April 2013

Fire and Security Catalogue 2013

Simply reliable

www.espuk.com

NEW

This catalogue sees the introduction of new CCTV and EAP products enhancing our ever expanding product lines. These new products, as always, have been developed to reflect the latest technological advances whilst maintaining sustainable levels of reliability.

DIGIVIEW

Digiview4i Pro and Digiview8i Pro

The latest release of Digiview branded CCTV systems features advanced technology not seen before. Improved clarity through 700TVL cameras, a silent operation DVR and Wi-Fi network connectivity allows the Digiview i Pro to maintain its market leading status in this popular format. See pages 12 and 13.

PowerCat

4, 8 and 16 Channel Power Video Hubs

PowerCat power video hubs represent a revolution in CCTV cabling. Available in 4, 8 and 16 channel variants they support power to the cameras and video signal from the cameras up to 300m across Cat5e or Cat6 cable. See page 32.

EZ-WF

Wirefree Video Signal Transmitter

The EZ-WF is designed to provide a digital wire free solution for the transmission of a video signal where a cable run would be expensive or troublesome. The transmitter and receiver are factory "paired" making for a simple installation. See page 33.

NightHawk® LED

NHF Low Energy LED Flood Lights

CE certificated to meet EMC emission limitations EN55015:2006 A1:2007 A2:2009

Build quality is key to the NHF range. Ultra reliable drivers and LEDs combined with a superb weather resistant finish and stainless steel fixings make the NHF a perfect choice for a wide range of floodlighting applications. See pages 44 and 45.

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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 now includes cameras with up to 700TVL resolution using the amazing Sony Effio-E image processor which allows precision set up in the most demanding situations.

A2
A3
INTEGRA
CH1
CH2
CH3
CH5
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IRDOME pro

Integra 16 - 16 Channel Monitor and DVR System

- 1TB hard drive
- Full network capability
- Auto connect for iPhone/Android remote viewing
- Triplex function
- E-zoom and PIP

Integra 8 - 8 Channel Monitor and DVR System

- 1TB hard drive
- Full network capability
- Auto connect for iPhone/Android remote viewing
- Triplex function
- E-zoom and PIP

Integra 4 - 4 Channel Monitor and DVR System

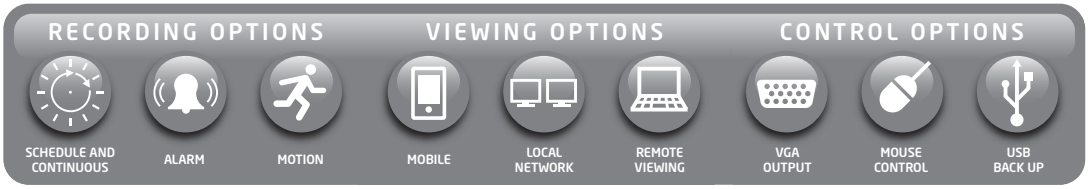
- 500 GB hard drive
- Full network capability
- Auto connect for iPhone/Android remote viewing
- Triplex function
- E-zoom and PIP

Integra offers a compact attractive CCTV solution by combining the latest DVR technology with a high quality TFT display. An intelligent user interface and advanced network and remote viewing capability makes Integra the right choice in even the most demanding applications.

SYSTEM
- Triplex operation (record, view live, view remotely at the same time)
- Full remote viewing capability via fixed or dynamic IP address
- Password protection
- iPhone, Android remote viewing via APP
- E-mail alert of trigger events
- Integral PTZ with most popular protocols
- Complete with remote control

DISPLAY
- TFT monitor
- View in single channel, quad or multi screen mode
- Monitor standby facility
- Separate control of brightness and contrast
- Separate control of colour on each channel

RECORDING
- Record all cameras in full screen all the time
- Search recordings by event or specified time and date
- Integra 8 and Integra 16 - integral 1TB hard drive
  Integra 4 - integral 500GB hard drive
- Record by schedule / event / on-screen motion or external trigger
- Back up of recorded data to USB stick or external R/W CD
- Up to 8 channels of audio



	INTEGRA 4 / INTEGRA 8	INTEGRA 16
Video Format	PAL	PAL
Video Format	H.264 Baseline Compression	H.264 Baseline Compression
Video Input	Integra 4 - BNC 4 Input / 1 Output Integra 8 - BNC 8 Input / 1 Output	BNC 16 Input / 1 Output
Audio Format	G.726 8Kx16bit ADPCM Mono	G.726 8Kx16bit ADPCM Mono
Audio Input	Integra 4 - RCA 4 Input / 1 Output Integra 8 - RCA 8 Input / 1 Output	RCA 8 Input / 1 Output
Alarm Type	Motion detection, Sensor Input, Relay Output, Video Loss	Motion detection, Sensor Input, Relay Output, Video Loss
Sensor In/Out	4CH Input / 1CH Output	8CH Input / 1CH Output
Display Frame Rate	Each Channel PAL 25 FPS, NTSC 30 FPS	Each Channel PAL 25 FPS, NTSC 30 FPS
LCD Monitor	15" Colour LCD, 1024x768, 4:3, 450:1, 150nit, CCFL	19" Colour LCD, 1024x768, 4:3, 450:1, 150nit, CCFL
Playback Resolution (CH1)	25fps/(CIF) 25fps/(halfD1),12fps/D1	25fps/(CIF) 12.5fps/(halfD1),6.25fps/D1
Record Frame Rate	100FPS@CIF100FPS@halfD150FPS@D1	200FPS@ CIF,100FPS@halfD1,50FPS@D1
Record method	Power-on Auto Record, Scheduled Record (Manual Record, Motion Detection, Sensor Trigger) Support Privacy Mask	Power-on Auto Record, Scheduled Record (Manual Record, Motion Detection, Sensor Trigger) Support Privacy Mask
HDD Interface	SATA Interface support 1Tb	SATA Interface support 1Tb
Network Protocol	TCP-IP/ DHCP / DNNS / PPPoE / E-Mail	TCP-IP/ DHCP / DNNS / PPPoE / E-Mail
Network Function	IE Browser Live Monitor, Configuration, Download Video Mobile Phone Surveillance	IE Browser Live Monitor, Configuration, Download Video Mobile Phone Surveillance
USB 2.0 Interface	Mouse / Portable Mobile HDD/ Flash Drive/ DVD Burner/ Firmware Upgrade	Mouse / Portable Mobile HDD/ Flash Drive/ DVD Burner/ Firmware Upgrade
Playback Method	Normal Play, Fast Forward, Rewind, Single Step	Normal Play, Fast Forward, Rewind, Single Step
Network Interface	RJ45 10M/ 100M Ethernet Auto Detect	RJ45 10M/ 100M Ethernet Auto Detect
PTZ Protocol	PELCO-P, PELCO-D	PELCO-P, PELCO-D
Video Backup	AVI	AVI
Power Adapter	DC 12V Adaptor	DC 12V Adaptor
Power Consumption	10~15W	10~15W
Operating Temperature	0~+40°C	0~+40°C
Operating Humidity	10%~90% RH	10%~90% RH
Dimensions	360 x 360 x 160mm (WHD) inc. stand/base	462 x 405 x 190mm (WHD) inc. stand/base

INTEGRA 4K1

Integra 4 - 4 channel monitor and DVR with 500GB HD plus 4 x IRCAM40 external cameras, 4 x CAB-20 cables and 1 x CPS4 boxed power supply.

- 500 GB hard drive
- Full network capability
- Auto connect for iPhone/Android remote viewing
- Triplex function
- E-zoom and PIP

INTEGRA 4K2

Integra 4 - 4 channel monitor and DVR with 500GB HD plus 4 x DOMEVF internal dome cameras, 4 x CAB-20 cables and 1 x CPS4 boxed power supply.

- 500 GB hard drive
- Full network capability
- Auto connect for iPhone/Android remote viewing
- Triplex function
- E-zoom and PIP

INTEGRA 8K1

Integra 8 - 8 channel monitor and DVR with 1Tb HD plus 8 x IRCAM40 external cameras, 8 x CAB-20 cables and 1 x CPS9 boxed power supply.

- 1TB hard drive
- Full network capability
- Auto connect for iPhone/Android remote viewing
- Triplex function
- E-zoom and PIP

INTEGRA 8K2

Integra 8 - 8 channel monitor and DVR with 1Tb HD plus 8 x DOMEVF internal dome cameras, 8 x CAB-20 cables and 1 x CPS9 boxed power supply.

- 1TB hard drive
- Full network capability
- Auto connect for iPhone/Android remote viewing
- Triplex function
- E-zoom and PIP

BDeye - Combination CCTV Access Control System

The BDeye is a combined CCTV and video door entry solution in one small high design package ideally suited for the executive home or modern office. At the centre of the system is an 8" TFT monitor with a built in full feature DVR. The monitor feeds power to, and accepts video signals from, up to 4 internal or external CCTV cameras.

- 8" clear TFT monitor
- Built in slimline DVR
- 500GB hard drive
- LAN connection for remote viewing
- Touch panel controls
- High gloss white or black finish
- Desk or wall mounted
- Plug and play DIN cables
- 4 channel quad display
- Remote viewing via App for iPhone and Android
- USB mouse control
- USB memory stick for data backup
- Up to two optional video entry call points
- Day/night camera with IR illumination
- Simple set up and operation

BDeye CAM

Additional camera for BDeye c/w 15m Cable

BDeye VDE

Video door entry call point for BDeye c/w 15m cable

BDeye CCab / BDeye VCab

BDeye CCab -
Additional 15m cable for BDeye Cam

BDeye VCab -
Additional 15m cable for DBeye VDE

Design Features

8" clear TFT monitor

500GB hard drive

LAN connection for remote viewing

Touch panel controls

High gloss white or black finish

Desk or wall mounted

Day/night camera with IR illumination

Up to two video entry call points

Plug and play DIN cables

Remote viewing via App for iPhone and Android

SYSTEM

Control system	LINUX
System resources	Triplex , supports simultaneous recording, video playback and network & mobile operations
Operation interface	User-friendly menu interface
User interface	Panel touch button and remote control
Video protocol	H.264
Audio protocol	G.711A

VIDEO

Video input	4 x camera plus 2 x video door entry
Video output	One way
Preview resolution	D1
Video recording	D1, HD1, CIF, QCIF (selectable options)
Image division	Single or quad screen display
Recording	Scheduled, Motion detection or Visitor call recording
On screen display	Channel, Time, Recording and Alarm information

AUDIO

Audio input	Two-way
Audio output	One way
VDE audio	Full duplex audio

HARD DISK

Hard disk	500GB built-in one SATA interface, 2.5 inch hard MAX 1Tb

VIDEO RECORDING AND PLAYBACK

Video recording mode	Video recording by manual, schedule, motion detection, sensor and visitor call
Multi-channel playback	Four channel quad or single channel

VIDEO DOOR PHONE FUNCTIONS

Calling	Two channel
Video recording	Visitor calling and video recording
Unlocking	Electric lock release function

INTERFACE

Networking interface	One RJ45 10M/100M network interface
Camera interface	Four 6-core mini din video (Max 80M)
VDE interface	Two 4-core mini din video (Max 80M)
Alarm interface	One 5-core
AV output interface	One AV 3.5

POWER SUPPLY

Video call point	Four way camera powered by integral central power supply
Outdoor station	Two way outdoor station powered by integral central power supply

SPECIFICATIONS

Power supply	DC +12V 4.5A
Screen	8" TFT-LCD
Resolution	800x600
Temperature Range	-10°c - +70°c
Dimensions	250 × 210 × 35mm
Installation methods	Desktop or wall mounting options

CAMERA

Sensor	1/3" LG CCD
Effective Pixel	500 (H) x 582 (V)
Resolution Ratio	720x576
Frame	PAL: 1-25 fps
Electronic shutter speed	1/60 - 1/100,000 S (NTSC)
Horizontal resolution	420TVL
Lens	3.6MM
IR viewing distance	10m
Power supply	DC 12V
Operation Current	220mA
Operation Temperature	Indoor/outdoor, -10°c - 60°c
Weatherproofing	IP55 rated

Digiview4i Pro - 4 Channel Networkable CCTV Systems

NEW

The latest release of Digiview branded CCTV systems features advanced technology not seen before. Improved clarity through 700TVL cameras, a silent operation DVR and Wi-Fi network connectivity allows the Digiview i Pro to maintain its market leading status in this popular format.

- 4 x 700TVL Day/Night cameras with 15m infra red illumination
- Silent fanless operation
- Integral hard drive (Digiview4iPro 500GB - Digiview8iPro 1TB)
- Remote monitoring via wired or Wi-Fi network (optional adaptor req.)
- Mobile monitoring with MEyePro Android or iPhone APP
- Triplex operation – Playback / Record / Remote view simultaneously
- VGA output (lead supplied)
- Four recording options – Continuous / Scheduled / Motion / Sensor
- USB back up of recordings for easy evidence transfer
- Mouse driven comprehensive user interface
- Quad / Sequence / Single channel viewing
- Individual channel set up (recording and display)

Digiview8i Pro - 8 Channel Networkable CCTV Systems

NEW

Digiview8i Pro offers the comprehensive capabilites of the Digiview4i Pro but with the opportunity to expand the system with up to four extra cameras.

