WMHBULK

3W LED IP65 Maintained Emergency Bulkhead



EMBAT3.6V900SER 3.6V 900mAh Battery

					
Mounting Height	Axial/ Wall	Axial/ Axial	Transverse/ Axial	Transverse/ Transverse	Transverse/ Wall
2.0m	2.2	6.0	6.0	6.0	2.1
2.5m	2.3	6.3	6.0	5.6	2.4
3.0m	2.2	6.4	6.3	6.2	2.5

Illuminance values based on a maintenance factor of 0.85

Photometric spacing data 1 Lux (centre to centre in metres on emergency escape routes)








- 5500K colour temperature
- 30 SMD 2835 LED Lamp
- Maintained & Non-Maintained Operation
- Polycarbonate Housing
- Recessed mounting
- Charge and discharge protection
- Green LED Indicator
- 3 Hours Emergency Duration
- 3.6V 1500mAh Ni-Cd batteries
- BS EN 60598-2-22 Standards
- Mains light output - 131 Lumens
- Emergency light output -105 Lumens
- IP20 Ingress Protection
- Dimensions; 389 x 126 x 80mm
- Cut out dimensions; 340 x 90mm
- Weight - 0.8Kg

EMDLEDWMFLUSH

4W LED Maintained Emergency Flush Bulkhead



EMBAT3.6V1500 3.6V 1500mAh Battery

					
Mounting Height	Axial/ Wall	Axial/ Axial	Transverse/ Axial	Transverse/ Transverse	Transverse/ Wall
2.0m	2.4	6.3	6.3	6.3	2.4
2.5m	2.5	6.7	6.7	6.7	2.5
3.0m	2.5	6.9	6.9	6.9	2.4

Illuminance values based on a maintenance factor of 0.85

Photometric spacing data 1 Lux (centre to centre in metres on emergency escape routes)

- 5500K Colour Temperature
- SMD 2835 LED Lamp
- Maintained & Non-Maintained Operation
- Polycarbonate housing
- Ceiling or wall mounted
- Charge and discharge protection
- Green LED Indicator
- 3 Hours Emergency Duration
- Legend Included
- 3.6V 1200mAh Ni-CAD Battery
- BS EN 60598-2-22 Standards
- Mains light output - 120 Lumens
- Emergency light output - 100 Lumens
- Dimensions - 345 x 110 x 60mm
- Weight - 0.6Kg



EMBULKLGD Emergency Bulkhead Legend

EMBULK2FLUSH Bulkhead Flush Kit

EMBAT3.6V1200SER 3.6V 1200mAh Battery



EMDLED3WMBULK2

3W LED IP65 Maintained Emergency Bulkhead

Mounting Height	Axial/Wall	Axial/Axial	Transverse/Axial	Transverse/Transverse	Transverse/Wall
2.0m	3	7	6	5.5	2
2.5m	3	8	7	6	2.5
3.0m	3.2	8.8	7.8	6.8	2.6

Illuminance values based on a maintenance factor of 0.8

Photometric spacing data 1 Lux (centre to centre in metres on emergency escape routes)

- 5500K Colour Temperature
- SMD 2835 LED Lamp
- Maintained & Non-Maintained Operation
- Polycarbonate Housing
- Ceiling or Wall Mounted
- Charge and Discharge Protection
- 3 Hours Emergency Duration
- 208 Lumen mains output
- 190 Lumen emergency output
- 3.6V 1800mAh Ni-CAD Battery
- BS EN 60598-2-22 Standards
- Dimensions - 345 x 110 x 60mm
- Weight - 0.8Kg



EMBULKLGD Emergency Bulkhead Legend

EMBULK2FLUSH Bulkhead Flush Kit

EMBAT3.6V1800SER 3.6V 1800mAh Battery



EMLED5WMBULK

5W LED IP65 Maintained Emergency Bulkhead

Mounting Height	Axial/Wall	Axial/Axial	Transverse/Axial	Transverse/Transverse	Transverse/Wall
2.0m	3.1	8.1	7.3	6.4	2.6
2.5m	3.2	8.6	7.8	7.0	2.7
3.0m	3.3	8.9	8.2	7.5	2.8

Illuminance values based on a maintenance factor of 0.85

Photometric spacing data 1 Lux (centre to centre in metres on emergency escape routes)








- 5500k Colour Temperature
- 84 SMD 2835 LED Lamp
- Maintained & Non-Maintained Operation
- Polycarbonate Housing White finish
- Wall or Ceiling Mounted
- 1207 Lumen mains output
- 285 Lumen emergency output
- Charge and Discharge Protection
- Green LED indicator
- 3 Hours Emergency Duration
- 6V 1800mAH Battery
- IP65 Rating
- BS EN 60598-2-22
- Dimensions - 330 x 330 x 110mm
- Weight-2.3Kg

EM14WMCBULK

LED 14W Emergency Circular Bulkhead

EMBAT6V1800 6V 1800mAH Battery



					
Mounting Height	Axial/ Wall	Axial/ Axial	Transverse/ Axial	Transverse/ Transverse	Transverse/ Wall
2.0m	5.7	13.9	13.9	13.9	5.7
2.5m	6.2	15.3	15.3	15.3	6.2
3.0m	6.7	16.3	16.4	16.4	6.7

Illuminance values based on a maintenance factor of 0.85

Photometric spacing data 1 Lux (centre to centre in metres on emergency escape routes)



EMBAT6V1800
6V 1800mAH Battery

- 5500K Colour Temperature
- 84 SMD 2835 LED Lamp
- Maintained & Non-Maintained Operation
- Microwave 160° Sensor
- Microwave LUX Setting: 0-30 Lux
- Microwave Duration Setting: 6 Seconds to 30 Minutes
- Microwave Sensitivity Setting: 1-10 Meters
- Polycarbonate Housing
- White finish
- Wall or Ceiling Mounted
- 1207 Lumen mains output
- 285 Lumen emergency output
- Charge and Discharge Protection
- Green LED indicator
- 3 Hours Emergency Duration
- 6V 1800mAH Battery
- IP65 Rating
- BS EN 60598-2-22
- Dimensions - 330 x 330 x 110mm
- Weight-2.4Kg

EM14WMCBULKMW

LED 14W Emergency Circular Bulkhead
W/ Microwave Sensor

					
Mounting Height	Axial/ Wall	Axial/ Axial	Transverse/ Axial	Transverse/ Transverse	Transverse/ Wall
2.0m	5.7	13.9	13.9	13.9	5.7
2.5m	6.2	15.3	15.3	15.3	6.2
3.0m	6.7	16.3	16.4	16.4	6.7

Illuminance values based on a maintenance factor of 0.85

Photometric spacing data 1 Lux (centre to centre in metres on emergency escape routes)

- 5500K Colour Temperature
- 84 SMD 2835 LED Lamp
- Polycarbonate Housing
- White finish
- Wall or Ceiling Mounted
- 1207 Lumen mains output
- Green LED indicator
- IP65 Rating
- BS EN 60598-1
- Dimensions - 330 x 330 x 110mm
- Weight - 2.06Kg

**EM14WMAINSCBULK**

LED 14W Mains Only Circular Bulkhead

- 5500K Colour Temperature
- 84 SMD 2835 LED Lamp
- Microwave 160° Sensor
- Microwave LUX Setting; 0-30 Lux
- Microwave Duration Setting; 6 Seconds to 30 Minutes
- Microwave Sensitivity Setting; 1-10 Meters
- Polycarbonate Housing
- White finish
- Wall or Ceiling Mounted
- 1207 Lumen mains output
- IP65 Rating
- BS EN 60598-1
- Dimensions - 330 x 330 x 110mm
- Weight-2.16Kg

**EM14WMAINSCBULKMW**LED 14W Mains Only Circular Bulkhead
W/ Microwave Sensor



Available In White, Chrome (CH), Brass (BR) Or Black (BK).
Simply Insert Colour Suffix into Code

- 5500K Colour Temperature
- Viewing distance - 25m
- SMT 2835 LED Lamp
- Steel housing
- Wall mounted
- Charge and discharge protection
- Green LED Indicator
- 3 Hours Emergency Duration
- 3.6V 1500mAH NI-CAD Battery
- BS EN 60598-2-22 Standards
- Dimensions - 390 x 190 x 60mm
- Weight - 1.3Kg

EMDLED3WMEXBOX

3W LED Maintained Emergency Sign



EMBAT3.6V1500
3.6V 1500mAH Battery



EMDLED3WMEXBOXU**
3W LED Maintained
Emergency Sign UP



EMDLED3WMEXBOXD**
3W LED Maintained
Emergency Sign DOWN



EMDLED3WMEXBOXL**
3W LED Maintained
Emergency Sign LEFT



EMDLED3WMEXBOXR**
3W LED Maintained
Emergency Sign RIGHT



- 5500K Colour Temperature
- Viewing distance - 24m
- SMD 3528 Lamp
- Polycarbonate frame with legend
- Ceiling or wall mounted
- Charge and discharge protection
- Green LED Indicator
- 3 Hours Emergency Duration
- 3.6V 900mAH Battery
- BS EN 60598-2-22 Standards
- Legend Dimensions - 190x 300mm
- Weight - 0.8Kg

EMD2WMEXSIGN

LED 2W Maintained Exit Sign Legend



EMBAT4.8V600
4.8V 600mAH Battery



EMWMBEXHSIGN
Hanging Sign Wall Bracket



EMD2WMEXSIGNU
LED 2W Maintained
Exit Sign Legend UP



EMD2WMEXSIGND
LED 2W Maintained
Exit Sign Legend DOWN



EMD2WMEXSIGNL
LED 2W Maintained
Exit Sign Legend LEFT



EMD2WMEXSIGNR
LED 2W Maintained
Exit Sign Legend RIGHT

- 5500K Colour Temperature
- 16 SMD 2835 LED Lamp
- Polycarbonate Frame, Acrylic Legend
- Ceiling Mounted
- 60 Lumen mains output
- 44 Lumen emergency output
- 24m Viewing Distance
- Charge and Discharge Protection
- 3 Hours Emergency Duration
- 3.6V 900mAh NI-CAD Battery
- IP20 Rating
- BS EN 60598-2-2
- Legend Dimensions - 190x 300mm
- Legend adjustable up to 650mm
- Weight-1.2Kg

EMWMBEXHSIGN Hanging Sign Wall Bracket

EMBAT3.6V900 3.6V 900mAh Battery



EMD2WMEXHSIGNU
LED 2W Maintained
Hanging Exit Sign
Legend Up



EMD2WMEXHSIGND
LED 2W Maintained
Hanging Exit Sign
Legend Down



EMD2WMEXHSIGNL
LED 2W Maintained
Hanging Exit Sign
Legend Left



EMD2WMEXHSIGNR
LED 2W Maintained
Hanging Exit Sign
Legend Right

- 5500K Colour Temperature
- SMD 2835 LED Lamp
- 28m Viewing Distance
- Polycarbonate Housing
- Ceiling Mounted
- Charge and Discharge Protection
- 3 Hours Emergency Duration
- Double Sided
- Legends Included
- 3.6V 1800mAh NI-CAD Battery
- BS EN 60598-2-22 Standards
- Dimensions - 345 x 110 x 190 mm
- Weight - 1Kg

EMBAT3.6V1800SER 3.6V 1800mAh Battery



EMD2WMEXHSIGN

LED 2W Hanging Exit Sign Legend



EMLED5WMBULKEX

LED 5W Maintained Exit Sign Legends Included



- 5500K Colour Temperature
- High Power 5W LED
- Aluminium bezel
- Recessed Mounted
- Emergency light output - 214 Lumen output
- Charge and Discharge Protection
- Green LED indicator
- 3 Hours Emergency Duration
- 4.8V 3500mAh Battery
- IP20 Rating
- BS EN 60598-2-22
- Weight- 0.9Kg

EM5WNMCDLK

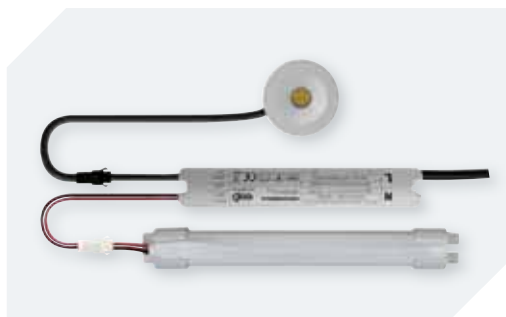
LED 5W Emergency Corridor Lens Downlight



Mounting Height	Axial/Wall	Axial/Axial	Transverse/Axial	Transverse/Transverse	Transverse/Wall
2.0m	3.6	8.4	7.4	6.3	2.4
2.5m	4.2	9.5	8.0	6.5	2.6
3.0m	4.7	10.7	8.8	6.9	2.7

