

IP Surveillance Solutions

Ideal for home, office and professional use,
These high-quality security solutions will
protect the things that matter most



Public Surveillance



Transportation Surveillance



Harsh Environment Surveillance



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IP network cameras – a growing market

According to a study by the Academia.edu group, the worldwide video surveillance market is destined to increase in volume by nearly 25% between 2013 and 2018. Forecasts suggest that a steady rate of growth will continue into the foreseeable future, with a clear trend developing among system integrators who are moving away from analog systems to take advantage of the many benefits offered by new IP surveillance networks.



Why LevelOne for IP Surveillance?

LevelOne has a long-standing history as a leading vendor of innovative network solutions. We've taken the same progressive approach to the emerging digital surveillance market.

The LevelOne "total surveillance solution" includes a wide selection of network cameras, a comprehensive range of professional surveillance-management software packages, and an equally wide choice of quality Network Video Recorders (NVR) and Network Attached Storage (NAS) devices. We also provide all the necessary networking components like switches, PoE devices and accessories, which allow users to build an advanced surveillance network with guaranteed compatibility and technical support.

If you are searching for a high-quality surveillance monitoring solution, LevelOne offers a comprehensive range of networking products to satisfy all your technological needs.



Future-Proof Security Technology from LevelOne

Security cameras have become omnipresent in many countries. LevelOne's advanced IP surveillance systems provide a single environment that combines intelligent video analytics, universal IP connectivity to network cameras, access control devices and burglar alarm systems for day and night use. LevelOne helps users to attain a higher level of security than ever before - with less cost and less effort – making the home, the workplace and the streets safer for everyone.



Uncompromising Image Quality

Pure digital image, no image degradation. For instance, one 1.3 Megapixel camera can replace up to six analog cameras in many applications, like banks and petrol stations, and still produce a better recording of faces and registration plates.



Simple Connectivity

An IP based camera only needs to use one Cat.5 cable, whereas an analogue camera uses Coaxial cable to transfer video, an RS-485 cable to transfer the control signal and another cable for IO In/Out. IP cameras massively reduce the cost of installation, and the remote system access reduces the cost of maintenance and problem solving.



Distributing

Take snapshots of an intruder or an incident and send by e-mail to the police, or the appropriate authorities. In addition to this, images can be monitored from one central source, offering great efficiency and huge cost savings. Mobile monitoring is also widely available using the OneSecure software provided with each LevelOne camera.



Future Proof

IP surveillance is completely scalable, allowing expansion at an incremental cost when required. By integrating it fully with existing network infrastructure over single or multiple sites, users can ensure their investment is protected.



Remote Access/Live View

Able to broadcast live images to your handheld mobile phone or tablet and supports 3GPP/RSTP format via a 3G or 4G mobile phone.



Free Bundled Professional Software

All LevelOne network cameras come with free bundled software, providing a large range of comprehensive features. Users are able to monitor up to 64 channels simultaneously over the Internet.

The LevelOne Business IP network camera series

Whereas outdoor surveillance previously only appeared in banks or high-security areas, there is a growing realisation that high levels of surveillance in public areas can help deter crime and antisocial behaviour. In order to help protect communities from dangerous elements, LevelOne has developed an Enterprise level of network cameras. For outdoor camera network deployments, our products feature IP65 and higher-rated waterproof housing accessories to protect against even the most severe weather.

Applications

City Surveillance

LevelOne Advance Speed Dome Camera, which includes WDS(Wide Dynamic Range) for high contrast environments, infrared Illuminators for night viewing, motion detection and 360°continuous pan - all designed to build a safer city.



Transportation

LevelOne Fixed Camera and Fixed Dome Camera, providing live viewing and recording in crystal clear images. Provides effective, convenient monitoring of information – anywhere, at any time.






Retail Store & Coffee Shop

LevelOne offers a cost-effective, easy installation indoor P/T/Z camera, featuring flexible 355°pan, 135°tilt and 4x digital zoom functionality. The ideal solution for use in retail, coffee shops, hotel lobbies and warehouses, providing a secure environment for customers and staff.






Fixed Camera

The viewing direction of a fixed network camera usually offers a single, static viewing area once the camera is mounted. However, LevelOne fixed network cameras have several optional, exchangeable C/S mount types of lenses and outdoor housing, giving users the flexibility of changing the hardware to suit a number of diverse monitoring environments.