Contents of Digiview4iPro
1 x 4 channel DVR
4 x 700TVL cameras
4 x 20m camera cable
1 x 5 way power supply
1 x 2GB USB stick
1 x 500GB hard drive (pre-installed)

Contents of Digiview8iPro
1 x 8 channel DVR
4 x 700TVL cameras
4 x 20m camera cable
1 x 5 way power supply
1 x 4 way power supply
1 x 2GB USB stick
1 x 1TB hard drive (pre-installed)

Digiview4iPro and Digiview8iPro

Camera Input	Digiview4i Pro - 4 Channel Digiview8i Pro - 8 Channel
Video Input	Digiview4i Pro - 4 x BNC Digiview8i Pro - 8 x BNC
Video Output	1VGA (1280x1024) +2 x BNC
Audio Input	1 x RCA
Audio Output	1 x RCA
Operating System	Embedded Linux OS
Internal HDD	Supports 1 SATA Device (HDDx1), upto 2TB
Serial Interface	RS-485
USB	2 x USB connectors
Dimension	250mm x 225mm x 45mm (L x W x H)
Weight (w/o HDD/DVD±RW)	1.0 Kg
Adaptor Input	100~240V, Output 12V 5A
Power Source	60 W
Display Speed	Digiview4i Pro - 100 fps (PAL) Digiview8i Pro - 200 fps (PAL)
Display Resolution (Pixel)	704 X 576 (PAL)
Recording Compression	H.264 main profile
Network Interface	10/100 Ethernet
Network Protocol	TCP/IP, PPPOE, DDNS, UPNP, FTP and NTP
Network Application	Windows XP/VISTA/7/8 (PC Client system)
Network 3G / GPRS	Windows mobile; iPhone; Blackberry; Symbian; Android system and 3G
Motion Detection	Detected Frames: Unlimited / Channel Sensitivity: 6 levels for each channel Area: 192 (16x12) surveyed area, Programmable individually
DVR/OSD Control GUI	16-bit True Color
DVR/OSD Control Languages	English, French, Portugal, Russia, Italian, Spanish, Thai, Greek, Japanese, German, Turkish, Polski , Finnish and Farsi.Chinese (28 Languages)
DVR/OSD Camera Title	English/number
DVR/OSD Mouse	YES
DVR/OSD Remote Controller	IR Remote Control
DVR/OSD System Upgrade	via USB / Network
DVR/OSD Pan/Tilt/Zoom Control	Control From RS485 Interface

Cameras

Camera Sensor	1/3.3" Color CMOS
Resolution	700 TVL
Lens	3.6mm Fixed
Effective Pixels	720 x 576
LED Quantity	24pcs
IR Range	Upto 15m
Minimum Illumination	0.01 Lux / F1.2, 0 Lux (IR on)
Gamma	0.45 (AGC off)
Scanning System	2:1 Interlace
Sync System	Interior
Back Light Compensation	ON
White Balance	Auto
Gain Control	Auto
ICR	Removable IR Cut Filter
Video Output	1 Vp-p 75 Ohm, F-BNC Connector
Input Voltage	DC12V +/- 10%
Input Current	90mA (IR off) / 270mA (IR on)
Operating Temperature	-10°C to +45°C
Operating Humidity	80% RH

TFT 19 - 19" LCD TFT CCTV Monitor

- Full composite video input via VGA or BNC
- Sleek black design
- Anti-Glare technology
- Loop out facility

Panel Type	19"(5:4) LCD
Video Signal	Video Input x 1 (BNC); S-video x 1
Audio Signal	RCA Jack x 2 (L/R)
VGA Input	15 pin D-Sub (Analog RGB) for VGA Input
Resolution	SXGA (1280x1024)
Contrast	500:1 Typical
Brightness	350 cd/m2 Typical
Viewing Angle	H: 160 degrees - V: 150 degrees
Screen Control	OSD Multi-language Menu
Response Time	6ms Typical
Power Supply	DC 12V Adaptor Supplied, AC100V~240V
Dimensions (mm)	360H x 425L x 65D
Weight (kg)	4.2kg

TFT 17 - 17" LCD TFT CCTV Monitor

- Full composite video input via VGA or BNC
- Sleek black design
- Anti-Glare technology
- Loop out facility

Panel Type	17"(5:4) LCD
Video Signal	Video Input x 1 (BNC); S-video x 1
Audio Signal	RCA Jack x 2 (L/R)
VGA Input	15 pin D-Sub (Analog RGB) for VGA Input
Resolution	SXGA (1280x1024)
Contrast	450:1 Typical
Brightness	350 cd/m2 Typical
Viewing Angle	H: 160 degrees - V: 150 degrees
Screen Control	OSD Multi-language Menu
Response Time	6ms Typical
Power Supply	DC 12V Adaptor Supplied, AC100V~240V
Dimensions (mm)	320H x 380L x 55D
Weight (kg)	3.4kg

TFT 15 - 15" LCD TFT CCTV Monitor

- Full composite video input via VGA or BNC
- Sleek black design
- Anti-Glare technology
- Loop out facility

Panel Type	15"(4:3) LCD
Video Signal	Video Input x 1 (BNC); S-video x 1
Audio Signal	RCA Jack x 2 (L/R)
VGA Input	15 pin D-Sub (Analog RGB) for VGA Input
Resolution	XGA (1024x768)
Contrast	350:1 Typical
Brightness	300 cd/m2 Typical
Viewing Angle	H: 160 degrees - V: 150 degrees
Screen Control	OSD Multi-language Menu
Response Time	8ms Typical
Power Supply	DC 12V Adaptor Supplied, AC100V~240V
Dimensions (mm)	280H x 350L x 55D
Weight (kg)	2.6kg

TFT 10 - 10" LCD TFT CCTV Monitor

- Full composite video input via VGA or BNC
- Sleek black design
- Anti-Glare technology

Panel Type	10"(4:3) LCD
Video Signal	Video Input x 1 (BNC); S-video x 1
Audio Signal	RCA Jack x 2 (L/R)
VGA Input	15 pin D-Sub (Analog RGB) for VGA Input
Resolution	XGA (1024x768)
Contrast	300:1 Typical
Brightness	300 cd/m2 Typical
Viewing Angle	H: 160 degrees - V: 150 degrees
Screen Control	OSD Multi-language Menu
Response Time	8ms Typical
Power Supply	DC 12V Adaptor Supplied, A C100V~240V
Dimensions (mm)	240H x 285L x 45D
Weight (kg)	1.2kg

700TVL PRO CAMERAS - SEE THE DIFFERENCE

In addition to the greatly enhanced clarity and detail afforded by a 700TVL image sensor the Pro camera range also features Sony Effio-E signal processing to further enhance and manage picture quality.

AUTOMATIC GAIN CONTROL (AGC)
Enhancement of the video output to provide the best image in low light conditions.

WIDE DYNAMIC RANGE (D-WDR)
Provides an even image balance where varying light conditions exist within the scene viewed.

BACK LIGHT COMPENSATION (BLC)
Enhances illumination of the foreground of a scene where strong backlight (eg. from an external door or window) is present.

DIGITAL NOISE REDUCTION (2DNR)
Fixes digital noise on the image caused by low light conditions or strong colours.

HIGH LIGHT CONTROL (HLC)
Automatic suppression and masking of very high light sources such as car head lights that would normally obscure number plates at night.

PRIVACY MASKING
Allows areas of the image to be partially or fully masked for legal or privacy reasons.

Sony Effio-E functions are all controlled via a convenient in-line menu selector and on-screen display.

Use of a local test monitor is recommended during installation (see page 34)

IRCAM200 Pro
External Day/Night Camera

- 700 TVL
- 6mm fixed lens
- Sony Effio-E image sensor
- OSD control button
- Up to 15m Infra Red illumination
- 12v DC 400mA (IR-on)
- Weatherproof IP66 rating

SONY Effio™ Ex-View HAD CCD II -960H

- DSP Sony Effio-E enhanced
- Resolution 700TVL
- Adaptive Tone Reproduction
- 2D Noise Reduction
- Exposure Control
- High Light Compensation

TVL	700TVL
Image sensor	Sony Ex-View HAD CCD II -960H
DSP	Sony Effio-E enhanced
Shutter speed	1/50-1/120,000S
Lens type	Fixed CS Mount Lens (f=6mm)
Minimum illumination	0.001 Lux/F1.2; 0 Lux (IR ON)
S/N ratio	More Than 52dB (AGC OFF)
White Balance	ATW
Operating temp	-20°C To +50°C
Dimensions	150mm(L) x 90mm(W) x 83mm(H)
Weight Approx	800g
Power consumption	IR on 400mA
Power consumption	IR off 120mA
IP Rating	IP66

IRCAM600 Pro
External Day/Night Camera

- 700 TVL
- 2.8-12mm varifocal lens
- Sony Effio-E image sensor
- OSD control button
- Up to 30m Infra Red illumination
- 12v DC 400mA (IR-on)
- Weatherproof IP66 rating

SONY Effio™ Ex-View HAD CCD II -960H

- DSP Sony Effio-E enhanced
- Resolution 700TVL
- Adaptive Tone Reproduction
- 2D Noise Reduction
- Exposure Control
- High Light Compensation

TVL	700TVL
Image sensor	Sony Ex-View HAD CCD II -960H
DSP	Sony Effio-E enhanced
Shutter speed	1/50-1/120,000S
Lens type	2.8-12mm Manual Vari-Focal Lens
Minimum illumination	0.001 Lux/F1.2; 0 Lux (IR ON)
S/N ratio	More Than 52dB (AGC OFF)
White Balance	ATW
Operating temp	-20°C To +50°C
Dimensions	150mm(L) x 90mm(W) x 83mm(H)
Weight Approx	1000g
Power consumption	IR on 400mA
Power consumption	IR off 120mA
IP Rating	IP66

IRCAM700 Pro
External Day/Night Camera

- 700 TVL
- 9-22mm varifocal lens
- Sony Effio-E image sensor
- OSD control button
- Up to 50m Infra Red illumination
- 12v DC 400mA (IR-on)
- Weatherproof IP66 rating

SONY Effio™ Ex-View HAD CCD II -960H

- DSP Sony Effio-E enhanced
- Resolution 700TVL
- Adaptive Tone Reproduction
- 2D Noise Reduction
- Exposure Control
- High Light Compensation

TVL	700TVL
Image sensor	Sony Ex-View HAD CCD II -960H
DSP	Sony Effio-E enhanced
Shutter speed	1/50-1/120,000S
Lens type	9-22mm Manual Vari-Focal Lens
Minimum illumination	0.001 Lux/F1.2; 0 Lux (IR ON)
S/N ratio	More Than 52dB (AGC OFF)
White Balance	ATW
Operating temp	-20°C To +50°C
Dimensions	155(L) x 100mm(W) x 92(H)mm
Weight Approx	1000g
Power consumption	IR on 400mA
Power consumption	IR off 120mA
IP Rating	IP66

IRCAM900 Pro
External Day/Night Camera

- 700 TVL
- 5-50mm varifocal lens
- Sony Effio-E image sensor
- OSD control button
- Up to 50m Infra Red illumination
- 12v DC 400mA (IR-on)
- Weatherproof IP66 rating

SONY Effio™ Ex-View HAD CCD II -960H

- DSP Sony Effio-E enhanced
- Resolution 700TVL
- Adaptive Tone Reproduction
- 2D Noise Reduction
- Exposure Control
- High Light Compensation

TVL	700TVL
Image sensor	Sony Ex-View HAD CCD II -960H
DSP	Sony Effio-E enhanced
Shutter speed	1/50-1/120,000S
Lens type	5-50mm Manual Vari-Focal Lens
Minimum illumination	0.001 Lux/F1.2; 0 Lux (IR ON)
S/N ratio	More Than 52dB (AGC OFF)
White Balance	ATW
Operating temp	-20°C To +50°C
Dimensions	185mm(L) x 105mm(H) x 95mm(H)
Weight Approx	800g
Power consumption	IR on 400mA
Power consumption	IR off 120mA
IP Rating	IP66

MINIDOME Pro
Internal / External Dome Camera

- 700 TVL
- 2.8mm fixed lens
- Sony Effio-E image sensor
- OSD control button
- 12v DC 120mA
- Weatherproof IP65 rating

TVL	700TVL
Image sensor	Sony Ex-View HAD CCD II -960H
DSP	Sony Effio-E enhanced
Shutter speed	1/50-1/120,000S
Lens type	Fixed Lens (f=2.8mm)
Minimum illumination	0.001 Lux/F1.2
S/N ratio	More Than 52dB (AGC OFF)
White Balance	ATW
Operating temp	-20°C To +50°C
Dimensions	94mm(ç) x 68mm(H)
Weight Approx	400g
Power consumption	120mA

SONY
Effio™
Ex-View HAD CCD II -960H

- DSP Sony Effio-E enhanced
- Resolution 700TVL
- Adaptive Tone Reproduction
- 2D Noise Reduction
- Exposure Control
- High Light Compensation

IRDOME Pro
Internal Day/Night Camera

- 700 TVL
- 4mm fixed lens
- Sony Effio-E image sensor
- OSD control button
- 12v DC 120mA

TVL	700TVL
Image sensor	Sony Ex-View HAD CCD II -960H
DSP	Sony Effio-E enhanced
Shutter speed	1/50-1/120,000S
Lens type	Built-in 4mm Fixed Lens
Minimum Illumination	0.001Lux / F1.2,0Lux (IR ON)
S/N Ratio	More Than 52dB (AGC OFF)
White Balance	ATW
Operating temp	-10°C To +45°C
Dimensions	95mm(ç) ×85mm(H)
Weight Approx	200g
Power Requirement	DC12V±10% & 400mA

SONY
Effio™
Ex-View HAD CCD II -960H

- DSP Sony Effio-E enhanced
- Resolution 700TVL
- Adaptive Tone Reproduction
- 2D Noise Reduction
- Exposure Control
- High Light Compensation

DOMEVF Pro
Internal / External Dome Camera

- 700 TVL
- 2.8-12mm varifocal lens
- Sony Effio-E image sensor
- OSD control button
- 12v DC 120mA

SONY Effio™ Ex-View HAD CCD II -960H

- DSP Sony Effio-E enhanced
- Resolution 700TVL
- Adaptive Tone Reproduction
- 2D Noise Reduction
- Exposure Control
- High Light Compensation