Illuminance values based on a maintenance factor of 0.85

Photometric spacing data 1 Lux (centre to centre in metres on emergency escape routes)



- 5500K Colour Temperature
- High Power 5W LED
- Aluminium bezel
- Recessed Mounted
- Emergency light output - 263 Lumen output
- Charge and Discharge Protection
- Green LED indicator
- 3 Hours Emergency Duration
- 4.8V 3500mAh Battery
- IP20 Rating
- BS EN 60598-2-22
- Weight- 0.9Kg

EM5WNMDLK

LED 5W Emergency Open Lens Downlight

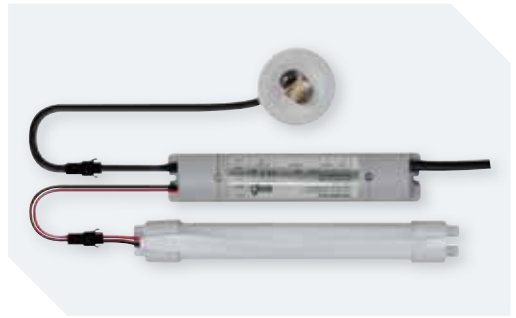


Mounting Height	Axial/Wall	Axial/Axial	Transverse/Axial	Transverse/Transverse	Transverse/Wall
2.0m	3.2	7.3	7.2	7.2	3.2
2.5m	3.7	8.4	8.4	8.4	3.7
3.0m	4.2	9.4	9.4	9.4	4.1

Illuminance values based on a maintenance factor of 0.85

Photometric spacing data 1 Lux (centre to centre in metres on emergency escape routes)

- 5500K Colour Temperature
- High Power 3W LED
- Aluminium bezel
- Recessed Mounted
- Charge and Discharge Protection
- Green LED indicator
- 3 Hours Emergency Duration
- Emergency light output - 105 Lumen output
- 3.6V 1800mAH Battery
- IP20 Rating
- BS EN 60598-2-22
- Weight- 0.4Kg



EM3WNMCDLK

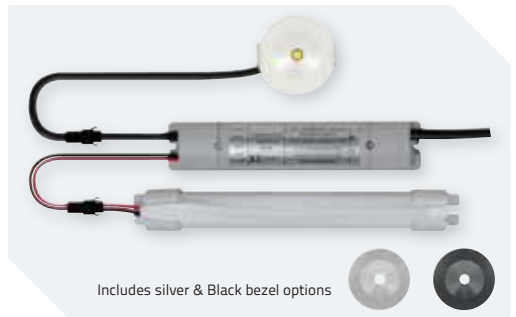
LED 3W Emergency Corridor Lens Downlight

Mounting Height	Axial/ Wall	Axial/ Axial	Transverse/ Axial	Transverse/ Transverse	Transverse/ Wall
2.0m	1.5	7.6	8.4	9.1	4.1
2.5m	1.6	4.3	7.5	10.6	4.8
3.0m	1.8	4.2	8.2	12.2	5.3

Illuminance values based on a maintenance factor of 0.85

Photometric spacing data 1 Lux (centre to centre in metres on emergency escape routes)

- 5500K Colour Temperature
- High Power 3W LED
- Aluminium bezel
- Recessed mounting
- Charge and discharge protection
- Green LED Indicator
- 3 Hours Emergency Duration
- Emergency light output - 138 Lumens
- 3.6V 1800mAH NI-CAD Battery
- IP20 Rating
- BS EN 60598-2-22
- Weight- 0.4Kg



EMD3WNMDLK

LED 3W Emergency Open Lens Downlight

Mounting Height	Axial/ Wall	Axial/ Axial	Transverse/ Axial	Transverse/ Transverse	Transverse/ Wall
2.0m	2.9	7.2	7.1	7.2	2.8
2.5m	3.1	7.7	7.6	7.7	2.9
3.0m	3.1	8.1	8.0	8.0	3.0

Illuminance values based on a maintenance factor of 0.85

Photometric spacing data 1 Lux (centre to centre in metres on emergency escape routes)



EMTSLCD
Emergency Light Test Switch with Digital Display

- Assists the testing of emergency lighting in accordance with BS5266
- Key activated with 4 pre-programmed test intervals; 10 minutes, 30 minutes, 60 minutes & 180 minutes
- Clear LED digital display indication for duration test
- Optional audio buzzer alert for completion of duration test
- Compact design manufactured from antimicrobial material urea
- Operating Voltage: 220-240vac; 4A LED, 10A Incandescent, 6A Fluorescent

4 PRE-PROGRAMMED TEST INTERVALS:

Power Supply	220-240vAC, 50/60Hz
Programming	10, 30, 60, 180 minutes
Display	LED Light Tube
Mounting	Optional Flush or Surface
Current Rating	16A
Switching Capacity	4 amp LED, 10 amp Incandescent, 6 amp Fluorescent
Dimensions	86 x 86 x 33mm



EMTS
Emergency Light Test Switch

- Assists the testing of emergency lighting in accordance with BS5266
- Key activated with 4 pre-programmed test intervals; 10 minutes, 30 minutes, 60 minutes & 180 minutes
- Clear LED indication for duration test
- Optional audio buzzer alert for completion of duration test
- Compact design manufactured from antimicrobial material urea
- 220-240vac Operation; 4A LED, 10A Incandescent, 6A Fluorescent

4 PRE-PROGRAMMED TEST INTERVALS:

Power Supply	220-240vAC, 50/60Hz
Programming	10, 30, 60, 180 minutes
Display	LED
Mounting	Optional Flush or Surface
Current Rating	16A
Switching Capacity	4 amp LED, 10 amp Incandescent, 6 amp Fluorescent
Dimensions	86 x 86 x 33mm



EMBAT3.6V900

3.6V 900mAh Battery

- Replacement battery for Duceri Emergency Lighting; EMD2WMEXHSIGN, EMD2WMEXSIGN



EMBAT3.6V1200SER

3.6V 1200mAh Battery

- Replacement battery for Duceri Emergency Lighting; EMDLED3WMBULK2



EMBAT3.6V1500

3.6V 1500mAh Battery

- Replacement battery for Duceri Emergency Lighting; EMLED5WMFLUSH, EMLEDWMFLUSH, EMDLED3WMEXBOX



EMBAT3.6V1500SER

3.6V 1500mAh Battery

- Replacement battery for Duceri Emergency Lighting; EMLED3WMBULK2



EMBAT3.6V1800SER

3.6V 1800mAh Battery

- Replacement battery for Duceri Emergency Lighting; EMLED3WMBULK, EMLED5WMBULK, EM3WNMDLK, EM3WNMCDLK, EMD3WNMDLK



EMBAT3.6V3000

3.6V 3000mAh Battery

- Replacement battery for Duceri Emergency Lighting; EMNMIP40SPOT, EMNMIP40BSPOT



EMBAT4.8V600

4.8V 600mAh Battery

- Replacement battery for Duceri Emergency Lighting; EM2WMEXSIGN



EMBAT3.6V900SER

3.6V 900mAh Battery

- Replacement battery for Duceri Emergency Lighting; EMLED3WMHBULK



EMBAT4.8V3500SER

4.8V 3500mAh Battery

- Replacement battery for Duceri Emergency Lighting; EM5WNMCDLK, EM5WNMDLK



EMBAT6V1800

6V 1800mAh Battery

- Replacement battery for Duceri Emergency Lighting; EM14WMCBULK, EM14WMCBULKMW



EMBAT9.6V2200

9.6V 2200mAh Battery

- Replacement battery for Duceri Emergency Lighting; EM9WNMSPOT2, EMD9WNMSPOT2



A photograph of a modern house with large glass windows and a grey stone wall. A large tree with green leaves is in the upper right corner. A blue rectangular overlay covers the middle portion of the image, containing text.

THE ESSENTIAL RANGE

The new Essentials product group is just that - ESSENTIAL. Now featuring the new Assistance Alarm Kit.

VanCam | *CanCam* ^{HD} | *GuardCam* | *NightHawk* ^{HD}



DOCBOX

A4 Document Box

- A4 Document Box
- Wall Mountable
- Coated Finish
- Lockable door, 2 keys supplied
- Suitable for fire & emergency lighting system documents
- Suitable for CCTV documents
- Dimensions: 310 x 250 x 80 mm
- Weight: 2 KG



UDTAKIT

Assistance Alarm Kit

- Simple install, 3 part kit - Indication Module, Pull cord module & Reset Module
- Complete with battery back-up function (Battery Included)
- Meets Part M building regulations and BS8300
- Antimicrobial properties
- Alarm to raise alert for assistance
- Compact design to suit many interiors
- Supplied with disabled persons sign
- All modules supplied with single gang back box
- System is expandable to include additional indication and pull cord modules if required



UDTALBM

Light and Buzzer Module

- For use with UDTA Kit
- Clear alarm LED alert
- 80db distinctive audible alert
- Manufactured from Urea
- Complete with surface back box

Input Voltage	12VDC
Power Consumption	0.9W max.
Indicator	LED illuminate in red when system triggered
Buzzer	85db when activated
Dimensions	Single Gang / (W) 87 x (L) 87 x (H) 41mm

UDTAPCM

Pull Cord Module

- For use with UDTA Kit
- Clear alarm LED alert
- Distinctive red 10ft pull cord
- Pull cord complete with anti-ligature mechanism
- 2 Pull handles supplied
- Manufactured from Urea
- Compete with surface back box

Input Voltage	12VDC
Power Consumption	0.3W max.
Indicator	LED illuminate in red when system triggered
Pull Cord Length	3 meters, with two triangular bangles
Dimensions	Single Gang / (W) 87 x (L) 87 x (H) 41mm



UDTAPLBM

Power, Light and Buzzer Module

- For use with UDTA Kit
- Clear alarm LED alert
- 80db distinctive audible alert
- 240vac Input for system power
- Complete with battery back-up function (Battery Included)
- Manufactured from Urea
- Compete with surface back box

Input Voltage	AC100 – 240V / 50Hz – 60Hz / 0.2A
Rated Output	DC12V / 500mA max.
Indicator	LED illuminate in red when system triggered
Buzzer	85db when activated
Dimensions	Single Gang / (W) 87 x (L) 87 x (H) 41mm



UDTAREM

Reset Module

- For use with UDTA Kit
- Clear alarm LED alert
- Distinctive audible alert
- Reset system function
- Manufactured from Urea
- Compete with surface back box

Input Voltage	12VDC
Power Consumption	0.9W max.
Indicator	LED illuminate in red when system triggered
Buzzer	85db when activated
Dimensions	Single Gang / (W) 87 x (L) 87 x (H) 41mm





UDTAKITSS

Assistance Alarm Kit

- Simple install, 3 part kit - Indication Module, Pull cord module & Reset Module
- Complete in a stainless steel finish
- Complete with battery back-up function (Battery Included)
- Meets Part M building regulations and BS8300
- Alarm to raise alert for assistance
- Compact design to suit many interiors
- Disabled persons stainless steel door sign
- System is expandable to include additional indication and pull cord modules



UDTALBMSS

Light and Buzzer Module

- For use with UDTAKITSS
- Clear alarm LED alert
- 80db distinctive audible alert
- Stainless steel finish

Input Voltage	12VDC
Power Consumption	0.9W max.
Indicator	LED illuminate in red when system triggered
Buzzer	85db when activated
Dimensions	Single Gang / (W) 87 x (L) 87 x (H) 41mm



UDTAPCMSS

Pull Cord Module

- For use with UDTAKITSS
- Clear alarm LED alert
- Distinctive red 10ft pull cord
- Pull cord complete with anti-ligature mechanism
- 2 Pull handles supplied
- Stainless steel finish

Input Voltage	12VDC
Power Consumption	0.3W max.
Indicator	LED illuminate in red when system triggered
Pull Cord Length	3 meters, with two triangular bangles
Dimensions	Single Gang / (W) 87 x (L) 87 x (H) 41mm

UDTAPLBMSS

Power, Light and Buzzer Module

- For use with UDTAKITSS
- Clear alarm LED alert
- 80db distinctive audible alert
- 240vAC Input for system power
- Complete with battery back-up function (Battery Included)
- Stainless steel finish

Input Voltage	AC100 – 240V / 50Hz – 60Hz / 0.2A
Rated Output	DC12V / 500mA max.
Indicator	LED illuminate in red when system triggered
Buzzer	85db when activated
Dimensions	Single Gang / (W) 87 x (L) 87 x (H) 41mm



UDTAREMSS

Reset Module

- For use with UDTAKITSS
- Clear alarm LED alert
- Distinctive audible alert
- Reset system function
- Stainless steel finish