TVL	700TVL
Image sensor	Sony Ex-View HAD CCD II -960H
DSP	Sony Effio-E enhanced
Shutter speed	1/50-1/120,000S
Lens type	2.8-12mm Manual Vari-Focal Lens
Minimum illumination	0.001 Lux/F1.2
S/N ratio	More Than 52dB (AGC OFF)
White Balance	ATW
Operating temp	-20°C To +50°C
Dimensions	105mm(¢) x 70mm(H)
Weight Approx	500g
Power consumption	120mA
IP Rating	IP65

IRDOMEXT Pro
External Dome Camera

- 700 TVL
- 3.6mm fixed lens
- Sony Effio-E image sensor
- OSD control button
- Up to 8m Infra Red illumination
- 12v DC 400mA (IR-on)

SONY Effio™ Ex-View HAD CCD II -960H

- DSP Sony Effio-E enhanced
- Resolution 700TVL
- Adaptive Tone Reproduction
- 2D Noise Reduction
- Exposure Control
- High Light Compensation

TVL	700TVL
Image sensor	Sony Ex-View HAD CCD II -960H
DSP	Sony Effio-E enhanced
Shutter speed	1/50-1/120,000S
Lens type	Fixed Lens (f=3.6mm)
Minimum illumination	0.001 Lux/F1.2; 0 Lux (IR ON)
S/N ratio	More Than 52dB (AGC OFF)
White Balance	ATW
Operating temp	-20°C To +50°C
Dimensions	L160 x W124 x H110 (incl. bracket)
Weight Approx	500g
Power consumption	IR on 400mA
Power consumption	IR off 120mA
IP Rating	IP65

IRDOMEXTVF Pro
External Dome Camera

- 700 TVL
- 2.8-12mm varifocal lens
- Sony Effio-E image sensor
- OSD control button
- Up to 30M Infra Red illumination
- 12v DC 400mA (IR-on)
- Weatherproof IP66 rating

TVL	700TVL
Image sensor	Sony Ex-View HAD CCD II -960H
DSP	Sony Effio-E enhanced
Shutter speed	1/50-1/120,000S
Lens type	2.8-12mm Manual Vari-Focal Lens
Minimum illumination	0.001 Lux/F1.2; 0Lux (IR ON)
S/N ratio	More Than 52dB (AGC OFF)
White Balance	ATW
Operating temp	-20°C To +50°C
Dimensions	L178 x W138 x H129 (incl. bracket)
Weight Approx	800g
Power consumption	IR on 400mA
Power consumption	IR off 120mA
IP Rating	IP65

SONY® Effio™ Ex-View HAD CCD II -960H

- DSP Sony Effio-E enhanced
- Resolution 700TVL
- Adaptive Tone Reproduction
- 2D Noise Reduction
- Exposure Control
- High Light Compensation

IRDOME3XVF Pro
External Dome Camera

- 700 TVL
- 2.8 -12mm varifocal lens
- Sony Effio-E image sensor
- OSD control button
- Up to 10m Infra Red illumination
- 12v DC 400mA (IR-on)
- 3 axis mounting
- Vandal resistant

TVL	700TVL
Image sensor	Sony Ex-View HAD CCD II -960H
DSP	Sony Effio-E enhanced
Shutter speed	1/50-1/120,000S
Lens type	2.8-12mm Manual Vari-Focal Lens
Minimum illumination	0.001 Lux/F1.2; 0Lux (IR ON)
S/N ratio	More Than 52dB (AGC OFF)
White Balance	ATW
Operating temp	-20°C To +50°C
Dimensions	120mm(¢) x 95mm(H)
Weight Approx	800g
Power consumption	IR on 400mA
Power consumption	IR off 120mA
IP Rating	IP65

SONY® Effio™ Ex-View HAD CCD II -960H

- DSP Sony Effio-E enhanced
- Resolution 700TVL
- Adaptive Tone Reproduction
- 2D Noise Reduction
- Exposure Control
- High Light Compensation

IRCAM40
External Day/Night Camera

- 420 TVL
- 3.6mm fixed lens
- Up to 15m Infra Red illumination
- 12v DC 270mA (IR-on)
- Weatherproof IP65 rating

CCD Sensor	1/4" SONY Super-HAD
Resolution	420 TVL
Lens	3.6mm Fixed
Effective Pixels	NTSC: 510(H) x 492(V) / PAL: 500(H) x 582(V)
LED Quantity	18pcs
IR Range	Up to 15m
Minimum Illumination	0 Lux / F2.0. IR ON: 0 Lux
Gamma	0.45 (AGC off)
Scanning System	2:1 Interlace
Sync System	Interior
Back Light Comp.	ON
White Balance	Auto
Gain Control	Auto
Flicker Correction	ON
Video Output	1 Vp-p 75 Ohm, F-Plug Connector
Input Voltage	DC12V +/- 10%
Input Current	90mA (IR off) / 270mA (IR on)
Operating Temp.	-10°C to 55°C
Operating Humidity	80% RH
IP Rating	IP65

IRCAM200
External Day/Night Camera

- 420 TVL
- 6mm fixed lens
- Up to 15m Infra Red illumination
- 12v DC 350mA (IR-on)
- Weatherproof IP66 rating

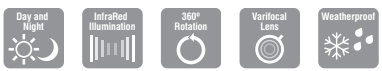
Signal System	PAL
Effective Pixels	500(H) x 582(V)
Image sensor	1/3" SONY Super HAD CCD
Sensing Area	4.9mm x 3.7mm
Shutter Speed	1/50(1/60) ~ 1/100,000 SEC
Video Output	1.0Vp-p,75Ω
Scanning Frequency	Horz:15.625KHz /Vert: 50Hz
Scanning System	2:1 interlace / internal
Horizontal Resolution	420 TV Lines
Minimum Illumination	0.1LUX (F1.2)/0 LUX (in IR mode)
Gamma Correction	0.45
S/N Ratio	≥ 48dB (AGC OFF)
White Balance	Automatic White Balance
AGC and BLC	ON
IR Capability	24 pcs IR-LED
IR Illumination Distance	More than 15m
Operating Temperature	-10~50°C
Water Resistance	IP 66
Lens	6mm/F2.0
Dimensions (mm)	66(ç) x 134(L)
Weight (kgs)	0.5
Power Source	DC12V
Power Consumption	120mA (IR OFF), 350mA (IR ON)

IRCAM600
External Day/Night Camera

- 560 TVL
- 2.8-12mm varifocal lens
- Up to 30m Infra Red illumination
- 12v DC 400mA (IR-on)
- Weatherproof IP66 rating

Signal System	PAL
Effective Pixels	752(H) – 582(V)
Image sensor	1/3" SONY Super HAD CCD
Sensing Area	4.9mm x 3.7mm
Shutter Speed	1/50(1/60) ~ 1/100,000 SEC
Video Output	1.0Vp-p,75Ω
Scanning Frequency	Horz: 15.62KHz / Vert: 50Hz
Scanning System	2:1 interlace / internal
Horizontal Resolution	560 TV Lines
Minimum Illumination	0.01Lux (F1.2)/0.00LUX(inIR Mode)
Gamma Correction	0.45
S/N Ratio	≥ 50dB (AGC OFF)
White Balance	Automatic White Balance
AGC and BLC	ON
IR Capability	42 pcs 5 IR-LED
IR Illumination Distance	More than 30m
Operating Temperature	-10~50°C
Water Resistance	IP 66
Lens	2.8-12mm Manual Varifocal
Dimensions (mm)	145(L) x 85(W) x 82(¢)
Weight (kgs)	0.65
Power Source	DC12V
Power Consumption	120mA (IR OFF), 400mA (IR ON)

IRCAM700
External Day/Night Camera



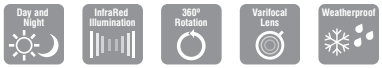
- 560 TVL
- 9-22mm varifocal lens
- Up to 50m Infra Red illumination
- 12v DC 500mA (IR-on)
- Weatherproof IP66 rating

Signal System	PAL
Effective Pixels	752(H) x 582(V)
Image sensor	1/3" SONY Super HAD CCD
Sensing Area	4.9mm x 3.7mm
Shutter Speed	1/50(1/60) ~ 1/100,000 SEC
Video Output	1.0Vp-p,75Ω
Scanning Frequency	Horz: 15.625KHz / Vert: 50Hz
Scanning System	2:1 interlace / internal
Horizontal Resolution	560 TV Lines
Minimum Illumination	0.01Lux (F1.2) / 0LUX (IN IR MODE)
Gamma Correction	0.45
S/N Ratio	More than ≥ 50dB (AGC OFF)
White Balance	Automatic White Balance
AGC and BLC	ON
IR Capability	36 pcs 5 IR-LED
IR Illumination Distance	More than 50m
Operating Temperature	-10~50°C
Water Resistance	IP 66
Lens	9 to 22mm Manual Varifocal
Dimensions (mm)	255(L) x 100(W) x 185(H)
Weight (kgs)	1.05
Power Source	DC12V
Power Consumption	120mA (IR OFF), 500mA (IR ON)

IRCAM900
External Day/Night Camera

- 560 TVL
- 6-50mm varifocal lens
- Up to 50m Infra Red illumination
- 12v DC 500mA (IR-on)
- Weatherproof IP66 rating

Signal System	PAL
Effective Pixels	752(H) x 582(V)
Image sensor	1/3" SONY Super HAD CCD
Sensing Area	4.9mm x 3.7mm
Shutter Speed	1/50(1/60) ~ 1/100,000 SEC
Video Output	1.0Vp-p,75Ω
Scanning Frequency	Horz: 15.625KHz / Vert: 50Hz
Scanning System	2:1 interlace / internal
Horizontal Resolution	560 TV Lines
Minimum Illumination	0.2Lux (F1.2)/ 0LUX (in IR mode)
Gamma Correction	0.45
S/N Ratio	≥ 50dB (AGC OFF)
White Balance	Automatic White Balance
AGC and BLC	ON
IR Capability	36 pcs IR-LED
IR Illumination Distance	More than 50m
Operating Temperature	-10~50°C
Water Resistance	IP 66
Lens	6 to 50mm Manual Varifocal
Dimensions (mm)	290(L)x 105(W)x 185(H)
Weight (kgs)	1.05
Power Source	DC12V
Power Consumption	120mA (IR OFF), 500mA (IR ON)



IRCAM1000
External Day/Night Camera

- 560 TVL
- 5-50mm varifocal lens
- Up to 50m Infra Red illumination
- 12v DC 800mA (IR-on)
- Weatherproof IP66 rating

Signal System	PAL
Effective Pixels	752(H) – 582(V)
Image sensor	1/3" SONY Super HAD CCD
Shutter Speed	1/50(1/60) ~ 1/12 0,000 SEC
Video Output	1.0Vp-p,75Ω
Scanning Frequency	Horz: 15.62KHz / Vert: 50Hz
Scanning System	2:1 interlace / internal
Horizontal Resolution	560 TV Lines
Minimum Illumination	0.00006(LUX) /0.00LUX(inIR Mode)
Gamma Correction	0.45
S/N Ratio	More than ≥ 50dB (AGC OFF)
White Balance	Automatic White Balance
AGC and BLC	ON
IR Capability	15 pcs 5 IR-LED
IR Illumination Distance	50m
Operating Temperature	-10~50°C
Water Resistance	IP 66
Lens	5 to 50mm Manual Varifocal
Dimensions (mm)	97(¢) x 200(L)
Weight (kgs)	2
Power Source	DC12V
Power Consumption	800mA max

DOMEMICRO
Internal Dome Camera

- 420 TVL
- 3.6mm fixed lens
- 12v DC 120mA

Signal system	PAL
Effective Pixels	500(H) x 582(V)
Image sensor	1/3" SONY Super HAD CCD
Sensing Area	4.9mm x 3.7mm
Shutter Speed	1/50(1/60) ~1/100,000 SEC
Video Output	1.0 Vp-p , 75Ω
Scanning Frequency	Horz: 15.625KHz / Vert: 50Hz
Scanning System	2:1 interlace / internal
Horizontal Resolution	420 TV Lines
Minimum Illumination	0.1LUX (F1.2)
Gamma Correction	0.45
S/N Ratio	≥ 48dB (AGC OFF)
White Balance	Automatic White Balance
AGC and BLC	ON
Operating Temperature	-10~50℃
Lens	3.6mm/F2.0
Dimensions (mm)	70(¢) x 52(H)
Weight (kgs)	0.08
Power Source	DC12V
Power Consumption	120mA

MINIDOME
Internal/External Dome Camera

- 420 TVL
- 2.8mm fixed lens
- 12v DC 120mA
- Weatherproof IP65 rating

Image Sensor	1/3 SONY SuperHAD CCD
Effective Pixels	500(H)×582(V)
Signal System	PAL
Horizontal Resolution	420TV Lines
Scanning System	2:1 Interlace
Sync.System	Internal
Minimum Illumination	0.1Lux/F1.2
S/N Ratio	More Than 48dB(AGC OFF)
Gamma	0.45
Electrical Shutter	NTSC: 1/60-1/120,000S PAL:1/50-1/120,000S
White Balance	ATW
AGC and BLC	Auto
Lens Mount	Built-in Fixed Lens(f=2.8mm)
Video Output	1.0Vp-p(75Ω,Composite)
Power Requirement	DC12V±10％&200mA
Dimension	94mm(￠)×68mm(H)
Weight	Approx 400g
Storage Temperature	-30℃ To +60℃
Operating Temperature	-10℃ To +45℃

IRDOME
Internal Dome Camera

- 420 TVL
- 4mm fixed lens
- Up to 10m Infra Red illumination
- 12v DC 350mA (IR-on)