Input Voltage	12VDC
Power Consumption	0.9W max.
Indicator	LED illuminate in red when system triggered
Buzzer	85db when activated
Dimensions	Single Gang / (W) 87 x (L) 87 x (H) 41mm



UDTASMBSS

Surface mount Box

- For use with UDTAKITSS Modules





- Wi-Fi Security Light for Remote Viewing
- Full 1080p HD Live View & Recording
- Notifications via APP
- Wide Angle Camera View
- Clear Two-Way Audio
- 3000K LED Lamp
- 800 Lumen Output
- Remotely Dim or Turn On/Off The LED Lamp
- Motion Activated Video Record
- Manual Alarm Feature
- IP55 Rated
- Robust Metal Housing
- 8GB Memory Storage Provided (Up to 200 events)
- No subscription or additional fees required
- Requires 2.4GHZ Wi-Fi or LAN network connection

Supply Voltage	80-260VAC
LED Output	800 Lumens
PIR Detection Angle	100°
PIR Detection Range	10< metres
Camera Angle	120°
Camera White Balance	Automatic
micro SD Card Format	FAT Maximum 64GB (Class10)
IP Rating	IP55
Wi-Fi	2.4GHZ (IEEE 802.11 b/g/n)
Housing	Metal
Dimensions (mm)	Body, 70(W) x 180(H) x 65(D) mm, Bracket-95(W)x110(H) x110(D)mm
Weight	1KG

GUARDCAMDECO

Combined WI-Fi Security Camera LED Light System



- Wi-Fi Security Light for Remote Viewing
- Full 1080p HD Live View & Recording
- Notifications via APP
- Wide Angle Camera View
- Clear Two-Way Audio
- 3000K LED Lamp
- 800 Lumen Output
- Remotely Dim or Turn On/Off The LED Lamp
- Motion Activated Video Record
- Manual Alarm Feature
- IP55 Rated
- Robust Metal Housing
- 8GB Memory Storage Provided (Up to 200 events)
- No subscription or additional fees required
- Requires 2.4GHZ Wi-Fi or LAN network connection

Supply Voltage	80-260VAC
LED Output	800 Lumens
PIR Detection Angle	100°
PIR Detection Range	10< metres
Camera Angle	120°
Camera White Balance	Automatic
micro SD Card Format	FAT Maximum 64GB (Class10)
IP Rating	IP55
Wi-Fi	2.4GHZ (IEEE 802.11 b/g/n)
Housing	Metal
Dimensions (mm)	Body, 70(W) x 180(H) x 65(D) mm, Bracket-95(W)x110(H) x110(D)mm
Weight	1KG

GUARDCAMDECOBLK

Combined WI-Fi Security Camera LED Light System

- Wi-Fi Security light for remote viewing & recording
- High Definition digital camera
- Receive smartphone push notifications for motion activations
- 16 SMD High quality LED security lamp
- 5000k colour light with 1500 lumen output
- Time & Lux adjustment for LED security lamp
- Active PIR with 180° x 10 meter coverage
- 16GB Micro SD card for recording video clips
- Up to 400 video clips stored onto supplied 16GB storage (Expandable up to 128GB)
- IP55 Rated robust housing for external applications
- Requires 2.4GHZ Wi-Fi

Supply Voltage	100-240VAC
Current Drain (activated)	0.4amp
Current Drain (quiescent)	0.005amp
LED Output	1500 Lumens
PIR Detection Angle	180 deg
PIR Detection Range	10 metres
Camera Exposure Control	Automatic
Camera White Balance	Automatic
Camera Sharpness	Automatic
SD Card Format	FAT/FAT32 Maximum 128GB
Image Format	MP4
IP Rating	IP55
Dimensions (mm)	290 x 160 x 140mm
Weight	1.206KG



GUARDCAMLEDWIFI
Combined WI-FI Security Camera LED
Light System

- Detect the intruder, floodlight the area and initiate HD recording
- High Definition Camera
- 1500 Lumen LED lamp output
- Deliver a pre-recorded audible warning
- Capture up to 200 twenty second video clips with 8GB card supplied
- Maximum card capacity is 32GB

GuardCam LED is a complete all-in-one PIR floodlight, Camera, speaker and DVR system. Simply connect to mains power, fix to wall, set the time and date and switch on!

Supply Voltage	220-240VAC
Current Drain (activated)	0.4amp
Current Drain (quiescent)	0.005amp
LED Output	1500 Lumens
PIR Detection Angle	160 deg
PIR Detection Range	12 metres
Camera Exposure Control	Automatic
Camera White Balance	Automatic
Camera Sharpness	Automatic
SD Card Format	FAT/FAT32 Maximum 32GB
Image Format	AVI
IP Rating	IP44
Dimensions (mm)	180 x 190 x 315mm
Weight	1.206KG



GUARD-CAM-LED
Combined Security LED Floodlight



NIGHTHAWK

Low Energy LED Security Light

- LED floodlight – 1500 lumen output
- 40,000 hours LED life
- Low energy 16.5w max. power consump.
- 160 degree PIR detector
- Wide spread illumination up to 120°
- Adjustable on time of 5 secs to 5 mins
- Adjustable lux – dusk to dark
- Adjustable floodlight and PIR direction – Horizontal and vertical axis
- Additional switching capability – 50W LED – 500W halogen
- Ideal for use with up to four NH150LED floodlights
- Weather proof, suitable for external use

Power Source	220 – 240VAC/50Hz
Power Consumption	16.5w (operational)
Detection Method	Passive Infrared Sensor
Detector Range	10M x 160 degrees
Light Output	1500 Lumens
Illumination Angle	120 degrees
Colour	5000K cool white
Time Adjustment	5 seconds to 5 minutes
Maximum Additional Load	LED 50W – Halogen 500W
IP Rating	IP55



NH150

Low Energy LED Flood Light

- LED floodlight – 1100 lumen output
- Wide spread illumination up to 120°
- Low energy 12.1w maximum power consumption
- Adjustable floodlight direction – Horizontal and vertical axis
- Ideal for use with the NightHawk security light with the capability to switch up to 4 extra NH150LED units
- Weather proof, suitable for external use

Power Source	220 – 240VAC/50Hz
Power Consumption	12.7w (operational)
Light Output	1100 Lumens
Illumination Angle	120 degrees
LED Light Output Colour	5600K cool white
Time Adjustment	5 seconds to 5 minutes
Maximum Additional Load	LED 50W – Halogen 500W
IP Rating	IP55

- 10W LED Flood Light in White or Black
- 4000K Colour Temperature
- 800 Lumen Output
- Built-in PIR: 110° Detection Angle, 8m Range with Pre-set 150 Seconds Activation Period
- Auto Lux Control
- 1 Meter Power Cord
- IP65 Ingress Protection for Exterior Use
- Manual Override Function
- Robust Construction
- Textured Diffuser
- Adjustable Bracket
- Dimensions: 110mm H x 99 W x 27 D (Ex. Bracket)
- Includes Fixing Accessories

Power Source	220 - 240VAC/50Hz
Power Consumption	10w
Detection Method	Passive Infrared Sensor
Detection Range	8M x 110 degrees
Light Output	800 Lumen
Colour	4000K
Time Adjustment	Pre-set 150 Seconds
IP Rating	IP65



Black **NH10BS** White **NH10WS**
LED Security Light with Sensor 10W

- 20W LED Flood Light in White or Black
- 4000K Colour Temperature
- 1600 Lumen Output
- Built-in PIR: 110° Detection Angle, 8m Range with Pre-set 150 Seconds Activation Period
- Auto Lux Control
- 1 Meter Power Cord
- IP65 Ingress Protection for Exterior Use
- Manual Override Function
- Robust Construction
- Textured Diffuser
- Adjustable Bracket
- Dimensions: 117mm H x 101mm W x 24 D (Ex. Bracket)
- Includes Fixing Accessories

Power Source	220 - 240VAC/50Hz
Power Consumption	20w
Detection Method	Passive Infrared Sensor
Detection Range	8M x 110 degrees
Light Output	1600 Lumen
Colour	4000K
Time Adjustment	Pre-set 150 Seconds
IP Rating	IP65



Black **NH20BS** White **NH20WS**
LED Security Light with Sensor 20W



- 30W LED Flood Light in White or Black
- 4000K Colour Temperature
- 2400 Lumen Output
- Built-in PIR: 110° Detection Angle, 8m Range with Pre-set 150 Seconds Activation Period
- Auto Lux Control
- 1 Meter Power Cord
- IP65 Ingress Protection for Exterior Use
- Manual Override Function
- Robust Construction
- Textured Diffuser
- Adjustable Bracket
- Dimensions: 143mm H x 123mm W x 24mm D (Ex. Bracket)
- Includes Fixing Accessories

Power Source	220 - 240VAC/50Hz
Power Consumption	30w
Detection Method	Passive Infrared Sensor
Detection Range	8M x 110 degrees
Light Output	2400 Lumen
Colour	4000K
Time Adjustment	Pre-set 150 Seconds
IP Rating	IP65

NH30WS White **NH30BS** Black
LED Security Light with Sensor 30W



- 50W LED Flood Light in White or Black
- 4000K Colour Temperature
- 4000 Lumen Output
- Built-in PIR: 110° Detection Angle, 8m Range with Pre-set 150 Seconds Activation Period
- Auto Lux Control
- 1 Meter Power Cord
- IP65 Ingress Protection for Exterior Use
- Manual Override Function
- Robust Construction
- Textured Diffuser
- Adjustable Bracket
- Dimensions: 216mm H x 186mm W x 24mm D (Ex. Bracket)
- Includes Fixing Accessories

Power Source	220 - 240VAC/50Hz
Power Consumption	50w
Detection Method	Passive Infrared Sensor
Detection Range	8M x 110 degrees
Light Output	4000 Lumen
Colour	4000K
Time Adjustment	Pre-set 150 Seconds
IP Rating	IP65

NH50WS White **NH50BS** Black
LED Security Light with Sensor 50W

- 10W LED Flood Light in White or Black
- 4000K Colour Temperature
- 800 Lumen Output
- 1 Meter Power Cord
- IP65 Ingress Protection for Exterior Use
- Robust Construction
- Textured Diffuser
- Adjustable Bracket
- Dimensions: 110mm H x 99 W x 27 D (Ex. Bracket)
- Includes Fixing Accessories



Power Source	220 - 240VAC/50Hz
Power Consumption	10w
Light Output	800 Lumen
Colour	4000K
IP Rating	IP65

Black

NH10B

White

NH10W

LED Security Light 10W

- 20W LED Flood Light in White or Black
- 4000K Colour Temperature
- 1600 Lumen Output
- 1 Meter Power Cord
- IP65 Ingress Protection for Exterior Use
- Robust Construction
- Textured Diffuser
- Adjustable Bracket
- Dimensions: 117mm H x 101mm W x 24 D (Ex. Bracket)
- Includes Fixing Accessories



Power Source	220 - 240VAC/50Hz
Power Consumption	20w
Light Output	1600 Lumen
Colour	4000K
IP Rating	IP65

Black

NH20B

White

NH20W

LED Security Light 20W



NH30W White **NH30B** Black
LED Security Light 30W

- 30W LED Flood Light in White or Black
- 4000K Colour Temperature
- 2400 Lumen Output
- 1 Meter Power Cord
- IP65 Ingress Protection for Exterior Use
- Robust Construction
- Textured Diffuser
- Adjustable Bracket
- Dimensions: 143mm H x 123mm W x 24mm D (Ex. Bracket)
- Includes Fixing Accessories

Power Source	220 - 240VAC/50Hz
Power Consumption	30w
Light Output	2400 Lumen
Colour	4000K
IP Rating	IP65



NH50W White **NH50B** Black
LED Security Light 50W

- 50W LED Flood Light in White or Black
- 4000K Colour Temperature
- 4000 Lumen Output
- 1 Meter Power Cord
- IP65 Ingress Protection for Exterior Use
- Robust Construction
- Textured Diffuser
- Adjustable Bracket
- Dimensions: 216mm H x 186mm W x 24mm D (Ex. Bracket)
- Includes Fixing Accessories

Power Source	220 - 240VAC/50Hz
Power Consumption	50w
Light Output	4000 Lumen
Colour	4000K
IP Rating	IP65

CANCAMHD is a battery powered high resolution surveillance Camera with integral PIR detector, SD card recording and black infrared illumination.

VANCAM has all the features of CANCAMHD but with the added benefit of a steel vandal resistant case for installation in vulnerable applications such as a shed, rear of van, portable cabin, garage or out house.

- 1080p HD video resolution
- 8MP still image resolution
- Recording triggered via PIR or time lapse programming
- Internal SD card recording (4GB SD card Supplied: Up to 1000 still images or 100 video clips with full card overwrite)
- Battery or 6vdc powered
- Black covert infra-red illumination up to 15 meters for discreet low light level recording
- Simple transfer of recordings
- High quality fixed 6mm lens Camera
- Weatherproof Rating IP55



CANCAMHD
Stand Alone External Surveillance System

Camera

Lens	High precision multi layer coated
Focal Length	6mm (approx. 50° field of view)
Focal Capability	1.5m – infinite
White Balance	Automatic
Exposure Control	Automatic

Recorder

Media	SD maximum 32GB
Video Resolution	HD1080P
Still image Resolution	3MP or 5MP or 8MP
Audio	with video only

Image Capture

Still image	1 – 9 burst selectable
Video	5 - 300 secs
Stamping	Time and date
Control	Via on board data screen

PIR

Range	10-12 m
Angle of Detection	48 degrees
Finish	Black (Covert)

Infra Red

Image Capture	15m
Angle of Illumination	55 degrees
Type	Black covert

Connectivity and Power

TV Output	AV composite video/audio
PC Output	Mini 5P - Btype USB
Power	6vDC plug in power supply
Battery	4 x C cell
Dimensions	Ø 75mm x 140mm



VANCAM
Vandal Resistant Surveillance System



HDMIXWF15D
WIRELESS HDMI SENDER KIT HD 1080P 15M

- Extends HDMI signal up to 15 meters wire free in open field range
- Connect a DVR or NVR HDMI output to a monitor
- Supports up to 1080p Full High Definition Resolution
- Multiple applications for HDMI devices
- 5GHz operation frequency

Power Source	TX/RX: DC5V/1A
Power Consumption	TX:<2.5W RX: <2W
HDMI Compliance	1.3
HDCP Compliance	1.2
Resolution	480p@60Hz, 576p@50Hz, 720p@50/60Hz, 1080p@50/60Hz
Audio	Stereo
HDMI Input	TX:1
HDMI Output	RX:1
Transmission	5GHz
Distance (Open Field)	15 Meters
Working Temperature	0~40°C
Dimensions	TX/RX 78x38x13 mm



HDMIXWF50D
WIRELESS HDMI SENDER DONGLE KIT HD 1080P 50M

- Extends HDMI signal up to 50 meters wire free in open field range
- Connect a DVR or NVR HDMI output to a monitor
- Supports up to 1080p Full High Definition Resolution
- Multiple applications for HDMI devices
- Supports IR pass through
- 5GHz operation frequency

Power Source	TX:DC5V/1A RX: DC5V/2A
Power Consumption	TX:<3W RX: <5W
HDMI Compliance	1.3
HDCP Compliance	1.2
Resolution	480p@60Hz, 480i@60Hz, 576p@50Hz, 576i@50Hz, 720p@50/60Hz, 1080p@50/60Hz, 1080i@50/60Hz
Audio	Stereo
IR Frequency	20~60KHz
HDMI Input	TX:1
HDMI Output	RX:1
Transmission	5GHz
Distance (Open Field)	50 Meters
Working Temperature	0~40°C
Dimensions	TX: 78x38x13mm RX: 94x78x20mm

- Extends HDMI signal up to 50 meters wire free in open field range
- Connect a DVR or NVR HDMI output to a monitor
- Supports up to 1080p Full High Definition Resolution
- Multiple applications for HDMI devices
- Supports IR pass through
- 5GHz operation frequency

Power Source	TX/RX: DC5V/2A
Power Consumption	TX:<7W RX: <5W
HDMI Compliance	1.3
HDCP Compliance	1.2
Resolution	480p@60Hz,720p@50/60Hz, 1080p@50/60Hz
Audio	Stereo
IR Frequency	20-60KHz
HDMI Input	TX:1
HDMI Output	RX:1
Transmission	5GHz
Distance (Open Field)	50 Meters
Working Temperature	0-50°C
Dimensions	TX/RX: 94x78x20mm



HDMIXWF50

WIRELESS HDMI SENDER KIT HD 1080P 50M

- Extends HDMI signal up to 50 meters wire free in open field range
- Connect a DVR or NVR HDMI output to a monitor
- Includes KVM function for mouse control connection to enable access to DVR or NVR menu
- Supports up to 1080p Full High Definition Resolution
- Multiple applications for HDMI devices
- 5GHz operation frequency

Power Source	TX/RX: DC5V/2A
Power Consumption	TX:<7W RX: <5W
HDMI Compliance	1.3
HDCP Compliance	1.2
Resolution	480p@60Hz,720p@50/60Hz, 1080p@50/60Hz
Audio	Stereo
HDMI Input	TX:1
HDMI Output	RX:1 TX:1
Transmission	5GHz
Distance (Open Field)	50 Meters
Working Temperature	0-50°C
Dimensions	TX/RX: 150x78x23mm



HDMIXWF50KVM

WIRELESS HDMI SENDER KIT HD 1080P
50M with KVM



HDMIXWF100
WIRELESS HDMI SENDER KIT HD 1080P 100M

- Extends HDMI signal up to 100 meters wire free in open field range
- Connect a DVR or NVR HDMI output to a monitor
- Supports up to 1080p Full High Definition Resolution
- Multiple applications for HDMI devices
- Supports IR pass through
- 5GHz operation frequency

Power Source	TX/RX: DC5V/2A
Power Consumption	TX:<7W RX: <5W
HDMI Compliance	1.3
HDCP Compliance	1.2
Resolution	480p@60Hz,720p@50/60Hz, 1080p@50/60Hz
Audio	Stereo
IR Frequency	20-60KHz
HDMI Input	TX:1
HDMI Output	RX:1 TX:1
Transmission	5GHz
Distance (Open Field)	100 Meters
Working Temperature	0-50°C
Dimensions	TX/RX: 130x78x23mm



HDMIX120KVM
HDMI SENDER KIT HD 1080P 120M with KVM

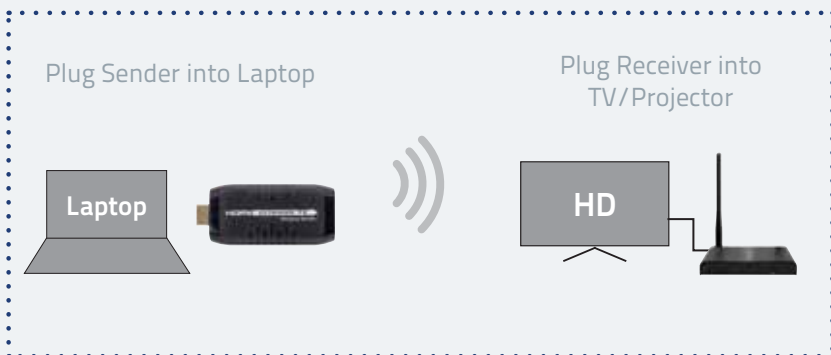
- Extends HDMI signal up to 120 meters via network cable
- Connect a DVR or NVR HDMI output to a monitor
- Includes KVM function for mouse control connection to enable access to DVR or NVR menu
- Supports up to 1080p Full High Definition Resolution
- CAT5(80 meters), CAT5e(100meters), CAT6(120 meters) recommended
- Multiple applications for HDMI devices (Audio Supported)

Power Source	TX/RX: DC5V/1A
Power Consumption	TX:<3.5W RX: <3.5W
HDMI Compliance	1.3
HDCP Compliance	1.2
Resolution	480p@60Hz,720p@50/60Hz, 1080p@50/60Hz
Audio	PCM
HDMI Input	TX:1
HDMI Output	RX:1
LAN	RJ45
Bandwidth	<70 Mbps
Maximum Distance	120 Meters
Working Temperature	0-50°C
Dimensions	TX/RX: 140x89x25mm

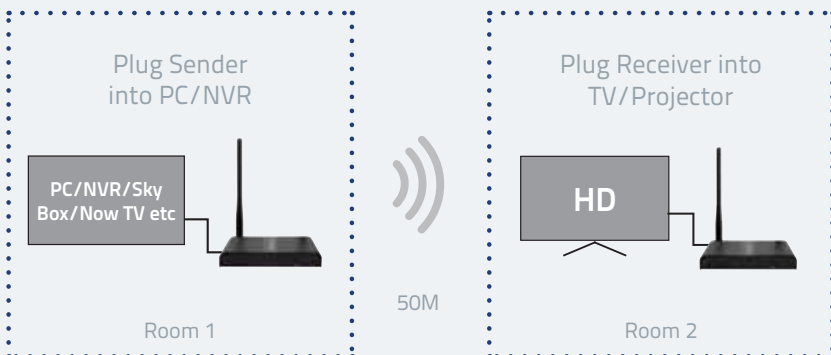
Simple Home Installation



Simple Office Installation



KVM Function- Keyboard/Mouse Pass Through







TIME SWITCHES & HEATING CONTROLS

Sangamo offer a wide range of time switches and heating controls for domestic, commercial and industrial use. Our reputation for quality and reliability is unrivalled.

SANGAMO



CHOICE PROGRAMMERS

Programmers are a key component of heating control systems. Since many homes are unoccupied for parts of the day, there is little point in heating them if no one is there to benefit. A programmer allows the occupant to specify when the heating comes on to match their lifestyle and their heating requirements.

For many people in the UK, this simply means firing up the heating in the winter months for a couple of hours in the morning, so the house is warm when they wake up, and then firing the heating up again in the evening so the house is warm when they get home until they go to bed.



1 channel programmer. Ideal for use with combi boilers with only one heating zone. This programmer has volt free contacts.

CHOICE PR1n
1 Channel Programmer



Also available: **CHOICE PR1S1**
(as above with Service Interval feature)

- 24 hour, 5/2 day and 7 day selectable
- 2 or 3 ON/OFF periods selectable
- 1, 2 or 3 hour boost
- Advance to next programmed event
- Automatic Summer/Winter time change
- Standard wall plate - simple plug in and replace
- Pumped

Power Supply	230V AC, 50Hz
Operating Temperature	0°C to 40°C
Total Switch Rating	230V AC, 2(1)A
Contact Type	1B, Micro-Disconnection (Voltage Free)
Battery Type	Lithium Cell CR2032
Enclosure Protection	IP30
Plastics	Thermoplastic, flame retardant
Insulation Class	Double
Wiring	Fixed wiring only
Backplate	Industry standard
Dimensions	140mm x 87mm x 37mm
Clock	12 hour am/pm, 1 minute resolution, accuracy +/- 1.5 sec/day
Program Resolution	10mins
Program Selection	Auto, On all day, On constant, off
Heating System	Pumped
Complies with	EN60730-1, EN60730-2.7, EMC Directive 2004/108/EC, LVD Directive 2006/95/EC

- 24 hour, 5/2 day and 7 day selectable
- 2 or 3 ON/OFF periods selectable
- 1, 2 or 3 hour boost
- Advance to next programmed event
- Automatic Summer/Winter time change
- Standard wall plate - simple plug in and replace
- Pumped or gravity system selectable

Power Supply	230V AC, 50Hz
Operating Temperature	0°C to 40°C
Total Switch Rating	230V AC, 2(1)A (per channel)
Contact Type	1B, Micro-Disconnection
Battery Type	Lithium Cell CR2032
Enclosure Protection	IP30
Plastics	Thermoplastic, flame retardant
Insulation Class	Double
Wiring	Fixed wiring only
Backplate	Industry standard
Dimensions	140mm x 87mm x 37mm
Clock	12 hour am/pm, 1 minute resolution, accuracy +/- 1.5 sec/day
Program Resolution	10mins
Program Selection	Auto, On all day, On constant, off
Heating System	Pumped or Gravity
Complies with	EN60730-1, EN60730-2.7, EMC Directive 2004/108/EC, LVD Directive 2006/95/EC



2 channel programmer. Designed for separate control of heating and stored hot water. This programmer can also be used with gravity systems.

CHOICE PR2n

2 Channel Programmer

Also available: **CHOICE PR2Si**
(as above with Service Interval feature)



- 24 hour, 5/2 day and 7 day selectable
- 2 or 3 ON/OFF periods selectable
- 1, 2 or 3 hour boost
- Advance to next programmed event
- Automatic Summer/Winter time change
- Standard wall plate - simple plug in and replace
- Pumped system
- Comply with Part L of the Building Regulations

Power Supply	230V AC, 50Hz
Operating Temperature	0°C to 40°C
Total Switch Rating	230V AC, 2(1)A (per channel)
Contact Type	1B, Micro-Disconnection
Battery Type	Lithium Cell CR2032
Enclosure Protection	IP30
Plastics	Thermoplastic, flame retardant
Insulation Class	Double
Wiring	Fixed wiring only
Backplate	Industry standard
Dimensions	140mm x 87mm x 37mm
Clock	12 hour am/pm, 1 minute resolution, accuracy +/- 1.5 sec/day
Program Resolution	10mins
Program Selection	Auto, On all day, On constant, off
Heating System	Pumped
Complies with	EN60730-1, EN60730-2.7, EMC Directive 2004/108/EC, LVD Directive 2006/95/EC



3 channel programmer offers 1 hot water channel and 2 separate heating zones, dependant on the homes plumbing but normally split upstairs & downstairs. This programmer meets the requirements of the building regulations for homes over 150m².