Image Sensor	1/3" Colour SONY CCD
Effective Pixels	PAL: 500(H) x 582(V) NTSC: 510(H) x 492(V)
Signal System	PAL/NTSC
Resolution	420TVL
Minimum Illumination	0.2Lux/F2.0, 0Lux (IR On)
LENS	Board Lens 4mm
S/N Ratio	More than 48dB (AGC OFF)
Exposure Mode	EE
Electronic Shutter Speed	PAL:1/50-1/100,000(sec) NTSC: 1/60 – 1/100,000 (sec)
Gamma	0.45
White Balance	ATM
AGC Gain Control	Auto
Day & Night	Auto
SYNC System	Internal
Infrared Luminary	24 pcs IR-LED
Illumination Distance	10m
Video Output	1.0Vp-p,75Ω
Power Requirement	DC12V
Power Consumption	120mA(IR OFF), 350±5%mA(IR ON)
Operation Temp.	-10°C ~50°C
Dimensions (mm)	95(¢) x 85(H)
Weight	Approx 170g

IRDOMEXT
External Dome Camera

- 420 TVL
- 4mm fixed lens
- Up to 8m Infra Red illumination
- 12v DC 300mA (IR-on)

Effective Pixels	500(H) X 582(V)
Image sensor	1/3" SONY Super HAD CCD
Sensing Area	4.9mm X 3.7mm
Shutter Speed	1/50(1/60) ~1/100,000 SEC
Video Output	1.0 V P-P OHMS
Scanning Frequency	Horz: 15.625KHz /vert: 50Hz
Scanning System	2:1 interlace / internal
Horizontal Resolution	420 TV Lines
Minimum Illumination	0.5LUX(F1.2) / 0.00LUX (IN IR MODE)
Gamma Correction	0.45
S/N Ratio	≥ 48dB (AGC OFF)
White Balance	Automatic White Balance
IR Capability	14 pieces IR-LED
IR Illum. Distance	More than 8m
Burst Level	1/50
Operating Temp.	-10~50°C
Water Resistance	IP 65
Lens Board Lens	3.6mm/F2.0
Dimensions (mm)	L160 x W124 x H110 (incl. bracket)
Weight	730g approx.
Power Source	DC12V
Power Consumption	120mA (IR OFF) 300mA (IR ON)

DOMEVF
Internal / External Dome Camera

- 420 TVL
- 4-9mm varifocal lens
- 12v DC 120mA
- Weatherproof IP65 rating

Signal System	PAL
Effective Pixels	500(H) x 582(V)
Image sensor	1/3" SONY Super HAD CCD
Sensing Area	4.9mm x 3.7mm
Shutter Speed	1/50(1/60) ~1/100,000 SEC
Video Output	1.0 Vp-p , 75Ω
Scanning Frequency	Horz: 15.625KHz / Vert: 50Hz
Scanning System	2:1 interlace / internal
Horizontal Resolution	420 TV Lines
Minimum Illumination	0.1 LUX (F1.2)
Gamma Correction	0.45
S/N Ratio	≥ 48dB (AGC OFF)
White Balance	Automatic White Balance
AGC	ON
BLC	ON
Burst Level	1/50
Operating Temperature	-10~50°C
Water Resistance	IP 65
Lens	4-9mm Manual Varifocal
Dimensions (mm)	105(¢) x 75(H)
Weight (kgs)	0.4
Power Source	DC12V
Power Consumption	120mA

IRDOMEXTVF
External Dome Camera

- 560 TVL
- 2.8-12mm varifocal lens
- Up to 30M Infra Red illumination
- 12v DC 450mA (IR-on)
- Weatherproof IP65 rating

Signal System	PAL
Effective Pixels	752(H) x 582(V)
Image sensor	1/3" SONY Super HAD CCD
Sensing Area	4.9mm x 3.7mm
Shutter Speed	1/50(1/60) ~ 1/100,000 SEC
Video Output	1.0Vp-p,75Ω
Scanning Frequency	Horizontal: 15.625KHz /Vert: 50Hz
Scanning System	2:1 interlace / internal
Horizontal Resolution	560 TV Lines
Minimum Illumination	0.01Lux (F1.2)/0.00LUX(IN IRMode)
Gamma Correction	0.45
S/N Ratio	≥ 50dB (AGC OFF)
White Balance	Automatic White Balance
AGC and BLC	ON
IR Capability	42 pcs ¢ IR-LED
IR Illumination Distance	More than 30m
Operating Temperature	-10~50°C
Water Resistance	IP 65
Lens	2.8-12mm Manual Varifocal
Dimensions (mm)	L178 x W138 x H129 (incl. bracket
Weight (kgs)	0.7
Power Source	DC12V
Power Consumption	120mA (IR OFF), 450mA (IR ON)

IPCAM-PT - Wireless IP Camera

No router programming, no fixed IP requirement, no port forwarding, just plug and play.

- Wired or wireless
- Live audio feed
- Various mounting options
- Full mobile viewing and recording via mCamView APP
- Pan and tilt control
- Micro-SD card for local video storage

Power	DC 5V, 2A
Pan/Tilt control	Pan range 130° (-65° ~ 65°), Tilt range 90° (0° ~ 90°), Auto pan mode, Auto patrol mode
Image sensor	RGB VGA 1/4 inch CMOS Automatic exposure control, automatic white balance, automatic gain control, automatic brightness control
Light sensitivity	0.2 Lux
Lens	3.2 mm
Micro SD card slot	One micro SD card slot for micro SD card insertion
Audio	Built-in microphone for audio monitoring
Dimensions (mm)	120(H) x 91(W) x 84(D)
Weight 3	50 g camera body only

IP (internet protocol) cameras have been successfully integrated into the world of CCTV for a number of years. They offer an unbeatable solution for users requiring an effective remote viewing capability across the globe using their existing IT facilities. To date the installer has required a level of IT knowledge to create a stable connection that copes with the computer networks in built anti virus security.

The new IP cams put the world of IP CCTV in the hands of the relative novice. There's no need for port forwarding, router configuration or firewall opening. As with many of ESP's products the IPcams are very much plug and play.

EASY 3 STEP CONFIGURATION

Plug the camera into a spare port on the back of the wireless broadband router. Input the access key to allow wireless communication.

Launch the software on any computer which has network or internet access or load the mCamView app on a smart phone.

Then simply enter the unique registration code of the camera to complete the linking process.

Within minutes a remote viewing, recording IP based CCTV system is created. The software will allow connection and recording of up to 32 cameras. The attractive user interface allows separate image control, motion record settings and of course viewing of all cameras simultaneously. There's even pan and tilt control capability from a smart phone.

SPYCAM
Spy Camera

- 420TVL
- 3.6mm fixed lens
- 12v DC 120mA
- For Covert Surveillance applications
- Complete with additional optional pin hole lens

Signal	PAL
Effective Pixels	500(H) x 582(V)
Image sensor	1/3" SONY Super HAD CCD
Sensing Area	4.9mm x 3.7mm
Shutter Speed	1/50(1/60) ~ 1/100,000 SEC
Video Output	1.0Vp-p,75Ω
Scanning Frequency	Horz: 15.625KHz / Vert: 50Hz
Scanning System	2:1 interlace / internal
Horizontal Resolution	420 TV Lines
Minimum Illumination	0.1LUX (F1.2)/0 LUX (in IR mode)
Gamma Correction	0.45
S/N Ratio	≥ 48dB (AGC OFF)
White Balance	Automatic White Balance
AGC and BLC	ON
Operating Temperature	-10~50°C
Lens	3.6mm/F2.0
Option Pinhole Lens	3.7mm/F2.0
Dimensions (mm)	38(L) x 38(W)
Weight (kgs)	0.02
Power Source	DC12V
Power Consumption	120mA

CCTV CAMERA SELECTION

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 grid and then choose either the standard camera or Pro version where available.

Viewing Capability / Distance from Camera (meters)	< 3 meters >	< 10 meters >	< 15 meters >
	Lens size required	Lens size required	Lens size required
10	9-22mm	2.8-12mm	2.8-12mm
20	5-50mm	9-22mm	4-9mm
30	5-50mm	9-22mm	9-22mm
50	N/A	5-50mm	9-22mm

DVR4iP - 4 Channel Network DVR

- Network capability with Wi-Fi connectivity option
- Silent operation
- Complete with 500GB HD
- VGA output
- USB stick & mouse included

DVR8iP - 8 Channel Network DVR

- Network capability with Wi-Fi connectivity option
- Silent operation
- Complete with 1TB HD
- VGA output
- USB stick & mouse included

Camera Input	DVR4iP - 4 Channel DVR8iP - 8 Channel
Video Input	DVR4iP - 4 x BNC DVR8iP - 8 x BNC
Video Output	1VGA (1280x1024) +2 x BNC
Audio Input	1 x RCA
Audio Output	1 x RCA
Operating System	Embedded Linux OS
Internal HDD	Supports 1 SATA Device (HDDx1), upto 2TB
Serial Interface	RS-485
USB	2 x USB connectors
Dimension	250mm x 225mm x 45mm (L x W x H)
Weight (w/o HDD/DVD±RW)	1.0 Kg
Adaptor Input	100~240V, Output 12V 5A
Power Source	60 W
Display Speed	Digiview4i Pro - 100 fps (PAL) Digiview8i Pro - 200 fps (PAL)
Display Resolution (Pixel)	704 X 576 (PAL)
Recording Compression	H.264 main profile

Network Interface	10/100 Ethernet
Network Protocol	TCP/IP, PPPOE, DDNS, UPNP, FTP and NTP
Network Application	Windows XP/VISTA/7/8 (PC Client system)
Network 3G / GPRS	Windows mobile; iPhone; Blackberry; Symbian; Android system and 3G
Motion Detection	Detected Frames: Unlimited / Channel Sensitivity: 6 levels for each channel Area: 192 (16x12) surveyed area, Programmable individually
DVR/OSD Control GUI	16-bit True Color
DVR/OSD Control Languages	English, French, Portugal, Russia, Italian, Spanish, Thai, Greek, Japanese, German, Turkish, Polski , Finnish and Farsi.Chinese (28 Languages)
DVR/OSD Camera Title	English/number
DVR/OSD Mouse	YES
DVR/OSD Remote Controller	IR Remote Control
DVR/OSD System Upgrade	via USB / Network
DVR/OSD Pan/Tilt/Zoom Control	Control From RS485 Interface

DVR8iPro - 8 Channel Network DVR with DVR Drive

- DVD and USB back up
- Network capability
- VGA output
- Complete with 1TB HDD
- Remote control
- USB stick & mouse included

DVR16iPro - 16 Channel Network DVR with DVR Drive

- DVD and USB back up
- Network capability
- VGA output
- Complete with 1TB HDD
- Remote control
- USB stick & mouse included

SYSTEM	
Format	H.264 main profile Hi3515
Master processor	Technical grade embedded micro controller
O.S.	Embedded Linux operation
System resources	Multichannel real-time recording, playback, multi users network ops, simultaneously. USB backup output
INTERFACE	
Operation	16 bit true colour graphical operation interface, Interface support mouse operation
VIDEO	
Video standard	PAL (625TVLine, 50fps); NTSC (525TVLine, 60fps)
Monitoring quality	PAL, D1 (704x576); NTSC, D1(704x480)
Code capacity	CIF: 400FPS PAL, 480fps NTSC
Motion detection	396(22x18) surveyed area can be set in everyone frame; Multilevel sensitivity can be set
Video output	1 channel BNC, 1.0Vp-p, 75 Ohm, 1 channel VGA output
Audio input	DVR16iPro - 4 channel RCA, 200-2800mV, 30KΩ DVR8iPro - 8 channel RCA
Audio output	1 channel RCA
Alarm output	1 channel
Network	I.E. viewing, supports Windows mobile, Symbian, iPhone and black berry, Android cell phone viewing; Central Management System (CMS)

PTZ	1 x RS485
USB	2 x USB interface
HDD	2 x SATA supports 2TB, DVD-R/RW
WiFi, 3G	Yes
AUDIO	
Audio compression	G711A
VoIP	Yes
RECORDING & PLAYBACK	
Recording mode	Manual/alarm/motion detection/timing
Recording search	Time point, calendar, event, channel
STORAGE AND BACK UP	
Occupation HDD	Audio: 28.8Mbyte/ hour + video: space in channels 25~450Mbyte/hour
Record storage	DVD-R/RW, Local HDD, DVD-R/RW and network
Backup mode	DVD-R/RW, Network, USB HDD, USB DVD-R/RW
OTHER	
Power	12V/4.15A external adaptor
Dissipation	<10W (w/o HDD)
Working temp.	0 degree – 55 degree
Working humidity	10% – 90%
Dimension	353 x 325 x 61 mm
Weight	3.8KG/carton

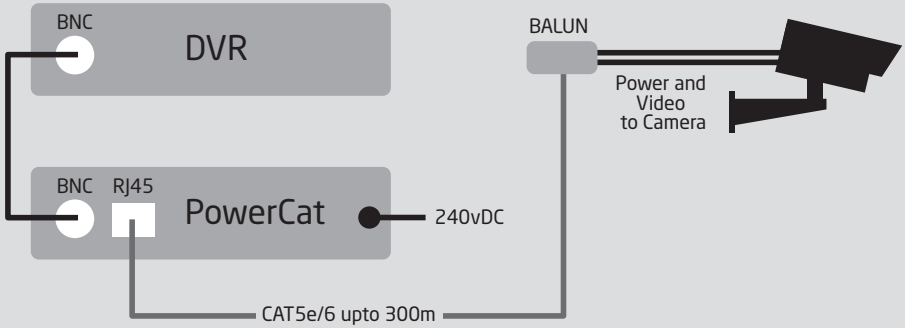
PowerCat

NEW

POWERCAT - 4, 8 and 16 Channel Power Video Hubs

PowerCat power video hubs represent a revolution in CCTV cabling. Available in 4, 8 and 16 channel variants they support power to the cameras and video signal from the cameras up to 300m across Cat5e or Cat6 cable. Using superior interference technology video and power signals co-exist to provide stable imagery and trouble free installation.