CHOICE PR3n

3 Channel Programmer

Also available: **CHOICE PR3Si**
(as above with Service Interval feature)





CHOICE THERMOSTATS

A room thermostat is used to regulate and maintain a desirable temperature throughout the home. It works by switching the heating system on and off as the temperature varies throughout the day.

For example, if the temperature drops below a certain level, a sensor in the room thermostat can be made to trigger the switch for the boiler and pump which will heat the radiators and in turn, the rooms in the home. If the room rises above a certain temperature, the thermostat will then turn off the central heating system so that your house will cool down to its desired temperature once more.



CHOICE RSTAT1
Mechanical Thermostat

- Dual diaphragm temperature sensing element
- Suitable for surface or pattress box mounting
- 10 to 30°C Set point range
- 2 Wire Installation
- Three terminal heating/cooling changeover

Power Supply	230V AC, 50Hz
Operating Temperature	10°C to 30°C
Current Rating	10(3) A
Temperature Differential	Approx 4°C
Operating Temperature Range	0°C to 40°C
Dimensions	L83 x H83 x D37
Complies with	EN60730-1, En60730-2.9, EMC Directive 2004/108/EC, LVD Directive 2006/95/EC



- Dual diaphragm temperature sensing element
- Suitable for surface or pattress box mounting
- 10 to 30°C Set point range
- 2 Wire Installation
- Three terminal heating/cooling changeover
- Complete with tamperproof cover

Power Supply	230V AC, 50Hz
Operating Temperature	10°C to 30°C
Current Rating	10(3) A
Temperature Differential	Approx 4°C
Operating Temperature Range	0°C to 40°C
Dimensions	L83 x H83 x D37
Complies with	EN60730-1, En60730-2-9, EMC Directive 2004/108/EC, LVD Directive 2006/95/EC



CHOICE RSTAT1T

Tamperproof Mechanical Thermostat



- LCD showing room temperature
- Comfort/Economy or ON/OFF modes
- Frost protection
- Battery Powered (with battery low indication)
- 2 wire installation
- 5-30°C set point range

Power Supply	2 Alkaline batteries 1.5V (type AA)
Contact Rating	3A, 250V AC, (Volt free contact)
Power reserve	1 year
Temperature adjust-ment range	5-30°C
Temperature frost protection	5°C (Non adjustable)
Temperature display range, scale	3 to 51°C, 1°C
Operating Temperature	0 to 50°C
Storage Temperature	10-60°C
Switching Differential	+/- 1°C
Protection Rating	IP21
Wire Size	0.5-1.5mm2
Dimensions	86mm x 86mm x 32mm
Complies with	EN60730-1, EN60730-2-9, EMC directive 2004/108/EC, LVD directive 2006/95/EC



CHOICE RSTAT3

Digital Thermostat





CHOICE RSTAT3RF

Wireless Digital Thermostat



- 30 meters range to the Receiver
- Comfort/Economy or On/Off modes
- Unique RF address to avoid interference
- Clear LCD display showing room temperature
- Large control dial
- Frost protection
- 5-30°C set point range

Transmitter

Power Supply	2xAAA 1.5V batteries
Battery Lifespan	1 year
Temperature Adjustment Range	5-30°C
Temperature Display Range, Scale	3-51°C, 1°C
Temperature Frost Protection	5°C (non adjustable)
Switching Differential	+/- 1°C
Dimensions	86 x 86 x 32mm
Transmission Frequency	433Mhz
Transmission Distance	80m open, 30m indoors
Mounting Method	Wall/Surface

Receiver

Power Supply	230Vac, 50Hz
Contact Rating	16A, 250Vac (Volt Free contact)
Insulation class	2
Flexible Wire Size	1.5mm ²
Rigid Wire Size	1.5mm ²
Dimensions	86 x 86 x 55, when mounted
Mounting	Wall using supplied backbox

Transmitter and Receiver

Operating Temperature	0-50°C
Storage Temperature	10-60°C
Protection Rating	IP21



CHOICE RSTAT5RF

Wireless Digital Programmable Thermostat



- 30 meters range to the Receiver
- Economy and Comfort Operation
- Unique RF address to avoid interference
- 24 hour or 7 day programmable
- 6 programmable events per day
- Button press back-lit operation
- Frost protection
- 5-35°C set point range

Transmitter

Power Supply	4xAAA 1.5V Alkaline batteries
Battery Lifespan	1 year
Temperature display range	5-35°C (increment 0.1)
Temperature control range	0- 50°C (increment 0.5)
Program time increment	10 minutes
Temperature accuracy	+/- 1°C
Switching Differential	+/- 0.5°C or +0/-0.1°C selectable
Operating Temperature	0 - 50°C
Clock Accuracy	<1sec / day
Protection Rating	IP30
Dimensions	110 x 104 x 21.5mm
Transmission Frequency	868Mhz
Transmission Distance	80m open, 30m indoors
Mounting	Wall or free standing using table stand

Receiver

Power supply	230Vac, 50Hz
Contact rating	16A, 250Vac (Volt Free contact)
Insulation class	2
Flexible Wire Size	0.5-1.5mm
Rigid Wire Size	0.5-2.5mm
Dimensions	88 x 88 x 39.4mm
Wall mounting	Industry standard
Complies with	EN60730-1, EN60730-2-7, EN60730-11

- Bi-Metallic temperature sensing element
- Suitable for surface or switch box mounting
- -5 to 25°C set point range
- Tamper resistant cover fitted with accelerator heater

Power Supply	230 Vac, 50 Hz
Temperature control range	-5 to 25°C
Load rating (1-3)	10A / 250 Vac
Ambient Max	T50
Protection Rating	IP20
Dimensions	78mm x 78mm x 36mm



CHOICE FSTAT1
Frost Thermostat



- Easy fixing to all hot water cylinders
- Suitable for use on uninsulated and foam lagged cylinders
- Cylinder strap and hooks provided
- Pipe mounting attachment included

Switch Action	SPPT Type 1CL
Switch Rating	16(4) A, 230 Vac
Sensing Element	Bi-metal
Temperature setting Range	0°C to 90°C
Differential	4°C +2°C
Max Surface Temperature	110°C
Protection	IP40
Fixing	Plastic coated spring wire (1800mm) with hooks



CHOICE CSTAT
Cylinder Thermostat

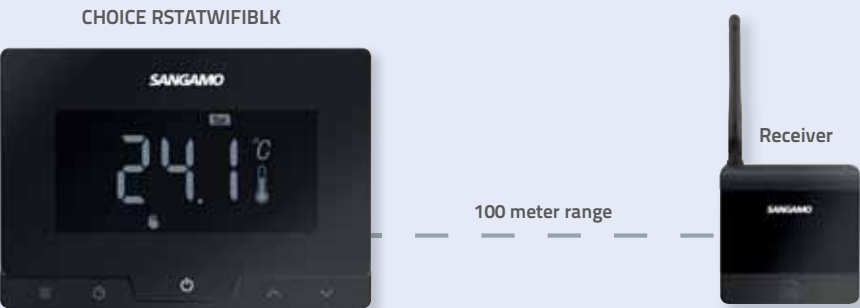


WI-FI THERMOSTATS

Sangamo’s Wi-Fi Thermostat adds smart functionality to your home, ensuring comfortable heating at the right time.

Benefit from energy efficient programming and remote access via APP allowing constant monitoring and control at your fingertips.

The large LCD display and simplified APP has been designed to assist with straight forward installation and operation; suitable for electric, gas or oil systems.



Set Temperature

You can set the temperature from anywhere, even if you're not at home.



Analyse Usage

Track your energy usage from an easy-to-read report. This can highlight periods where heating is wasted, saving you energy.



Program Schedules

Create heating schedules from anywhere, so that your heating is on at the times you want.

- Room thermostat controlled through APP
- Free 'SANGAMO CHOICE' APP with no subscription fees
- Monitor room temperature and thermostat activity
- 100-meter open field range from thermostat to receiver (868mHz)
- 7 day programmable, 6 programmable events per day
- Large LCD display
- 5-35°C set point range
- Frost protection
- Wi-Fi function requires 2.4GHZ network and thermostat to be powered with a mains supply or MicroUSB

Thermostat	
Power Supply	240vAC or microUSB and 4x AAA Alkaline batteries
Temperature operating range	0-50°C
Temperature control range	5-35°C
Temperature accuracy	0.1°C
Protection Rating	IP21
Transmission Frequency	868mHz
Transmission Distance	100 Meter (Open Field)
Wi-Fi Frequency	2.412GHZ-2.484GHZ
Mounting	Wall or Stand
Dimensions	124x88x21mm
Receiver	
Power Supply	240vAC
Switch Rating	16A@250vAC
Transmission Frequency	868mHz
Transmission Distance	100 Meter (Open Field)
Dimensions	85x85x24mm



CHOICE RSTATWIFI

Wi-Fi Thermostat



- Room thermostat controlled through APP
- Free 'SANGAMO CHOICE' APP with no subscription fees
- Monitor room temperature and thermostat activity
- 100-meter open field range from thermostat to receiver (868mHz)
- 7 day programmable, 6 programmable events per day
- Large LCD display
- 5-35°C set point range
- Frost protection
- Wi-Fi function requires 2.4GHZ network and thermostat to be powered with a mains supply or MicroUSB

Thermostat	
Power Supply	240vAC or microUSB and 4x AAA Alkaline batteries
Temperature operating range	0-50°C
Temperature control range	5-35°C
Temperature accuracy	0.1°C
Protection Rating	IP21
Transmission Frequency	868mHz
Transmission Distance	100 Meter (Open Field)
Wi-Fi Frequency	2.412GHZ-2.484GHZ
Mounting	Wall or Stand
Dimensions	124x88x21mm
Receiver	
Power Supply	240vAC
Switch Rating	16A@250vAC
Transmission Frequency	868mHz
Transmission Distance	100 Meter (Open Field)
Dimensions	85x85x24mm



CHOICE RSTATWIFIBLK

Wi-Fi Thermostat





POWERSAVER CONTROLLERS

The primary application for the Powersaver range is to control immersion heaters. In a typical UK household nearly 20% of a home’s energy cost is spent on heating hot water. Leaving an immersion heater on all the time can be a significant waste of energy that can drive this figure up to 25% or higher.

Immersion heaters are often rated at 3kw which, if left on permanently, can cost around 13p per hour/ £1.56 per day/ £9 per week/ £450 per year, so it is best to have control of your heating patterns.

Fitting a Sangamo immersion heater controller can reduce these costs by up to 50%, even more if the property can take advantage of a dual tariff electricity and controlled by the Powersaver Dual Flexi.

The Powersaver Boost and Select models are also suitable for LED lighting and towel rails.



PSB2
Powersaver Boost



- 30 mins, 1 hour and 2 hour boost periods
- Switches appliance off automatically after boost period
- Fits directly onto a single gang pattress box

Power Supply	AC220-240 50/60 Hz
Contact Rating	16A Resistive AC240V 2A LED Lighting AC240V
Fixing	Single Pattress – Surface and Flush Mounting
Live Parts Protection	Enclosure Protection
Dirt and Moisture Protection	IP00
Shock Protection	Class II
Case Material	ABS
Action Type	1B
Temperature Rating	T35
Operation Temperature	0°C to 40°C
Dimensions	87mm x 87mm x 35mm
Complies with	BS EN60730

- 24 hour, 5/2 day & 7 day selectable
- 10 On/Off Programs per Day
- 30 min, 1 hour & 2 hour multi-press boost function
- Fits directly into a single gang surface box
- Button lock feature
- Summer/winter time change

Power Supply	AC220-240 50/60 Hz
Contact Rating	16A Resistive AC240V 2A LED Lighting AC240V
Fixing	Surface and Flush Mounting
Resolution of Programs	10 Minutes
Live Parts Protection	Enclosure Protection
Dirt and Moisture Protection	IP00
Shock Protection	Class II
Case Material	ABS
Action Type	1B
Temperature Rating	T35
Operation Temperature	-10°C to 40°C
Memory Reserve	Permanent reserve setting
Display	LCD
Dimensions	87mm x 87mm x 35mm
Complies with	BS EN60730



PSS2

Powersaver Select



- Suitable for single, dual and twin immersion elements
- Pre-set adjustable (ie minimise or cancel) programs for use with low rate tariffs (Economy 7, Economy 10 & Eco20:20)
- Direct upgrade to Horstmann E7 & E7Q and Sangamo Q7 controllers
- 24 hour electronic timer
- Automatic summer/winter time change
- Programmable boost function - 2 hours max

Power Supply	230V +10% / -15%
Frequency	50/60Hz
Power Consumption	1.2W
Contact Rating	13A Resistive 230V Suitable for immersion heaters up to 3kW
Contact Type	Micro-disconnection on control. Disconnection to immersion heater(s) via double pole rocker switch
Memory Reserve	3 years
Timing Accuracy	+/- 0.5 sec per day at +23°C
Operation Temperature	0°C to 35°C
Shock Protection	Class 1
Live Parts Protection	Enclosure Protection
Dirt and Moisture Protection	IP30
Dimensions	169mm wide, 114mm high, 60mm deep (excluding rocker switch & buttons)
Complies with	BS EN60730



PSDF2

Powersaver Dual Flexi 2





ROUND PATTERN TIME SWITCHES

Sangamo have manufactured the renowned RPTS from our Port Glasgow factory since 1951, having sold over 11 million switches and counting. These 20A switches are famous for their high capacity, quality and reliability.

We often hear from customers who have had switches installed for over 5 decades and often on their second use, having outlived the equipment they were being utilised for.

S250 STANDARD RANGE

The original RPTS model for those that need simple on & off switching of up to 20A. The dial is 24 hour but contains a Day Omit device which skips the ON operation on selected days of the week. These switches come with either 2 or 3 sets of ON & OFF arms. To set the switch you simply loosen the centre screw, move the arms around the dial to match up with the switching times and re-tighten.

3-PIN OR 4-PIN

3-pin switches have common clock & switch connections. 4-pin switches have independent clock & switch connections enabling the use of a different switching circuit voltage, a Volt Free Contact, in effect.



S250 STANDARD RANGE

S254.2 Standard 3 Pin Time Switch, 2 On/Offs

S255.2 Standard 4 Pin Time Switch, 2 On/Offs

S254.3 Standard 3 Pin Time Switch, 3 On/Offs

S255.3 Standard 4 Pin Time Switch, 3 On/Offs

Power Supply	230V AC, 50/60Hz
Programming	24 hour programme with ON/OFF operations
Current Rating	20A resistive. More Switching Capacity info on request
Display	24 hour dial
Mounting	Surface
Day Omission	Selectable
Temp Override Facility	Selectable
Cable Size	6.0mm ²
Timing Accuracy	5 mins/year
Power Consumption	0.6W at 230V
Temperature Range	0° C to 50° C
Live Parts Protection	Enclosure Protection
Type of Protection	IP20
Shock Protection	Class 1 (Product must be earthed)
Dial Calibration	15 min divisions
Setting Accuracy	+/- 3 minutes
Period Between unlike Operations	15 minutes minimum
Period Between like Operations	105 minutes minimum
Dimensions	Height (wall mounted) 136mm, width 105.7mm, projection 82mm, (Total height 146.5mm)
Complies with	BS EN60730

- Programming: 24 hour with on/off operations
- Current Rating: 20A
- Battery Reserve: None
- Day Omit Dial: Yes (Omits the 'ON' operation)
- Temporary override (manual button)





ROUND PATTERN TIME SWITCHES

Sangamo have manufactured the renowned RPTS from our Port Glasgow factory since 1951, having sold over 11 million switches and counting. These 20A switches are famous for their high capacity, quality and reliability.

We often hear from customers who have had switches installed for over 5 decades and often on their second use, having outlived the equipment they were being utilised for.

Q550 STANDARD RANGE

The 'red dial' time switch. Sangamo RPTS with red print on the dial contain a 100 hour battery reserve. These switches offer a wider range of variations and options than the S250 Range.

3-PIN OR 4-PIN

3-pin switches have common clock & switch connections. 4-pin switches have independent clock & switch connections enabling the use of a different switching circuit voltage, a Volt Free Contact, in effect.



- Temporary override (manual button)
- Programming: 24 hour with on/off operations
- Current Rating: 20A
- Battery Reserve: 100 hours
- Day omit dial



Power Supply	230V AC, 50/60Hz
Programming	24 hour programme with ON/OFF operations
Display	24 Hour dial
Mounting	Surface
Current Rating	20A resistive. More Switching Capacity info on request
Reserve	100 hrs (providing battery has been charged for 300 hrs)
Day Omission	Selectable
Temp Override Facility	Selectable
Cable Size	6.0mm ²
Timing Accuracy	5 mins/year
Temperature Range	0°C to 50°C
Live Parts Protection	Enclosure Protection
Dirt and Moisture Protection	IP20
Shock Protection	Class 1 (Product must be earthed)
Dial Calibration	15 min divisions
Setting Accuracy	+/- 3 minutes
Period Between unlike Operations	15 minutes minimum
Period Between like Operations	105 minutes minimum
Day Omit Skips On Operation	Q554, Q555, Q559, Q563, Q586
Day Omit Skips Off Operation	Q557
Dimensions	Height (wall mounted) 136mm, width 105.7mm, projection 82mm, (Total height 146.5mm)
Complies with	BS EN60730

Q550 STANDARD RANGE

- Q554.2** Standard 3 Pin Time Switch, 2 on/off
- Q554.3** Standard 3 Pin Time Switch, 3 on/off
- Q555.2** Standard 4 Pin Time Switch, 2 on/off
- Q555.3** Standard 4 Pin Time Switch, 3 on/off
- Q555.2110V** 110v Standard 4 Pin Time Switch, 2 on/off
- Q557.2** Standard 4 Pin Time Switch, 2 on/off, omit off operation
- Q557.3** Standard 4 Pin Time Switch, 3 on/off, omit off operation
- Q559.2** Standard 4 Pin Time Switch, 2 on/off, early off on 1 day/week
- Q563.2** Standard 4 Pin Time Switch, 2 on/off Changeover Operations
- Q563.3** Standard 4 Pin Time Switch, 3 on/off Changeover Operations
- Q586.2** Standard 4 Pin Time Switch, 2 on/off Changeover Operations, early on 1 day/week



ROUND PATTERN TIME SWITCHES

Sangamo have manufactured the renowned RPTS from our Port Glasgow factory since 1951, having sold over 11 million switches and counting. These 20A switches are famous for their high capacity, quality and reliability.

We often hear from customers who have had switches installed for over 5 decades and often on their second use, having outlived the equipment they were being utilised for.

E850 STANDARD RANGE

Digital RPTS' combine the high capacity and reliability of the electro-mechanical models but provide full 7 day programming, allowing for more complex fixed time program schedules.

The unit is easy & intuitive to program by painting in and wiping out segments on the dial face.

3-PIN OR 4-PIN

3-pin switches have common clock & switch connections. 4-pin switches have independent clock & switch connections enabling the use of a different switching circuit voltage, a Volt Free Contact, in effect.



E850 STANDARD RANGE

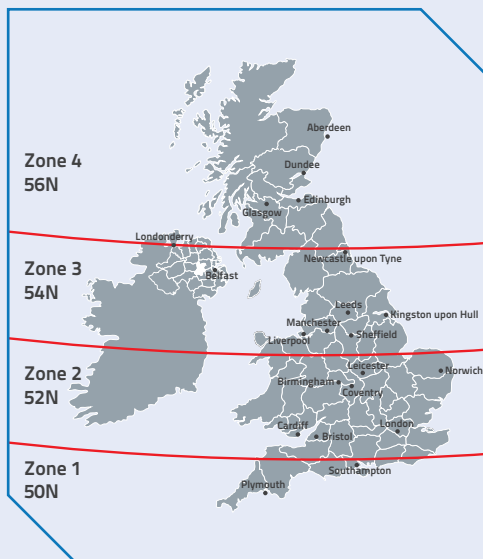
E854 Digital 3 Pin Time Switch, 96 Operations

Power Supply	230V AC, 50/60Hz
Programming	96 Operations
Display	LCD
Mounting	Surface
Current Rating	20A resistive, More Switching Capacity info on request
Reserve	20 days (Rechargeable Battery)
Temp Override Facility	2hr Override On. Advance to Off.
Cable Size	6.0mm2
Timing Accuracy	5 mins/year
Holiday Mode	Suspends programs for 14 days, or indefinitely
BST/GMT Changeover	Automatic
Temperature Range	35°C
Live Parts Protection	Enclosure Protection
Dirt and Moisture Protection	IP20
Shock Protection	Class 11 (functional and supplementary insulation)
Period Between ON/OFF Operations	15 mins
Dimensions	Height (wall mounted) 136mm, width 105.7mm, projection 82mm, (Total height 146.5mm)

E855 Digital 4 Pin Time Switch, 96 Operations

- Programming: 7 day programme
- Up to 48 on and 48 off (96 operations per day)
- Each day can be programmed independently
- Holiday mode
- Auto BST/GMT changeover
- Current Rating: 20A
- Battery Reserve: 20 days
- Temporary override (manual button)





Q550 ASTRO/SUNTRACKER

Astro/Suntracker switches automatically adjust themselves to follow Sunrise/Sunset times throughout the year. This makes them ideal for controlling external and internal lighting loads up to 20A or 3,600W of LED lighting with no need for a sensor.

As these switches track the motion of the sun & not the time it should be set to GMT & left all year, so there's no need to worry about summer & winter clock changes, the switch does it all itself. The month dial controls the brass sunset/sunrise arms automatically to keep the lights switching at the right time each day.

Sunset & Sunrise times vary through the length of the British Isles by as much as 40 minutes at certain times of year. Our RPTS Astro models come in 4 zone variations to make the switching times more accurate. Additionally, users can alter the longitude setting away from the 0° longitude line to focus the accuracy in further, if required.

2 on/off models have a second set of fixed time operating arms, allowing you to set your lighting to go off for a set period overnight while still benefiting from the sunset and sunrise programming.

All models also contain a 100 hour battery reserve.

3-PIN OR 4-PIN

3-pin switches have common clock & switch connections. 4-pin switches have independent clock & switch connections enabling the use of a different switching circuit voltage, a Volt Free Contact, in effect.



Q550 ASTRO/SUNTRACKER

- Programming: 24 hour with on/off operations
- Current Rating: 20A
- Battery Reserve: 100 hours



Power Supply	230V AC, 50/60Hz
Programming	24 hour programme with ON/OFF operations
Display	Solar dial
Mounting	Surface
Current Rating	20A resistive. More Switching Capacity info on request
Reserve	100 hrs (providing battery has been charged for 300 hrs)
Temp Override Facility	Selectable
Cable Size	6.0mm2
Timing Accuracy	5 mins/year
Temperature Range	0°C to 50°C
Live Parts Protection	Enclosure Protection
Type of Protection	IP20
Shock Protection	Class 1 (Product must be earthed)
Dial Calibration	15 min divisions
Setting Accuracy	+/- 3 minutes
Dimensions	Height (wall mounted) 136mm, width 105.7mm, projection 82mm, (Total height 146.5mm)
Complies with	BS EN60730

- Q550.13.11

Astro Zone 1, 3 Pin Time Switch, 1 On/Off, Day Omit skips ON operation
- Q550.13.12

Astro Zone 2, 3 Pin Time Switch, 1 On/Off, Day Omit skips ON operation
- Q550.13.13

Astro Zone 3, 3 Pin Time Switch, 1 On/Off, Day Omit skips ON operation
- Q550.13.14

Astro Zone 4, 3 Pin Time Switch, 1 On/Off, Day Omit skips ON operation
- Q551.13.11

Astro Zone 1, 3 Pin Time Switch, 1 On/Off & optional early off
- Q551.13.12

Astro Zone 2, 3 Pin Time Switch, 1 On/Off & optional early off
- Q551.13.13

Astro Zone 3, 3 Pin Time Switch, 1 On/Off & optional early off
- Q551.13.14

Astro Zone 4, 3 Pin Time Switch, 1 On/Off & optional early off
- Q551.14.11

Astro Zone 1, 3 Pin Time Switch, 2 On/Offs
- Q551.14.12

Astro Zone 2, 3 Pin Time Switch, 2 On/Offs
- Q551.14.13

Astro Zone 3, 3 Pin Time Switch, 2 On/Offs
- Q551.14.14

Astro Zone 4, 3 Pin Time Switch, 2 On/Offs
- Q553.13.11

Astro Zone 1, 4 Pin Time Switch, 1 On/Off & optional early off
- Q553.13.12

Astro Zone 2, 4 Pin Time Switch, 1 On/Off & optional early off
- Q553.13.13

Astro Zone 3, 4 Pin Time Switch, 1 On/Off & optional early off
- Q553.13.14

Astro Zone 4, 4 Pin Time Switch, 1 On/Off & optional early off
- Q553.14.11

Astro Zone 1, 4 Pin Time Switch, 2 On/Offs
- Q553.14.12

Astro Zone 2, 4 Pin Time Switch, 2 On/Offs
- Q553.14.13

Astro Zone 3, 4 Pin Time Switch, 2 On/Offs
- Q553.14.14

Astro Zone 4, 4 Pin Time Switch, 2 On/Offs



BLUETOOTH DIN RAIL TIME SWITCHES

Bluetooth is a wireless communication protocol that allows programming of the switch using the free APP available on Android and IOS smart phones and tablets. This works the same way as contactless bank cards, oyster travel cards and mobile payment systems. The program is setup on the APP and transfers to the switch when the smart device is held in close proximity.