- CAT5 cabling solution for 12vDC CCTV installations
- Video and power via single CAT5 cable per channel up to 300M
- Simply create correct length CAT5 cable run with RJ45 plugs to complete system
- Kit includes camera transmitter baluns and pre made BNC links to DVR
- 12vDC power for camera up to 1amp (1000ma) per channel
- No requirement for local power supply to camera



EZ-WF - Wirefree Video Signal Transmitter

NEW

The EZ-WF is designed to provide a digital wire free solution for the transmission of a video signal where a cable run would be expensive or troublesome. The transmitter and receiver are factory "paired" making for a simple installation.

- 150M open field range
- Stable digital transmission
- FCC approved
- Pre coded pairing
- Up to 4 units in single location
- IP66 rated housings
- Wired output available on transmitter

TMPRO
Handheld Test Monitor

- 3.5" TFT low reflection screen
- 12vDC 400ma power output for camera
- Lithium rechargeable (5 hours working time)
- Integral CAT5 cable checker
- Durable design with quality carry case
- Handheld or wrist mount

Display	3.5"TFT Color LCD
Image Resolution	640 x 480
Video In	1 Video In (BNC connector)
Power Out	1 DC power out (Support CCD camera of power source/Max electric currency 400mA)
System Format	NTSC / PAL
Status Indicator	2 LED (Power IND = Green / Charging IND = Red)
Power Source	Built-in rechargeable Lithium battery
Dimension mm	180 (L) x 98 (W) x 30 (H)
Weight	250g

Ideal for use with ESP Pro range cameras

Boxed power supplies

- CPS4 - 4 way 4 Amp
- CPS9 - 9 way 9 Amp
- CPS16 - 16 way 16 Amp
- 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
- Dimensions CPS4: 182(W) x 260(H) x 66(D)mm
  CPS9 and CPS16: 322(W) x 322(H) x 86(D)mm

PSIL-1
Camera Power Supply

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

CAB-BNC
Cable Coupler Kit

- BNC connector for use with CCTV dual function cables - CAB10, CAB20, CAB40 and CAB80

Dual Function Cables

- CAB10 - 10m cable
- CAB20 - 20m cable
- CAB40 - 40m cable
- CAB80 - 80m cable
- Power and BNC video cables for use with digital CCTV equipment

TFT-BRA1 Fixed Bracket

- TFT-BRA1
- Closest to wall fit
- Picture style finish
- To fit screens 12-23" (30-58cm)
- Supports 20kg (44lbs)

TFT-BRA2 - Tilt, Pivot & Rotate Bracket

- 27° tilt 180° swivel
- Close to wall fit
- To fit screens 12-23" (30-58cm)
- Supports 20kg (44lbs)

DOMEDUMMY Dome Dummy Camera

- Medium external dummy camera
- Optional red LED
- Battery housed internally

CAM2001- External Dummy Camera

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

WARN1 External Warning Sign

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

Anti Vandal Cage1

CAGE1

- 360W x 360D x 460H
- Galvanized steel
- Easily wall mountable

Anti Vandal Cage2

CAGE2

- 210W x 255D x 305H
- Galvanized steel
- Easily wall mountable

EXTERNAL AREA PROTECTION

The External Area Protection range is the ideal solution for securing driveways, gardens, forecourts and yards of both domestic and commercial properties.

GuardCam 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! AlertCam is a standalone external PIR detector with integral video camera, recording facility and wire free alert triggering. NightHawk is a full feature combined PIR floodlight with incredibly low running costs and impressive usage life.

GuardCam
NightHawk
Hare Street

GuardCam®

Combined security camera floodlight system

On approach GuardCam will...

- Detect the intruder
- Floodlight the area
- Initiate a video recording
- Deliver an audible warning

Simply connect to mains power, fix to wall, set the time and date and switch on!

Eco friendly Grade C 230w halogen lamp
GuardCam and GuardCam RF are supplied with a low energy Grade C halogen lamp offering an equivalent to older Grade D lamps with lower running costs.

High resolution digital camera
GuardCam's integral camera offers clear image recording in video or still frame format. Night images retain colour and clarity due to automatic halogen light illumination.

Built in DVR records directly to a 2GB SD card
Records up to 750, twenty second video sessions or 60,000 still images onto the supplied 2GB SD card (max. card size 32GB). Oldest images are deleted and overwritten with new images. The SD card and time date controls are secured behind a waterproof door.

Time and date setting
A simple set up procedure will allow you to input the exact year, month, day and time that will remain within GuardCam ready to be applied to all recordings. In the event of mains power failure internal back up batteries ensure the settings are not lost.

Easy replay on Windows Media Player
GuardCam comes complete with an SD to USB converter. Simply remove the SD card from GuardCam insert into the converter and plug into your PC's USB port. The recorded images can then be launched and stored using Windows Media Player.

PIR motion detector with integral photocell
GuardCam detects the presence of intruders with proven PIR (passive infra red) technology at a distance of up to 12 metres from the unit. A photocell is employed to ensure activation is restricted to day or night at the users discretion.

PIR sensitivity and time control
GuardCam's PIR can be adjusted to provide the best coverage whilst avoiding false triggers from passing traffic, animals etc. The time control adjusts how long the halogen light will remain activated after movement has ceased.

Audible alert speaker with choice of warnings
GuardCam has the option to deliver an audible message upon activation. "Warning you are being recorded by a security camera", a barking dog or one of two messages that you can record yourself. There is also the option to have no voice alert.

Self recording
Option to record two self recorded alerts, instructional or advisory messages via GuardCam's built in microphone.

3 mode selection
Mode selection allows the user to choose the most suitable combination of GuardCam's functions. Light plus video at night, sound plus video in the day etc.

GuardCam
Combined security floodlight

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

- Detect the intruder
- Floodlight the area
- Initiate a video recording
- Deliver an audible warning
- Ability to record users own warning message
- Captures 60,000 still images or 750 twenty second video clips with 2GB card supplied
- Maximum card size allowable now 32GB

Supply Voltage	100-240VAC
Current drain (activated)	1.33amp
Current drain (quiescent)	0.005amp
Halogen output	230w eqv. to 300w
Halogen lamp grade	Grade C
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 Maximum 32GB
Image Format	JPEG / AVI
IP rating	IP44
Dimensions	180 x 190 x 315mm
Weight	1.206KG

GuardCam RF
RF combined security floodlight

GuardCam RF has all the features of GuardCam plus the added benefit of being able to trigger a remote chime/alarm or switching device. Compatible with the included AlertCam RA and optional AlertCam RS.

- Detect the intruder
- Floodlight the area
- Initiate a video recording
- Deliver an audible warning
- Ability to record users own warning message
- Captures 60,000 still images or 750 twenty second video clips with 2GB card supplied
- Maximum card size allowable now 32GB
- Multiple RA and RS units possible

Supply Voltage	100-240VAC
Current drain (activated)	1.33amp
Current drain (quiescent)	0.005amp
Halogen output	230w eqv. to 300w
Halogen lamp grade	Grade C
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 Maximum 32GB
Image Format	JPEG / AVI
IP rating	IP44
Dimensions (mm)	180 x 190 x 315mm
Weight	1.206KG

GuardCam® LED

Combined security camera LED floodlight system

Low Energy 8w LED equivalent to 150w halogen approx 40,000 hour life

On approach GuardCam LED will...

- Detect the intruder
- Floodlight the area
- Initiate a video recording
- Deliver an audible warning

Simply connect to mains power, fix to wall, set the time and date and switch on!

Eco friendly high intensity LED
GuardCam LED is supplied with an 8w high intensity eco friendly LED array of 1000 lumen output equivalent to 150w halogen lamp approximately 40,000 hour usage life.

High resolution digital camera
GuardCam's integral camera offers clear image recording in video or still frame format. Night images retain colour and clarity due to automatic halogen light illumination.

Built in DVR records directly to a 2GB SD card
Records up to 750, twenty second video sessions or 60,000 still images onto the supplied 2GB SD card (max. card size 32GB). Oldest images are deleted and overwritten with new images. The SD card and time date controls are secured behind a waterproof door.

Time and date setting
A simple set up procedure will allow you to input the exact year, month, day and time that will remain within GuardCam ready to be applied to all recordings. In the event of mains power failure internal back up batteries ensure the settings are not lost.

Easy replay on Windows Media Player
GuardCam comes complete with an SD to USB converter. Simply remove the SD card from GuardCam insert into the converter and plug into your PC's USB port. The recorded images can then be launched and stored using Windows Media Player.

PIR motion detector with integral photocell
GuardCam detects the presence of intruders with proven PIR (passive infra red) technology at a distance of up to 12 metres from the unit. A photocell is employed to ensure activation is restricted to day or night at the users discretion.

PIR sensitivity and time control
GuardCam's PIR can be adjusted to provide the best coverage whilst avoiding false triggers from passing traffic, animals etc. The time control adjusts how long the halogen light will remain activated after movement has ceased.

Audible alert speaker with choice of warnings
GuardCam has the option to deliver an audible message upon activation. "Warning you are being recorded by a security camera", a barking dog or one of two messages that you can record yourself. There is also the option to have no voice alert.

Self recording
Option to record two self recorded alerts, instructional or advisory messages via GuardCam's built in microphone.

3 mode selection
Mode selection allows the user to choose the most suitable combination of GuardCam's functions. Light plus video at night, sound plus video in the day etc.

GuardCam LED
Combined security LED floodlight

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!

- Detect the intruder
- Floodlight the area
- Initiate a video recording
- Deliver an audible warning
- Ability to record users own warning message
- Captures 60,000 still images or 750 twenty second video clips with 2GB card supplied
- Maximum card size allowable now 32GB

Supply Voltage	100-240VAC
Current drain (activated)	0.4amp
Current drain (quiescent)	0.005amp
LED output	1100 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 Maximum 32GB
Image Format	JPEG / AVI
IP rating	IP44
Dimensions (mm)	180 x 190 x 315mm
Weight	1.206KG

GuardCam LED RF
Combined security LED floodlight

GuardCam LED RF has all the features of GuardCam LED plus the added benefit of being able to trigger a remote chime/alarm or switching device. Compatible with the included AlertCam RA and optional AlertCam RS.

- Detect the intruder
- Floodlight the area
- Initiate a video recording
- Deliver an audible warning
- Ability to record users own warning message
- Captures 60,000 still images or 750 twenty second video clips with 2GB card supplied
- Maximum card size allowable now 32GB

Supply Voltage	100-240VAC
Current drain (activated)	0.4amp
Current drain (quiescent)	0.005amp
LED output	1100 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 Maximum 32GB
Image Format	JPEG / AVI
IP rating	IP44
Dimensions (mm)	180 x 190 x 315mm
Weight	1.206KG

NightHawk® LED

NHF Low Energy LED Flood Lights

NEW

REGISTER ONLINE AT WWW.ESPUK.COM FOR 7 YEAR WARRANTY

Build quality is key to the NHF range. Ultra reliable drivers and LEDs combined with a superb weather resistant finish and stainless steel fixings make the NHF a perfect choice for a wide range of floodlighting applications.

CE All models CE certificated to meet the EMC emission limitations required by EN55015:2006 A1:2007 A2:2009

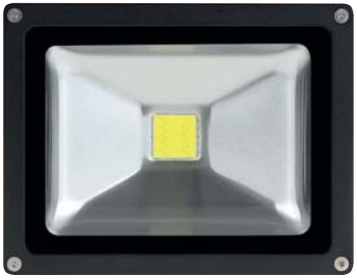
NHF10 LED Floodlight 10W 900 Lumen output

- Tough weather resistant coating
- Stainless steel fixings
- 50,000 hours LED lifetime
- IP65 Rated
- Cool white (6000-6500k)

FREE IP66 RATED JUNCTION BOX

Voltage	85-264V/AC
Power	10w
Lumen output	900LM
Colour	Cool White (6000-6500K)
IP Rating	IP65
Usage life	50,000 hours
Dimensions	115 x 85 x 85mm

NHF20 LED Floodlight 20W 1800 Lumen output



- Tough weather resistant coating
- Stainless steel fixings
- 50,000 hours LED lifetime
- IP65 Rated
- Cool white (6000-6500k)

FREE IP66 RATED JUNCTION BOX

Voltage	85-264V/AC
Power	20w
Lumen output	1800LM
Colour	Cool White (6000-6500K)
IP Rating	IP65
Usage life	50,000 hours
Dimensions	180 x 140 x 100mm

NightHawk
Low Energy LED Security Light

- LED floodlight - 1100 lumen output
- 50,000 hours LED life
- Low energy 12.7w maximum power consumption
- 160 degree PIR detector
- Wide spread illumination up to 120°
- Adjustable on time of 5 secs to 5 mins
- Adjustable lux - dusk to dark
- Electronic override function
- Adjustable floodlight direction - Horizontal and vertical axis
- Adjustable 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	12.7w (operational)
Detection method	Passive Infrared Sensor
Detector range	10M x 160 degrees
Light output	1100 Lumens
Illumination angle	120 degrees
Colour	5600K 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 which has the capability to switch up to 4 extra NH150LED units
- Weather proof, suitable for external use

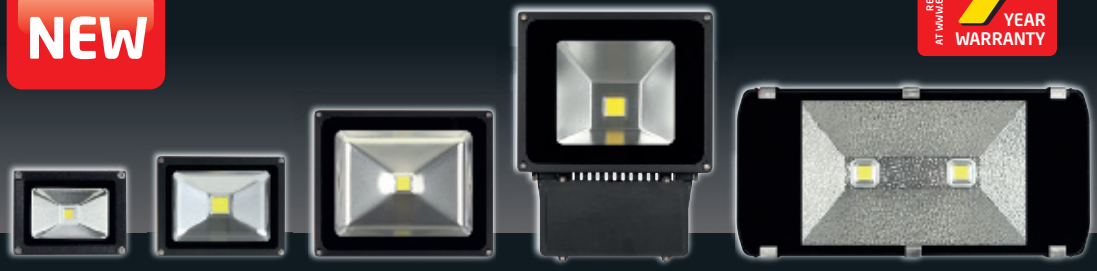
Power source	220 - 240VAC/50Hz
Power consumption	12.7w (operational)
Light output	1100 Lumens
Illumination angle	120 degrees
LED light output colour	5600K cool white
Time adjustment	5 seconds to 5 minutes
Maximum additional load	LED 50W - Halogen 500W
IP rating	IP55

NightHawk® LED

NHF Low Energy LED Flood Lights

NEW

REGISTER ONLINE AT WWW.ESPUK.COM FOR 7 YEAR WARRANTY



Build quality is key to the NHF range. Ultra reliable drivers and LEDs combined with a superb weather resistant finish and stainless steel fixings make the NHF a perfect choice for a wide range of floodlighting applications.

CE All models CE certificated to meet the EMC emission limitations required by EN55015:2006 A1:2007 A2:2009

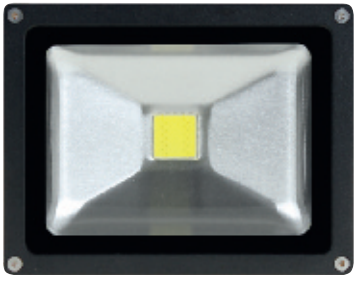
NHF10 LED Floodlight 10W 900 Lumen output

- Tough weather resistant coating
- Stainless steel fixings
- 50,000 hours LED lifetime
- IP65 Rated
- Cool white (6000-6500k)

FREE IP66 RATED JUNCTION BOX

Voltage	85-264V/AC
Power	10w
Lumen output	900LM
Colour	Cool White (6000-6500K)
IP Rating	IP65
Usage life	50,000 hours
Dimensions	115 x 85 x 85mm

NHF20 LED Floodlight 20W 1800 Lumen output



- Tough weather resistant coating
- Stainless steel fixings
- 50,000 hours LED lifetime
- IP65 Rated
- Cool white (6000-6500k)

FREE IP66 RATED JUNCTION BOX

Voltage	85-264V/AC
Power	20w
Lumen output	1800LM
Colour	Cool White (6000-6500K)
IP Rating	IP65
Usage life	50,000 hours
Dimensions	180 x 140 x 100mm

NHF50 LED Floodlight 50W 4500 Lumen output

- Tough weather resistant coating
- Stainless steel fixings
- 50,000 hours LED lifetime
- IP65 Rated
- Cool white (6000-6500k)

FREE
IP66 RATED JUNCTION BOX

Voltage	85-264V/AC
Power	50w
Lumen output	4500LM
Colour	Cool White (6000-6500K)
IP Rating	IP65
Usage life	50,000 hours
Dimensions	290 x 235 x 150mm

NHF80 LED Floodlight 80W 7000 Lumen output

- Tough weather resistant coating
- Stainless steel fixings
- 50,000 hours LED lifetime
- IP65 Rated
- Cool white (6000-6500k)

FREE
IP66 RATED JUNCTION BOX

Voltage	85-264V/AC
Power	80w
Lumen output	7000LM
Colour	Cool White (6000-6500K)
IP Rating	IP65
Usage life	50,000 hours
Dimensions	360 x 280 x 113mm

NHF140 LED Floodlight 140W 12500 Lumen output

- Tough weather resistant coating
- Stainless steel fixings
- 50,000 hours LED lifetime
- IP65 Rated
- Cool white (6000-6500k)

FREE
IP66 RATED JUNCTION BOX

Voltage	85-264V/AC
Power	140w
Lumen output	12500LM
Colour	Cool White (6000-6500K)
IP Rating	IP65
Usage life	50,000 hours
Dimensions	600 x 287 x 114mm

AlertCam

Complete external PIR camera system with RF controlled light and alarm activation

AlertCam is a standalone external PIR detector with integral video camera, recording facility and wire free alert triggering. AlertCam is an ideal solution for the protection of external areas such as driveways, gardens, forecourts, yards and farms.

On triggering AlertCam can internally switch up to 500w of local lighting, commence video recording of activity with time and date stamping and send a wire free trigger signal to any number of remote chime/alarm units or remote 1500w switching devices.

AlertCam RA
Wire free remote chime/alarm

AlertCam
Combined external PIR camera with remote RF trigger

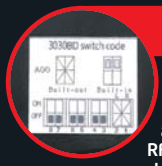
AlertCam RS
Wire free remote switching unit

External Weatherproof PIR

AlertCam is designed to be weatherproof and carries an IP55 rating. The PIR has a range of 10m and a 160 degree angle of detection.

Local light switching

AlertCam can be used to switch up to 500W of incandescent or 50W of LED lighting directly from the unit. plus an additional 1500w using the optional AlertCam RS.



RF Trigger output

In addition to its built in light switching function AlertCam also features integral RF capability that can be used to send trigger signals to optional remote light switching or Alarm devices. (AlertCam RS and AlertCam RA)

Integral camera

Captures high resolution 640 x 480 images at up to 10 metres.

Time And Date stamp

Time and date is set within the unit and all recordings will include a time and date stamp on playback.

Integral recording unit

Upon trigger from the PIR AlertCam stores images directly at two frames per second in a twenty second sequence directly to an on-board SD card hidden in a sealed compartment. Max size 32GB (approximately 1 million images). AlertCam will overwrite oldest images should SD card become full.

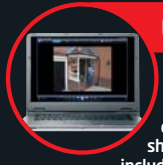


Image Playback

Captured images are viewed on a PC or laptop from the SD card or directly to a laptop via a short USB cable. Software is included to support this function.

Adjustable settings

Time and Lux settings can be adjusted to control lighting switched directly from the main AlertCam unit.

AlertCam Pro - AlertCam, AlertCam RA & AlertCam RS

External PIR camera with remote RF trigger and remote chime/alarm and wirefree trigger.

- Detect the intruder
- Trigger lighting up to 500w directly from AlertCam
- Initiate a video recording within the unit
- Send a wirefree trigger to remote chime/alarm device and 1500w switching device

PIR detection range	10m
PIR detection angle	160 Deg (adjustable)
Camera viewing angle	60 deg
Camera resolution	640 x 480
Transmission Range	Up to 50m open field
Max direct load	500W (50W LED)
Camera controls	Automatic white balance and exposure
Recording medium	SD (FAT16) or SDHC (FAT32) Max 32GB
Record rate	2 FPS for 20secs per trigger
Recording capacity with optional 32GB SD	16,000 files of 40 images
Recording capacity with supplied 2GB SD	1,000 files of 40 images
Image format	JPEG (converts to video stream via bespoke software)
USB interface	Micro B type USB2
RF Trigger range	Up to 50M - Clear line of sight
IP Rating	IP55 AlertCam, IP44 AlertCam RS
Dimensions	108(D) x 73(W) x 138(H)mm

AlertCam - Combined external PIR camera with RF trigger

- Integral colour camera
- Built in digital video recorder
- Up to 750 20sec video clips or 60,000 still images
- Over writes oldest image when card full
- Time and date stamping of recordings
- RF trigger for remote alarm and switching devices
- IP55 rated

AlertCam RS - Wire free remote switching unit

Wire free remote switching unit for use with AlertCam and GuardCam RF

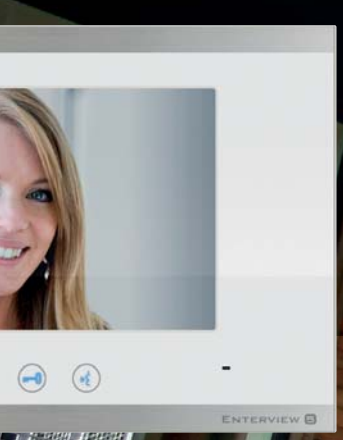
- 1500w switching capability
- Up to 50m open field range
- IP44 rated
- Adjustable switched time
- Transmission range (up to 50m open field)

AlertCam RA - Wire free remote alarm/chime receiver

Wire free remote chime / alarm unit for use with AlertCam, GuardCam RF and GuardCam LED RF.

- Selectable chime or alarm
- Adjustable volume
- Adjustable activation time
- Transmission range (up to 50m open field)

A complete and flexible range of superb quality video door entry equipment. Simple installation and high performance in mono or 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.



ENTERVIEW MX
1 2 3 *
4 5 6 0
7 8 9 #
ENTERVIEW 5
EZ-TAG 2
ENTERVIEW VX

EV5
Mono Video door entry system

- Clear high resolution mono picture on 4" monitor
- Up to 3 additional monitors per system
- Up to 2 additional audio handsets per system
- Up to 2 camera call points per system
- Door release activation button
- Two camera input
- Simple 4 core cable installation

MONITOR

Power	14.5VDC Direct from PSU
Installation	Surface Mounted
Operating Temp	-10°C ~ +55°C (14°F~131°F)
Consumption	800mA / 14.5DC
Dimensions Surface	205(W) x 220(H) x 55(D)mm
Net Weight	875g

CAMERA

Image sensor	1/3" B/W CCD
Min Illumination	0.8 LUX
Illumination	White LED 4 pcs
Lens	LG/3.6mm
IRIS system	Electronic automatic
Viewing angle	Horizontal 70° Vertical 50°
Voice transmission	Full duplex speech
Power source	DC 15V (+ 1V) from Monitor
Assurance temp.	-10°C ~ +50°C (14°F-122°F)
Cabinet	Vandal resistant metal
Weight	296g
Dimensions Surface	56(W) x 133(H) x 40(D)mm

EV5KP - Mono Video door entry system with access control keypad

- Clear high resolution mono picture on 4" monitor
- Up to 3 additional monitors per system
- Up to 2 additional audio handsets per system
- Up to 2 camera call points per system
- Door release activation button
- Two camera input
- Simple 4 core cable installation

MONITOR

Power	14.5VDC Direct from PSU
Installation	Surface Mounted
Operating Temp	-10°C ~ +55°C (14°F~131°F)
Consumption	800mA / 14.5DC
Dimensions Surface	205(W) x 220(H) x 55(D)mm
Net Weight	875g

CAMERA

Image sensor	1/3" B/W CCD
Min Illumination	0.8 LUX
Illumination	LED
Lens	LG/3.6mm
IRIS system	Electronic automatic
Camera Angle	Adjustable
Viewing angle	Horizontal 70° Vertical 50°
Voice transmission	Full duplex speech
Power source	DC 15V (+ 1V) from Monitor
Assurance temp.	-10°C ~ +50°C (14°F~122°F)
Cabinet	Metal
Weight	686g
Dimensions Surface	74(W) x 182(H) x 59(D)mm

EV5C
Colour Video door entry system

- Clear high resolution colour picture on 4" monitor
- Up to 3 additional monitors per system
- Up to 2 additional audio handsets per system
- Up to 2 camera call points per system
- Door release button
- Two camera input
- Simple 4 core cable installation

MONITOR

Power	14.5VDC Direct from PSU
Installation	Surface Mounted
Operating Temp	-10°C ~ +55°C (14°F~131°F)
Consumption	800mA / 14.5DC
Dimensions Surface	205(W) x 220(H) x 55(D)mm
Net Weight	875g

CAMERA

Image sensor	1/3" Colour CCD
Min Illumination	1 LUX
Illumination	White LED 4 pcs
Lens	LG/3.6mm
IRIS system	Electronic automatic
Viewing angle	Horizontal 70° Vertical 50°
Voice transmission	Full duplex speech
Power source	DC 15V (+ 1V) from Monitor
Assurance temp.	-10°C ~ +50°C (14°F-122°F)
Cabinet	Vandal resistant metal
Weight	296g
Dimensions Surface	56(W) x 133(H) x 40(D)mm

EV5CKP - Colour Video door entry system with access control keypad

- Clear high resolution colour picture on 4" monitor
- Up to 3 additional monitors per system
- Up to 2 additional audio handsets per system
- Up to 2 camera call points per system
- Door release activation button
- Two camera input
- Simple 4 core cable installation

MONITOR

Power	14.5VDC Direct from PSU
Installation	Surface Mounted
Operating Temp	-10°C ~ +55°C (14°F~131°F)
Consumption	800mA / 14.5DC
Dimensions Surface	205(W) x 220(H) x 55(D)mm
Net Weight	875g

CAMERA

Image sensor	1/3" Colour CCD
Min Illumination	1 LUX
Illumination	LED
Lens	LG/3.6mm
IRIS system	Electronic automatic
Camera Angle	Adjustable
Viewing angle	Horizontal 70° Vertical 50°
Voice transmission	Full duplex speech
Power source	DC 15V (+ 1V) from Monitor
Assurance temp.	-10°C ~ +50°C (14°F~122°F)
Cabinet	Metal
Weight	686g
Dimensions Surface	74(W) x 182(H) x 59(D)mm

EV5C-HF
Colour Video door entry system

- Clear high resolution colour picture on 7" hands free TFT monitor
- Up to three additional monitors per system
- Up to two additional audio only handsets
- Door release button
- Two camera input
- Simple 4 core cable installation

MONITOR

Power	14.5VDC Direct from PSU
Installation	Surface Mounted
Operating Temp	-10°C ~ +55°C (14°F~131°F)
Consumption	800mA / 14.5DC
Dimensions Surface	240(W) x 175(H) x 38(D)mm
Net Weight	594g