SC2811PR04

Standard Bluetooth 2 Module 1 Channel, 7 day Timer, 100 Operations
Also available: **SC2821PR04** (as above with 2 channels)



- Daily and Weekly programming
- Switching capacity 16A per channel
- Zero-crossing, LED up to 600W
- Programmable via App (iOS and Android)
- 10 years battery reserve

Power Supply	230V AC, 50/60Hz
Programming	100 Operations
Display	LCD
Mounting	DIN
Current Rating	16A
Switching Capacity	10A Inductive@0.6pf Filament lamp 3000W Halogen lamp 3000W Fluorescent lamp uncompensated 2,600W Fluorescent lamp series compensated 2,600W Fluorescent lamp parallel compensated 1,300W Compact Fluorescent lamp 600W LED 230V AC 600W
Reserve	10 years
Switching Functions	ON/OFF, Pulse, Cycle, Random, Extra On/Off, Permanent On/Off
Memory Locations	100
Minimum Interval	1 min
Program Security	unlimited
Temperature Range	-30°C to +55°C
Enclosure	Self-extinguishing thermoplastic
Type of Protection	IP20 to DIN EN 60529
Dimensions	90 x 36 x 63 mm

- Daily and Weekly programming
- Astro (sunrise, sunset) program
- Switching capacity 16A per channel
- Zero-crossing, LED up to 600W
- Programmable via App (iOS and Android)
- 10 years battery reserve

Power Supply	230V AC, 50/60Hz
Programming	100 Operations
Display	LCD
Mounting	DIN
Current Rating	16A
Switching Capacity	10A Inductive@0.6pf Filament lamp 3,000W Halogen lamp 3,000W Fluorescent lamp uncompensated 2,600W Fluorescent lamp series compensated 2,600W Fluorescent lamp parallel compensated 1,300W Compact Fluorescent lamp 600W LED 230V AC 600W
Reserve	10 years
Switching Functions	Astro ON/OFF, Night ON/OFF, Extra On/Off, Permanent On/Off
Offset Astro Switching Time	+/- 90 min.
Memory Locations	100
Minimum Interval	1 min
Program Security	unlimited
Temperature Range	-30°C to +55°C
Enclosure	Self-extinguishing thermoplastic
Type of Protection	IP20 to DIN EN 60529
Dimensions	90 x 36 x 63 mm



SC2813PR04

Astro Bluetooth 2 Module 1 Channel, 7 day Timer, 100 Operations



- Daily and Weekly programming
- Astro (sunrise, sunset) program
- Switching capacity 16A per channel
- Zero-crossing, LED up to 600W
- Programmable via App (iOS and Android)
- 10 years battery reserve

Power Supply	230V AC, 50/60Hz
Programming	100 Operations
Display	LCD
Mounting	DIN
Current Rating	16A
Switching Capacity	10A Inductive@0.6pf Filament lamp 3,000W Halogen lamp 3,000W Fluorescent lamp uncompensated 2,600W Fluorescent lamp series compensated 2,600W Fluorescent lamp parallel compensated 1,300W Compact Fluorescent lamp 600W LED 230V AC 600W
Reserve	10 years
Switching Functions	Astro ON/OFF, Night ON/OFF
Offset Astro Switching Time	+/- 90 min.
Memory Locations	100
Minimum Interval	1 min
Program Security	unlimited
Temperature Range	-30°C to +55°C
Enclosure	Self-extinguishing thermoplastic
Type of Protection	IP20 to DIN EN 60529
Dimensions	90 x 36 x 63 mm



SC2823PR04

Astro Bluetooth 2 Module 2 Channel, 7 day Timer, 100 Operations





NFC DIN RAIL TIME SWITCHES

NFC (Near Field Communication) is a wireless communication protocol that allows you to program the switch using the free Sangamo Connect app on an Android NFC Smart phone.

This works the same way as contactless bank cards, oyster travel cards and mobile payment systems.

You set the program up on the app and hold the phone next to the switch to read, write or transfer programming times.



72113NFC

Standard NFC 2 Module 1 Channel, 7 day Timer, 56 Operations
Also available: **72213NFC** (as above with 2 channels)



- Volt-free 16A changeover contact
- 56 memory locations
- Standard programming
- Works with Android NFC phones for programming
- Battery Reserve: 10 years

Power Supply	230V AC, 50/60Hz
Programming	56 Operations
Display	LCD
Mounting	DIN
Current Rating	16A
Switching Capacity	10A Inductive@0.6pf
	Filament lamp 2,000W
	Halogen lamp 2,000W
	Fluorescent lamp uncompensated 1,000W
	Fluorescent lamp series compensated 1,000W
Reserve	Fluorescent lamp parallel compensated 550W
	Compact Fluorescent lamp 200W
	LED 230V AC 200W
Reserve	10 years
Switching Functions	ON/OFF, Pulse, Extra On/Off, Permanent On/Off
Memory Locations	56
Minimum Interval	1 min
Program Security	unlimited (E2-PROM)
Temperature Range	-30°C to +55°C
Enclosure	Self-extinguishing thermoplastic
Type of Protection	IP20 to DIN EN 60529
Dimensions	90 x 36 x 63 mm

- Volt-free 16A changeover contact
- 4 memory locations
- Basic Astro programming
- Works with Android NFC phones for programming
- Battery Reserve: 10 years

Power Supply	230V AC, 50/60Hz
Programming	4 Operations
Display	LCD
Mounting	DIN
Current Rating	16A
Switching Capacity	10A Inductive@0.6pf Filament lamp 2,000W Halogen lamp 2,000W Fluorescent lamp uncompensated 1,000W Fluorescent lamp series compensated 1,000W Fluorescent lamp parallel compensated 550W Compact Fluorescent lamp 200W LED 230V AC 200W
Reserve	10 years
Switching Functions	Astro ON/OFF, Night ON/OFF
Offset Astro Switching Time	+/- 90 min.
Memory Locations	4
Minimum Interval	1 min
Program Security	unlimited (E2-PROM)
Temperature Range	-30°C to +55°C
Enclosure	Self-extinguishing thermoplastic
Type of Protection	IP20 to DIN EN 60529
Dimensions	90 x 36 x 63 mm



72102NFC

Astro NFC 1 Module 1 Channel, 24 hr Timer, 4 Operations



- Volt-free 16A changeover contact
- 56 memory locations
- Astro programming
- Works with Android NFC phones for programming
- Battery Reserve: 10 years

Power Supply	230V AC, 50/60Hz
Programming	56 Operations
Display	LCD
Mounting	DIN
Current Rating	16A
Switching Capacity	10A Inductive@0.6pf Filament lamp 2,000W Halogen lamp 2,000W Fluorescent lamp uncompensated 1,000W Fluorescent lamp series compensated 1,000W Fluorescent lamp parallel compensated 550W Compact Fluorescent lamp 200W LED 230V AC 200W
Reserve	10 years
Switching Functions	Astro ON/OFF, Night ON/OFF, Extra On/Off, Permanent On/Off
Offset Astro Switching Time	+/- 90 min.
Memory Locations	56
Minimum Interval	1 min
Program Security	unlimited (E2-PROM)
Temperature Range	-30°C to +55°C
Enclosure	Self-extinguishing thermoplastic
Type of Protection	IP20 to DIN EN 60529
Dimensions	90 x 36 x 63 mm



72103NFC

Astro NFC 2 Module 1 Channel, 7 day Timer, 56 Operations
Also available: **72203NFC** (as above with 2 channels)





DIN RAIL TIME SWITCHES

All Sangamo's DIN Rail mountable time switches are designed for 35mm "Top Hat" rail. Switches come in 1, 2 or 4 modules, each module is 17.5mm wide, which fits the required width in the DIN enclosure.

Using the 25195 USB Hub and Easy Vue software or 25196 USB Hub with bluetooth and connect app programs can be transferred to a 25193 data key and then to one or multiple switches. 1 module switches do not require a Data Key as the fascia can be removed and slotted into the Hub directly.

Pulse Programming

Short term switching at fixed times. Ideal for school bells, sirens, churches, etc. A burst from 1 second up to 59m 59s can be programmed into the unit. This feature appears on all standard switches.



71111

Standard 1 Module 1 Channel, 7 Day, 46 Operations



- Volt-free 16A changeover contact
- 46 memory locations
- Standard programming
- Works with key programming & EasyVUE connect (Key & hub are optional extras)
- Battery Reserve: 10 years

Power Supply	230V AC, 50/60Hz
Programming	46 Operations
Display	LCD
Mounting	DIN
Current Rating	16A
Switching Capacity	6A Inductive@0.5pf
	Filament lamp 1,000W
	Halogen lamp 1,000W
	Fluorescent lamp w/ electronic lamp ballast 500W
	Fluorescent lamp w/ convent. lamp ballast 100W
Reserve	10 years
	LED 230V AC 50W
Switching Functions	ON; OFF; Pulse, Permanent On / Off
Pulse Length	0001 up to 59:59 mm:ss
Memory Locations	48
Minimum Interval	1 min
Program Security	unlimited (E2-PROM)
Temperature Range	-30°C to +55°C
Enclosure	Self-extinguishing thermoplastic
Type of Protection	IP20 to DIN EN 60529
Class of Protection	2 when installed according to regulations
Dimensions	90 x 36 x 63 mm

- Volt-free 16A changeover contact
- 46 memory locations
- Module timer
- Standard programming
- Works with key programming & EasyVUE connect (Key & hub are optional extras)
- Battery Reserve: 10 years

Power Supply	230V AC, 50/60Hz
Programming	46 Operations
Display	LCD
Mounting	DIN
Current Rating	16A
Switching Capacity	6A Inductive@0.6pf Filament lamp 1,000 W Halogen lamp 1,000W Fluorescent lamp with electronic lamp ballast 500W Fluorescent lamp conventional lamp ballast 400W Compact Fluorescent lamp 300W LED 230V AC 300W
Reserve	10 years
Switching Functions	ON; OFF; Pulse; Permanent On/Off
Pulse Length	00:01 up to 59:59 mm:ss
Memory Locations	46
Minimum Interval	1 min
Program Security	unlimited (E2-PROM)
Temperature Range	-30° C to +55° C
Enclosure	Self-extinguishing thermoplastic
Type of Protection	IP20 to DIN EN 60529
Class of Protection	2 when installed according to regulations
Dimensions	90 x 36 x 63 mm

**72112**

Standard 2 Module, 1 Channel, 7 Day, 46 Operations

Also available: **72212** (as above with 2 channels)

- Volt-free 16A changeover contact
- 300 memory locations
- Standard programming
- Works with key programming & EasyVUE connect (Key & hub are optional extras)
- Battery Reserve: 6 years
- Extra functions - special weekly programs, channel key assignment

Power Supply	230V AC, 50/60Hz
Programming	300 Operations
Display	LCD
Mounting	DIN
Current Rating	16A
Switching Capacity	10A Inductive@0.6pf Filament lamp 2,000W Halogen lamp 2,000W Fluorescent lamp uncompensated 1,000VA Fluorescent lamp series compensated 1,000VA More Switching Capacity info available upon request
Reserve	6 years
Switching Functions	ON; OFF; Pulse; Cycle; Extra On/Off, Permanent On/Off
Pulse length - Pulse function (switching time)	00:01 up to 59:59 mm:ss
Pulse Length - Timer (man. switching)	0:00:01 up to 9:59:59 h:mm:ss
Memory Locations	300
Minimum Interval	1 min
Temperature Range	-30° C to +55° C
Enclosure	Self-extinguishing thermoplastic
Type of Protection	IP20 to DIN EN 60529
Class of Protection	2 when installed according to regulations
Dimensions	90 x 36 x 63 mm