CAMERA

Image sensor	1/3" Colour CCD
Min Illumination	1 LUX
Illumination	White LED 4 pcs
Lens	LG/3.6mm
IRIS system	Electronic automatic
Viewing angle	Horizontal 70° Vertical 50°
Voice transmission	Full duplex speech
Power source	DC 15V (+ 1V) from Monitor
Assurance temp.	-10°C ~ +50°C (14°F-122°F)
Cabinet	Vandal resistant metal
Weight	296g
Dimensions Surface	56(W) x 133(H) x 40(D)mm

EV5CKP-HF
Colour Video door entry system

- Clear high resolution colour picture on 7" hands free TFT monitor
- Up to three additional monitors per system
- Up to two additional audio only handsets per system
- Door release button
- Two camera input
- Simple 4 core cable installation

MONITOR

Power	14.5VDC Direct from PSU
Installation	Surface Mounted
Operating Temp	-10°C ~ +55°C (14°F~131°F)
Consumption	800mA / 14.5DC
Dimensions Surface	240(W) x 175(H) x 38(D)mm
Net Weight	594g

CAMERA

Image sensor	1/3" Colour CCD
Min Illumination	1 LUX
Illumination	LED
Lens	LG/3.6mm
IRIS system	Electronic automatic
Camera Angle	Adjustable
Viewing angle	Horizontal 70° Vertical 50°
Voice transmission	Full duplex speech
Power source	DC 15V (+ 1V) from Monitor
Assurance temp.	-10°C ~ +50°C (14°F~122°F)
Cabinet	Metal
Weight	686g
Dimensions Surface	74(W) x 182(H) x 59(D)mm

EVH5C - Colour handset

■ Monochrome version available - EVH5

Power	14.5VDC Direct from PSU
Installation	Surface Mounted
Operating Temp	-10°C ~ +55°C (14°F~131°F)
Consumption	800mA / 14.5DC
Dimensions Surface	205(W) x 220(H) x 55(D)mm
Net Weight	875g

EVH5C-HF - Colour handsfree monitor

Power	14.5VDC Direct from PSU
Installation	Surface Mounted
Operating Temp	-10°C ~ +55°C (14°F~131°F)
Consumption	800mA / 14.5DC
Dimensions Surface	240(W) x 175(H) x 38(D)mm
Net Weight	594g

EVHF10W - Colour handsfree 10" monitor

■ Black version available - EVHF10B

Power	14.5VDC Direct from PSU
Working current	450mA
Speaker output	8Ω 0.5W
Installation	Surface Mounted
Operating Temp	-10°C ~ +55°C (14°F~131°F)
Dimensions Surface	340(W) x 210(H) x 35(D)mm
Net Weight	594g

EVH5AO - Audio only handset

Power	14.5VDC Direct from PSU
Installation	Surface Mounted
Operating Temp	-10°C ~ +55°C (14°F~131°F)
Consumption	100mA / 14.5DC
Dimensions Surface	95(W) x 200(H) x 45(D)mm
Net Weight	220g

EV5CAM - Monochrome camera

Image sensor	1/3" B/W CCD
Min Illumination	0.8 LUX
Illumination	White LED 4 pcs
Lens	LG/3.6mm
IRIS system	Electronic automatic
Viewing angle	Horizontal 70° Vertical 50°
Voice transmission	Full duplex speech
Power source	DC 15V (+ 1V) from Monitor
Assurance temp.	-10°C ~ +50°C (14°F-122°F)
Cabinet	Vandal resistant metal
Weight	296g
Dimensions Surface	56(W) x 133(H) x 40(D)mm

EV5KPCAM - Monochrome camera with access control keypad

Image sensor	1/3" B/W CCD
Min Illumination	0.8 LUX
Illumination	LED
Lens	LG/3.6mm
IRIS system	Electronic automatic
Camera Angle	Adjustable
Viewing angle	Horizontal 70° Vertical 50°
Voice transmission	Full duplex speech
Power source	DC 15V (+ 1V) from Monitor
Assurance temp.	-10°C ~ +50°C (14°F~122°F)
Cabinet	Metal
Weight	686g
Dimensions Surface	74(W) x 182(H) x 59(D)mm

EV5CCAM - Colour camera

Image sensor	1/3" Colour CCD
Min Illumination	1 LUX
Illumination	White LED 4 pcs
Lens	LG/3.6mm
IRIS system	Electronic automatic
Viewing angle	Horizontal 70° Vertical 50°
Voice transmission	Full duplex speech
Power source	DC 15V (+ 1V) from Monitor
Assurance temp.	-10°C ~ +50°C (14°F-122°F)
Cabinet	Vandal resistant metal
Weight	296g
Dimensions Surface	56(W) x 133(H) x 40(D)mm

EV5CKPCAM - Colour camera with access control keypad

Image sensor	1/3" Colour CCD
Min Illumination	1 LUX
Illumination	LED
Lens	LG/3.6mm
IRIS system	Electronic automatic
Camera Angle	Adjustable
Viewing angle	Horizontal 70° Vertical 50°
Voice transmission	Full duplex speech
Power source	DC 15V (+ 1V) from Monitor
Assurance temp.	-10°C ~ +50°C (14°F~122°F)
Cabinet	Metal
Weight	686g
Dimensions Surface	74(W) x 182(H) x 59(D)mm

EVOKE
Audio door entry system

- Easy install
- Up to two handsets per system
- Clear high quality speech
- Durable metal call point IP55 rated
- Call transfer between handsets
- Remote door release

HANDSET

Input range	DC12V
Output power	<=0.6W
Working current	<=50mA
Dimension	225 x 83 x 60

CALL POINT

Input range	DC12V
Output power	<=0.6W
Working current	<=50mA
IP rating	55
Dimension	128 x 43 x 40

EVOKE-H
Additional handset

Input range	DC12V
Output power	<=0.6W
Working current	<=50mA
Dimension	225 x 83 x 60

EVOKEKP - Audio door entry system with keypad

- Durable metal call point IP55 rated
- Blue backlit keypad
- Up to 40 PIN code groups
- Simple programming
- Up to two handsets per system
- Clear high quality speech
- Call transfer between handsets
- Remote door release

HANDSET

Input range	DC12V
Output power	<=0.6W
Working current	<=50mA
Dimension	225 x 83 x 60

KEYPAD

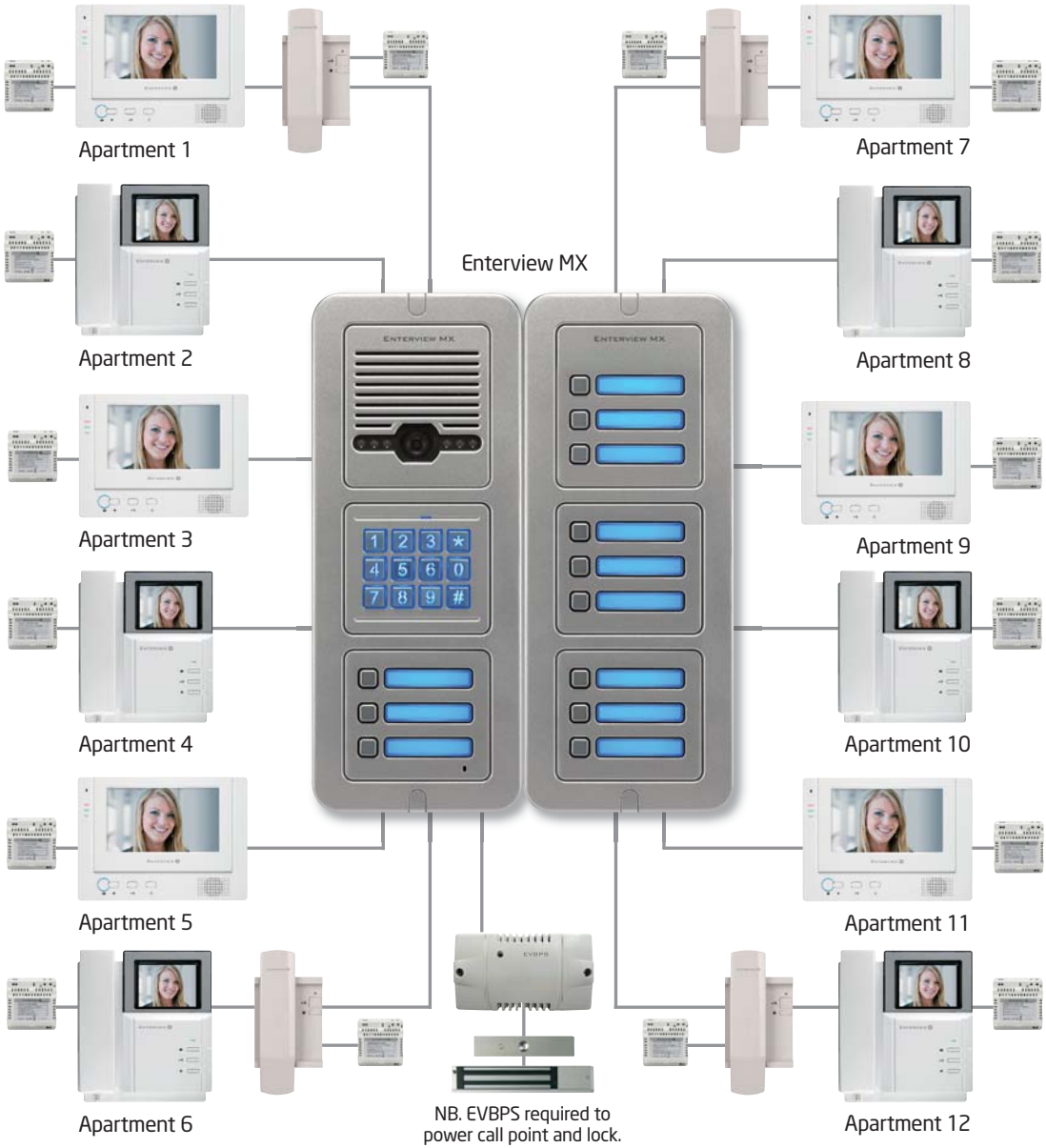
Input range	DC12V
Output power	<=1.56W
Working current	<=130mA
Speaker output	0.5W
IP rating	55
Dimension	190 x 78 x 60

Enterview MX

Enterview MX multiway video door entry systems are the ideal solution for multi apartment applications from 2 - 32 way. Enterview MX is available in mono or colour formats with the option to choose integral keypad access control. The stylish slimline call station is suitable for external use and can be flush or surface mounted. Simply tell us how many handset points are required and we'll quote for the complete system including all required power supplies.

Enterview MX systems are offered in colour or mono variants. A choice of handset or stylish handsfree monitors are available for the colour system, even in a mix and match format. In addition both mono and colour systems can accept the handy audio only handset.

Example of an Enterview MX 12 way video door entry call system with keypad



Enterview MX - Multi way mono & colour video door entry systems

- Stylish aluminium design
- 2-way to 32-way
- Label ID template available
- Surface or flush mounting of call station
- Access control keypad option
- Blue backlight illumination
- Up to 4 handsets per apartment

Working condition	Temperature: -20°C ~ +55°C RH ≤ 95%
Voltage DC	15V ±10%
Standby current	≤ 80 mA
Working current	≤240 mA
Communication mode	Dual transmission
Talking time	2 minutes
IP rating	55
Weight	1.05kg
Dimensions surface	124 (W) x 304 (H) x 38mm (D)
Dimensions flush	124 (W) x 304 (H) x 340mm (D)

EVMX2 -
Monochrome 2 button video door station

EVMX2C -
Colour 2 button video door station

EVMX4 -
Monochrome 4 button video door station

EVMX4C -
Colour 4 button video door station

EVMX6 -
Monochrome 6 button video door

EVMX6C -
Colour 6 button video door station

EVH5C - Colour handset

- Monochrome version available - EVH5

Power	14.5VDC Direct from PSU
Installation	Surface Mounted
Operating Temp	-10°C ~ +55°C (14°F~131°F)
Consumption	800mA / 14.5DC
Dimensions Surface	205(W) x 220(H) x 55(D)mm
Net Weight	875g

EVH5C-HF - Colour handsfree monitor

Power	14.5VDC Direct from PSU
Installation	Surface Mounted
Operating Temp	-10°C ~ +55°C (14°F~131°F)
Consumption	800mA / 14.5DC
Dimensions Surface	240(W) x 175(H) x 38(D)mm
Net Weight	594g

EVHF10W - Colour handsfree 10" monitor

- Black version available - EVHF10B

Power	14.5VDC Direct from PSU
Working current	450mA
Speaker output	8Ω 0.5W
Installation	Surface Mounted
Operating Temp	-10°C ~ +55°C (14°F~131°F)
Dimensions Surface	340(W) x 210(H) x 35(D)mm
Net Weight	594g

EVH5AO - Audio only handset

Power	14.5VDC Direct from PSU
Installation	Surface Mounted
Operating Temp	-10°C ~ +55°C (14°F~131°F)
Consumption	100mA / 14.5DC
Dimensions Surface	95(W) x 200(H) x 45(D)mm
Net Weight	220g

EVVX - Stainless steel vandal resistant colour video door entry

Enterview VX is available in 1-4 way variants featuring a contemporary design with blue back lighting and a tough stainless steel faceplate. The range also includes a 1 or 2 way code access unit. All models have surface or flush mounting options.

- Contemporary stainless steel design
- Vandal resistant
- 1 button to 4 button
- Label ID template available
- Surface or flush mounting variants
- Blue backlight illumination

Input range	DC 12~15V
Working current	250mA
Speaker output	8Ω 0.5W
Weather proof	IP 65
Dimensions surface	144 (W) x 274 (H) x 48mm (D)
Dimensions flush	140 (W) x 270 (H) x 50mm (D)

EVVX1F 1 button flush mount video door station
EVVX2F 2 button flush mount video door station
EVVX3F 3 button flush mount video door station
EVVX4F 4 button flush mount video door station

EVVX1S 1 button surface mount video door station
EVVX2S 2 button surface mount video door station
EVVX3S 3 button surface mount video door station
EVVX4S 4 button surface mount video door station

EVVX1KPF 1 button flush mount video door station with keypad
EVVX2KPF 2 button flush mount video door station with keypad
EVVX1KPS 1 button surface mount video door station with keypad
EVVX2KPS 2 button surface mount video door station with keypad

EVH5C - Colour handset

- Monochrome version available - EVH5

Power	14.5VDC Direct from PSU
Installation	Surface Mounted
Operating Temp	-10°C ~ +55°C (14°F~131°F)
Consumption	800mA / 14.5DC
Dimensions Surface	205(W) x 220(H) x 55(D)mm
Net Weight	875g

EVH5C-HF - Colour handsfree monitor

Power	14.5VDC Direct from PSU
Installation	Surface Mounted
Operating Temp	-10°C ~ +55°C (14°F~131°F)
Consumption	800mA / 14.5DC
Dimensions Surface	240(W) x 175(H) x 38(D)mm
Net Weight	594g

EVHF10W - Colour handsfree 10" monitor

- Black version available - EVHF10B

Power	14.5VDC Direct from PSU
Working current	450mA
Speaker output	8Ω 0.5W
Installation	Surface Mounted
Operating Temp	-10°C ~ +55°C (14°F~131°F)
Dimensions Surface	340(W) x 210(H) x 35(D)mm
Net Weight	594g

EVH5AO - Audio only handset

Power	14.5VDC Direct from PSU
Installation	Surface Mounted
Operating Temp	-10°C ~ +55°C (14°F~131°F)
Consumption	100mA / 14.5DC
Dimensions Surface	95(W) x 200(H) x 45(D)mm
Net Weight	220g

EZ-TAG2 - Single door proximity door entry

- Easy install
- Complete with 10 Tags
- Simple self contained programming
- Fail safe or secure options from power supply
- Combined keypad, reader and controller
- Up to 1,010 key tag holders or Pin numbers
- 2 separate user groups
- Weather/dust proof robust construction
- Twin relay outputs
- Door bell function
- Anti tamper option

EZ-TAG2 PRO - Single door proximity door entry kit

Kit contains

- EZ-TAG2 Door Entry with 10 Tags
- EVML-250 Electromagnetic Lock
- EVBPS Boxed power supply
- EV-EXIT Push to Exit Lock
- EV-EBG Emergency Break Glass

DC input	12 - 24 volts
AC input	12 - 24 volts
Standby current	80ma
Operating current (without lock)	110ma @ 12 volts DC
Working temperature	-20c to +50c
Reader frequency	125Hz
Tag reading distance	5cm
IP rating	65
EZ-TAG2 Dimensions	152 x 45 x 25mm

EZ-LOCK - Single door keypad access control

- Easy install
- Simple self contained programming
- Fail safe or secure options from power supply
- Combined keypad and controller
- 2 separate user groups
- Weather/dust proof robust construction
- Twin relay outputs
- Door bell function
- Anti tamper option

EZ-LOCK PRO - Single door keypad access control kit

Kit contains

- EZ-LOCK Keypad Access Door Entry
- EVML-250 Electromagnetic Lock
- EVBPS Boxed power supply
- EV-EXIT Push to Exit Lock
- EV-EBG Emergency Break Glass

DC input	12 - 24 volts
AC input	12 - 24 volts
Standby current	80ma
Operating current (without lock)	110ma @ 12 volts DC
Working temperature	-20c to +50c
IP rating	65
Dimension	152 x 45 x 25mm

EVBPS
Boxed power supply

- 100-240vAC, 50/60Hz input
- 1.5A /12vDC fail safe output
- 1A 12vDC fail secure output
- Size: 129 x 73 x 50mm LWD

ENTERD-YLR - Surface
Electromagnetic lock

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

NB. Requires EV-BPS power supply

ENTERD
Electromagnetic lock

- Holding force 295kg/650lbs
- 160ma 12vdc input
- For use with Yale type rim locks
- Surface mounting version available

NB. Requires EV-BPS power supply

EV-ML-250
Electromagnetic lock

- Holding force 250kg/550lbs max
- 420ma 12vdc input
- Z & L mounting bracket included

NB. Requires EV-BPS power supply

EV-EXIT - Push to exit
lock release button

- Stainless steel fascia
- Flush mounting
- Push to make contacts

EV-EBG - Emergency
break glass

- Surface mounted
- Emergency break glass to release door

EZT2-ST10
Proximity Tags

Proximity Tags (Packs of 10) for use with EZ-TAG2

The Fireline system from ESP has been created to balance performance, reliability and aesthetics whilst maintaining full compliance with the latest standards. The range includes everything required to complete a high quality, durable, conventional fire alarm installation.

FIRE
OUTPUT DELAY 1
ENABLE/DISABLE 2
GENERAL FAULT
TEST 3
SOUNDER FAULT/DISABLE
POWER SUPPLY 230V 4
SOUND ALARM
RESET
SILENCE ALARM
ENABLE/ DISABLE
ON
OFF
SILENCE BUZZER
TEST/ SCROLL
MAG816

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 evacuate 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
- BS5839 and EN54 P2/4 compliant
- CE certified
- Requires only 1x12v battery
- 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 ± 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 OC
	Storage Temperature	-20 to 60 OC
	Humidity	0 - 95%
	Dimensions (mm)	340W 290H 100D
	Weight	2.1 KG

MAG2
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 evacuate 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
- BS5839 and EN54 P2/4 compliant
- CE certified
- Requires only 1x12v battery
- Metal 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 ± 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 OC
	Storage Temperature	-20 to 60 OC
	Humidity	0 - 95%
	Dimensions (mm)	200W 290H 80D
	Weight	2.7 KG

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 evacuate 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
- BS5839 and EN54 P2/4 compliant
- CE certified
- Requires only 1x12v battery
- 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 ± 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 OC
	Storage Temperature	-20 to 60 OC
	Humidity	0 - 95%
	Dimensions (mm)	340W 290H 100D
	Weight	2.5 KG

MAG4
4 Zone Fire Panel

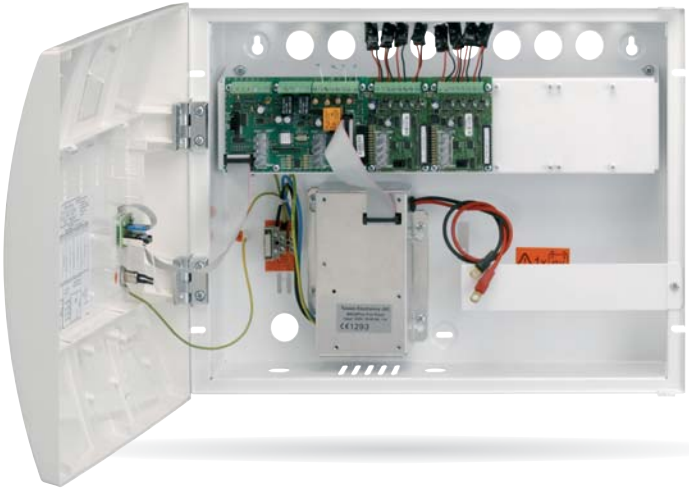
- 4 programmable zones
- Active end of line monitoring and head removal
- 30 fire detectors per zone
- Unlimited number of call points per zone
- Integral evacuate alarm button
- 'Class change' facility
- Enable/disable security key
- One man walk test facility
- Volt free fire change over relay
- Volt free fault change over relay
- Individual sounder circuit fault ID
- Individual zone/sounder isolate
- BS5839 and EN54 P2/4 compliant
- CE certified
- Requires only 1x12v battery
- Metal 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 ± 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 OC
	Storage Temperature	-20 to 60 OC
	Humidity	0 - 95%
	Dimensions (mm)	320W 220H 80D
	Weight	3.5 KG

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 evacuate alarm button
- Repeater facility
- '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
- Alarm delay options
- BS5839 and EN54 P2/4 compliant
- CE certified
- Requires 1 x 12V batteries
- ABS casing



FIRE ZONE / SOUNDER OUTPUT MATRIX

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

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 OC
	Storage Temperature	-20 to 60 OC
	Humidity	0 to 93%
	Dimensions (mm)	456W 350H 125D
	Weight	4.2 KG

Conventional Fire Alarm Detectors

These Fireline detectors have been developed to provide a perfect compliment to the Fireline MAG panels. All detectors are supplied with a diode base.

PSD-2 Optical smoke detector
CSD-2 Combined optical smoke & fixed heat detector
FHD-2 Fixed temperature heat detector
RHD-2 Rate of rise heat detector

MODEL	PSD-2	CSD-2	FHD-2	RHD-2
DESCRIPTION	Optical smoke	Combined smoke/heat	Fixed temp heat	Rate of rise heat
TYPE	Conventional	Conventional	Conventional	Conventional
APPROVAL	EN54-7	EN54-7, EN54-5	EN54-5	EN54-5
CLASS	N/A	A1R	A2S	A1R
OPERATING VOLTAGE	9 - 30VDC	9 - 30VDC	9 - 30VDC	9 - 30VDC
STANDBY CURRENT @ 24V	< 60µA	< 60µA	< 60µA	< 60µA
ALARM CURRENT @ 24V	49mA	49mA	49mA	49mA
WIRE GAUGE	0.4mm - 2.0mm TWIN	0.4mm - 2.0mm TWIN	0.4mm - 2.0mm TWIN	0.4mm - 2.0mm TWIN
OPERATING TEMPERATURE	-10°C to 60°C	-10°C to 60°C	-10°C to 60°C	-10°C to 60°C
TEST FACILITY	Simulated Smoke	Simulated Smoke/ Heat	Heat Source	Heat Source

12V Fire Alarm Detectors

The new range of Fireline detectors have been developed to provide a perfect compliment to 12V hardwire intruder alarm systems. All detectors are supplied with a relay base.

PSD-212 12V Optical smoke detector
CSD-212 Combined optical smoke & fixed heat detector
FHD-212 Fixed temperature heat detector
RHD-212 Rate of rise heat detector

MODEL	PSD-212	CSD-212	FHD-212	RHD-212
DESCRIPTION	Optical smoke	Combined smoke/heat	Fixed temp heat	Rate of rise heat
TYPE	Conventional	Conventional	Conventional	Conventional
APPROVAL	EN54-7	EN54-7, EN54-5	EN54-5	EN54-5
CLASS	N/A	A1R	A2S	A1R
OPERATING VOLTAGE	9 - 30VDC	9 - 30VDC	9 - 30VDC	9 - 30VDC
STANDBY CURRENT @ 12V	< 50µA	< 50µA	< 50µA	< 50µA
ALARM CURRENT @ 12V	29mA	29mA	29mA	29mA
WIRE GAUGE	0.4mm - 2.0mm TWIN	0.4mm - 2.0mm TWIN	0.4mm - 2.0mm TWIN	0.4mm - 2.0mm TWIN
OPERATING TEMPERATURE	-10°C to 60°C	-10°C to 60°C	-10°C to 60°C	-10°C to 60°C
TEST FACILITY	Simulated Smoke	Simulated Smoke/ Heat	Heat Source	Heat Source

SOUNDER STROBES / CALL POINTS

BA-2R - Red Banshee Sounder

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

BA-2W - White Banshee Sounder

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

MA1 Multi Alert Sounder

- Sound Output @ 1m - 103 dBA
- Current - 15 mA
- IP Rating - IP55

BS-1R Red Bedroom Sounder

- Sound Output @ 1m - 90 dBA
- Current - 7 mA

BS-1W - White Bedroom Sounder

- Sound Output @ 1m - 90 dBA
- Current - 7 mA

DBS1 Detector Base Sounder

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

SCP2-R Resettable Call Point

- Surface or flush mounting
- Complete with surface back box
- Spare keys available - SCP2RK

IFB-1 Internal Fire Bell

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

WFB-1 Weatherproof Fire Bell

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

FS-1 1 watt Strobe

- Flash rate - 60/minute
- Current - 42, 84, 126 mA
- IP Rating - IP65

SOUNDER STROBES AND ACCESSORIES

ZRL2 - Remote LED Indicator Plate

- Flash rate - permanent
- Current - minimal
- Internal use only

CB-1R - Banshee Sounder and Strobe

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

CB-2 - Multi-Alert Sounder and Strobe

- Sound Output - 97 dBA
- Flash rate - 60/minute
- Current - 45 mA
- IP Rating - IP55

BAT7 12v 7.0ah SLA Battery

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

BAT18 12v 17ah SLA Battery

- Back up battery for MAG816

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

- For use with DR916-24 and DR916-240

DR916-KP Spare Keeper Plate

- For use with DR916-24 and DR916-240

MAG816 Expander Cards

MAGZC816
4 Zone Expander Card

MAGSC816
4 Zone Sounder Expander Card

pro

High resolution 700TVL CCTV cameras

ENTERVIEW 6

Single way video door entry systems

BD

BDeye combined CCTV video door access system

ENTERVIEW MX
ENTERVIEW VX

Multiway video door entry systems

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CCTV protection for home or business

EVOKE

Audio only door entry systems

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CCTV monitors with integral DVR

GuardCam®

Combined security camera floodlight systems

fireline

Fire detection and warning systems

LED NightHawk®

Low energy LED security lighting

EZ-TAG 2
EZ-LOCK

Proximity and Keypad access control systems

AlertCam

Combined external PIR camera with RF trigger

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4, 8 and 16 Channel Power Video Hubs

LED NightHawk®

NHF Low Energy LED Flood Lights

Elite Security Products
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Lakeside, Redditch B98 8YN

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