**25162**

Standard 2 Module 1 Channel, Yearly Timer, 300 Operations





26404

Standard 4 Module 4 Channel, 7 Day Timer, 300 Operations



- Volt-free 16A changeover contact
- 300 memory locations
- Module timer: Multiple applications from one switch
- Standard programming
- Works with key programming & EasyVUE connect (Key & hub are optional extras)
- Battery Reserve: 10 years
- Extra functions - Channel key assignment, accepts external inputs

Power Supply	230V AC, 50/60Hz
Programming	300 Operations
Display	LCD
Mounting	DIN
Current Rating	16A
Switching Capacity	10A Inductive@0.6pf Filament lamp 2,000W Halogen lamp 2000W Fluorescent lamp uncompensated 1,000VA Fluorescent lamp series compensated 1,000VA More Switching Capacity info available upon request
Reserve	10 years
Switching Functions	ON; OFF; Pulse; Cycle; Permanent On/Off
Pulse length - Pulse function (switching time)	00:01 up to 59.59 mm:ss
Pulse Length - Timer (man. switching)	0:00:01 up to 9:59:59 h:mm:ss
Memory Locations	300
Minimum Interval	1 min
Temperature Range	-30° C to +55° C
Enclosure	Self-extinguishing thermoplastic
Type of Protection	IP20 to DIN EN 60529
Class of Protection	2 when installed according to regulations
Dimensions	90 x 72 x 63 mm



11002

Standard 1 Module 24 hr Timer



- Simple programming with 15 min captive segments
- Simple to read switching
- Manual override switch 'Permanent OFF/ Automatic/Permanent ON'
- 100 hour battery reserve

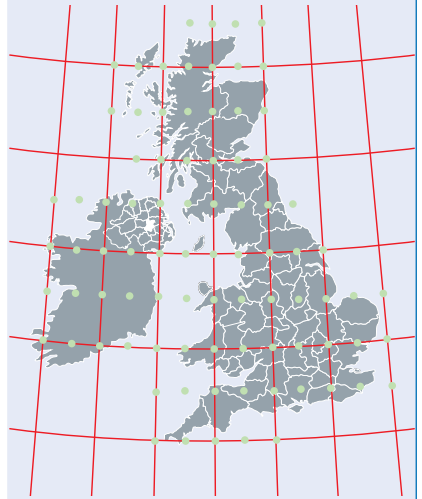
Power Supply	230V AC, 50/60Hz
Programming	Daily
Display	LCD
Mounting	DIN
Current Rating	16A, 2.5amp Inductive @0.6pf
Switching Capacity	Filament lamp Halogen lamp 2,000W Fluorescent lamp uncompensated 1,000W Fluorescent lamp series compensated 750W LED (230 V-) / CFL 200W
Reserve	100 hrs
Switching Functions	ON, OFF, Permanent On/Off
Switching Operation	96 per day
Program Security	unlimited (E2-PROM)
Minimum Interval	15 min
Temperature Range	-5° C to +50° C
Enclosure	Self-extinguishing thermoplastic
Type of Protection	IP20 to DIN EN 60529
Dimensions	65 x 18 x 90 mm



These switches automatically adjust their sunset & sunrise times based on where you are. This can be set one of two ways;

LOCATION selecting the nearest city to you

POSITION by inputting your co-ordinates;
Setting the nearest whole longitude & latitude.



ASTRO/SUNTRACKER

71101 Astro 1 Module 1 Channel, 7 Day, 60 Operations

72101 Astro 2 Module 1 Channel, 7 Day, 60 Operations

72201 Astro 2 Module 2 Channel, 7 Day, 60 Operations

Power Supply	230V AC, 50/60Hz
Programming	60 Operations
Display	LCD
Mounting	DIN
Current Rating	16A
Switching Capacity	Filament lamp 2,000W Halogen lamp 2,000W Fluorescent lamp uncompensated 1,000VA Fluorescent lamp series compensated 1,000VA more Switching Capacity info available upon request
Reserve	6 years
Switching Functions	Astro ON/OFF, Night ON/OFF, Extra ON/OFF
Memory Locations	60
Offset Astro Switching Time	+/- 90mins
Minimum Interval	1 min
Program Security	unlimited (E2-PROM)
Temperature Range	0°C to 50°C
Enclosure	Self-extinguishing thermoplastic
Type of Protection	IP20 to DIN EN 60529
Class of Protection	2 when installed according to regulations
Dimensions	71101: 45x17.5x58mm. 72101, 72201: 45 x 35 x 58 mm.

- Volt-free 16A changeover contact
- 60 memory locations
- Astro timer
- Simple programming
- Works with key programming & EasyVUE (Key & hub are optional extras)
- Battery Reserve: 6 years
- Key not required for 71101





PANEL TIME SWITCHES

The panel time switch range can also be surface or din rail mounted.

The analogue 16000 range are simple to use and are a cost effective timer. They are extremely easy to set, change and to view programmes. They are often used where multiple people are involved in setting and changing programs. For instance in church halls and similar applications. They are also fitted where the potential user is not comfortable using the latest digital technology, preferring the traditional pin type setting.

The 28000 range provides additional functionality in the same format to suit additional programming requirements.

Pulse Programming

Short term switching at fixed times. Ideal for school bells, sirens, churches, etc. A burst from 1 second up to 59m59s can be programmed into the unit. This feature appears on all standard switches.



16621

Standard Panel 24 hr Timer (with battery)

Also available: **16622** (as above with no battery)



- Voltage free 16A changeover contact
- Suitable for Surface, Panel or Din rail mounting
- 200 hour battery reserve (16621 only)
- Programming by 10 min captive segments
- Manual override with automatic return to program
- Contact status display
- Optional accessory 95583 panel kit is available

Power Supply	230V AC, 50/60Hz
Programming	24 hour
Display	Analogue
Mounting	Optional
Current Rating	16A
Switching Capacity	Resistive load 16A 250V Voltage free inductive load (cos = 0.6) 3A 250V Incandescent lamp 1000W 250V Squirrel-cage motor 350W 250V
Reserve	200 hour
Switching Operations	144 per day
Temperature Range	-10°C to +50°C
Storage Temperature	-20°C to +60°C
Connection by cage terminals, section of conductors	1 to 6 mm ²
Insulation class	2
Protection	IP20
Dimensions	72 x 72 x 49 mm
Complies with	BS EN 60730

- Volt-free 16A changeover contact
- 46 memory locations
- Works with key programming & EasyVUE connect (Key & hub are optional extras)
- Battery Reserve: 10 years
- Comes ready for panel or surface mounting
- Require accessory 95587 for DIN rail mounting

Power Supply	230V AC, 50/60Hz
Programming	7 Day
Display	LCD Back-lit
Mounting	Optional
Current Rating	16A
Switching Capacity	16A / 250V - at cos = 1 6A with inductive load cos = 0.6 Filament Lamp, Halogen Lamp 400W Fluorescent Lamp with electron. lamp ballast 100W Fluorescent Lamp with convent. lamp ballast 100W LED (230V~)/CFL 50W
Reserve	10 years
Switching Functions	ON; OFF; Pulse, Permanent ON/Off
Pulse length - Pulse function (switching time)	0001 up to 59.59 mm:ss
Pulse Length - Timer (man. switching)	0.00:01 up to 9:59:59 h:mm:ss
Memory Locations	46
Minimum Interval	1 min
Temperature Range	-30°C to +55°C
Enclosure	Self-extinguishing thermoplastic
Type of Protection	IP20 to DIN EN 60529
Class of Protection	2 when installed according to regulations
Switchboard flush mounting	Retaining clip in 68 x 68mm cutout
Dimensions	72 x 72mm



23871

Standard Panel 1 Channel 7 Day Timer
Also available: **23872** (as above with 2 channels)

50W LED

5 YEAR GUARANTEE

- Voltage free 16A changeover contact
- Suitable for Surface, Panel or Din rail mounting
- 200 hour battery reserve (16921 only)
- Programming by 1 hour captive segments
- Manual override with automatic return to program
- Contact status display
- Optional accessory 95583 panel kit is available

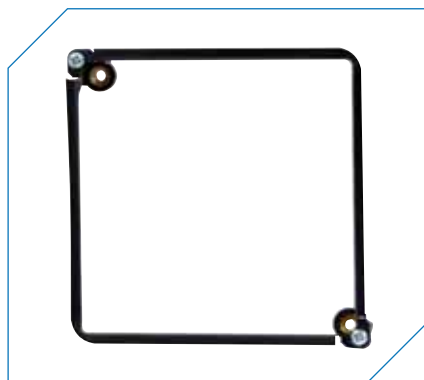
Power Supply	230V AC, 50/60Hz
Programming	7 Day
Display	Analogue
Mounting	Optional
Current Rating	16A
Switching Capacity	Resistive load 16A 250V Voltage free inductive load (cos = 0.6) 3A 250V Incandescent lamp 1000W 250V Squirrel-cage motor 350W 250V
Reserve	200 hour
Switching Operations	168 per week
Temperature Range	-10°C to +50°C
Storage Temperature	-20°C to +60°C
Connection by cage terminals, section of conductors	1 to 6 mm ²
Insulation class	2
Protection	IP20
Dimensions	72 x 72 x 49 mm
Complies with	BS EN 60730



16921

Standard Panel Mount 7 Day Timer with Battery
Also available: **16922** (as above with no battery)

5 YEAR GUARANTEE



95583

Panel Mounting Kit

- For Products: 16621, 16622, 16921, 16922
- An alternative to the supplied backbox



95587

Panel Converting Mounting Kit

- For Products: 23871, 23872



143541

Module Enclosure

- 4-6 module
- IP40 protection
- 145 x 165 x 72mm
- Surface mounted
- Integral DIN-rail
- Compatible with 26404



143602

Module Enclosure

- 1-2 module
- IP40 protection
- 51 x 139 x 60mm
- Surface mounted
- Integral DIN-rail
- Compatible with 1 or 2 module:
11002, 71111, 72112, 72212,
72113NFC, 72213NFC, 25162, 71101,
72201, 72102NFC, 72103NFC,
72203NFC



143603

Module Enclosure

- 3-4 module
- IP40 protection
- 88 x 139 x 60mm
- Surface mounted
- Integral DIN-rail
- Suitable for 2 module product applications where Contactor will be used.

**110469****FD930 Conduit Box Time Switch**

- Will accept 3/4in or 20mm conduit
- Fixings supplied
- Robust steel construction with black enamelled finish
- Compatible with S250, Q550 & E850 ranges

**25193****Programming Data Key**

- Data key for use with digital time switches that have key programming feature
- Used to load settings on single or multiple sites where the same product type is used
- Compatible with models ; 72101, 72201, 72112, 72212, 23871, 23872, 25162, 26404
- Not required for 71101, 71111

**25195****Programming Interface**

- The Easy Vue Hub can be used to program your switch with a blank programming key via PC, using the Easy-Vue software
- Compatible with models ; 71101, 72101, 72201, 71111, 72112, 72212, 23871, 23872, 25162, 26404

**25196****Programming Interface**

- The Easy Vue Hub with Bluetooth can be used to program your switch with a blank programming key via PC, using the Easy-Vue software, or Android smartphone, using the Sangamo Connect app
- Compatible with models ; 71101, 72101, 72201, 71111, 72112, 72212, 23871, 23872, 25162, 26404



PRODUCT AWARENESS TRAINING DAYS

Held in the new purpose built showroom at our Redditch offices the training days are aimed at electrical contractors and wholesalers who would like to add fire and security equipment to their product portfolio but feel they do not have the core knowledge to do this with confidence. Most aspects of security will be covered including CCTV, Access Control and Essentials with a separate training day dedicated entirely to Fire Protection products.



Elite Security Products
Unit 7, Target Park,
Shawbank Road, Lakeside,
Redditch B98 8YN
Tel: +44 (0) 1527 51 51 50
Fax: +44 (0) 1527 51 51 43
info@espuk.com
www.espuk.com

Elite Security Products Ireland
Unit 1B, Three Rock Road,
Sandyford Industrial Estate,
Dublin, Ireland
Tel: +353 (1) 5577 290
Fax: +353 (1) 2811 224
sales@espi.ie
www.espi.ie

Scolmore Dubai
Lake Central Tower,
Office 1803, Business Bay,
Dubai, UAE
UAE Office: +971 4589 6552
Mob: +971 52 451 1164
sales@scolmoredubai.com
www.scolmoredubai.com

E&OE - Errors and omissions
excepted. ESPCAT01

A Scolmore GROUP
● ● ● ● ● Company