	Fixed Camera		
Models	FCS-1131	FCS-1152	FCS-5051
Product Image			
Name	Fixed Network Camera, PoE 802.3af, 2-Megapixel, Day & Night	Fixed Network Camera, 5-Megapixel, PoE 802.3af, Day & Night, WDR	Fixed Network Camera, IR LEDs, PoE 802.3af, IR LEDs, 2-Megapixel, Day & Night, Outdoor
LAN Connection	10/100Mbps	10/100Mbps	10/100Mbps
Wireless	-	-	-
Power Input	DC12V / 802.3af PoE	802.3af PoE	DC12V / AC24V / 802.3af PoE
Compression	H.264 / MJPEG	H.264 High Profile / MJPEG	H.264 / MJPEG
Max. Resolution & Frame Rate	1920x1080, 15 fps at 1920x1080; 30 fps at 1280x1024	2592x1944, 15 fps at 2592 x 1944; 15 fps at 2048x1536; 30 fps at 1920 x 1080; 30 fps at 1280 x 720; 30 fps at 640 x 480; 15 fps at 320 x 240	1920x1080, 15 fps at 1920x1080; 30 fps at 1280x1024
Horizontal View Angle	65.4°	70.9° - 29.2°	87.6°
Sensor	2-Megapixel 1/2.7" Progressive Scan CMOS	5-Megapixel 1/3.2" Progressive Scan CMOS	2-Megapixel 1/2.7" Progressive Scan CMOS
Lens	C/CS-mount, Fixed-focal, f=4.0mm, F1.5	Vari-focal, DC iris, Manual focus, f2.8-12mm, F1.4	Board lens, Fixed-focal, f=3.6mm, F1.5
Minimum Illumination	Color: 0.2 lux at F1.5 B/W: 0.02 lux at F1.5	Color: 0.1 lux at F1.4 B/W: 0.05 lux at F1.4"	Color: 0.2 lux at F1.5 B/W: 0.02 lux at F1.5
shutter (sec)	1~ 1/10,000	1/5 ~ 1/10,000	1~ 1/10,000
IRLED /Type/ Distance	-	-	V (25m)
ICR (IR-Cut Filter Removal)	V	V	V
AGC/AWB/AES	V	V	V
Wide Dynamic Range	Basic WDR (74 dB)	Basic WDR (74 dB)	Basic WDR (74 dB)
Digital Noise Reduction	3DNR	2DNR	3DNR
Privacy Mask	V	-	V
DDNS Support	V	V	V
Operation Temperature	-10°C ~ 50°C	-10°C ~ 50°C	-10°C ~ 50°C
Approvals	CE, FCC	CE, FCC	CE, FCC
Audio Codec	G.711 / G.726	G.711	G.711 / G.726
Audio	2-way (Line-in, Line-out)	-	2-way (Line-in, Line-out)
P/T/Z	- / - / Digital: 8x	Digital Zoom to very high detail available on Software	- / - / Digital:8x
Local storage	MicroSDHC card slot (card not included)	MicroSDHC/ MicroSDXC card slot (card not included)	Micro SD/SDHC card slot (card not included)
Cell Phone	3GPP / RTSP	RTSP	3GPP / RTSP
Web Browser	IE/Safari (Mac/iOS)/Firefox ¹	IE 8, IE 9, IE 10, IE 11, Firefox with VLC, Chrome with VLC, Safari with Quicktime	IE/Safari (Mac/iOS)/Firefox ¹
Optional Accessories	Outdoor Housing: BOH-1400 / BOH-1401 BOH-1410 / BOH-1411 Lens: CAS-1400	Bracket: CAS-3104	-
Digital I/O	1DI/ 1DO	1DI/ 1DO	1DI/ 1DO

V=Yes --No
 1. View your camera by http://camera_IP_Add:8008
 2. View your camera by http://camera_IP_Add/img/mjpeg.htm
 3. Java and QuickTime is required

Business Network Cameras

	Fixed Camera		
Models	FCS-5053	FCS-5054	FCS-5056
Product Image			
Name	Fixed Network Camera, 3-Megapixel, Outdoor, PoE 802.3af, Day & Night, IR LEDs	Fixed Network Camera, 3-Megapixel, PoE 802.3af, Outdoor, Day & Night, IR LEDs, WDR	Fixed Network Camera, 3-Megapixel, Outdoor, PoE 802.3af, Day & Night, IR LEDs, WDR
LAN Connection	10/100Mbps	10/100Mbps	10/100Mbps
Wireless	-	-	-
Power Input	802.3af PoE	802.3af PoE	802.3af PoE
Compression	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG
Max. Resolution & Frame Rate	2048 x 1536, 15 fps at 2048 x 1536; 30 fps at 1920 x 1080; 30 fps at 1280 x 720; 30 fps at 640 x 480; 15 fps at 320 x 240	2048 x 1536, 20 fps at 2048 x 1536; 30 fps at 1920 x 1080; 30 fps at 1280 x 720; 30 fps at 640 x 480; 15 fps at 320 x 240	2048 x 1536, 15 fps at 2048 x 1536; 30 fps at 1920 x 1080; 30 fps at 1280 x 720; 30 fps at 640 x 480; 15 fps at 320 x 240
Horizontal View Angle	62.7°	70.5°-28.8°	50.2° ~ 4.69°
Sensor	3-Megapixel 1/3.2" Progressive Scan CMOS	3-Megapixel 1/3" Progressive Scan CMOS	3-Megapixel 1/3.2" Progressive Scan CMOS
Lens	Fixed focal, Fixed iris, Fixed focus, f4.2mm, F1.8	Vari-focal, Fixed iris, Manual focus, f2.8-12mm, F1.4	Fixed focal, Fixed iris, Fixed focus, f4.2mm, F1.8
Minimum Illumination	Color: 0.1 lux at F1.8 B/W: 0 lux (IR LED on)	Color: 0.1 lux at F1.4 B/W: 0 lux (IR LED on)	Color: 0.1 lux at F1.8 B/W: 0 lux (IR LED on)
shutter (sec)	1/5 ~ 1/10,000	1/5 ~ 1/10,000	1/5 ~ 1/10,000
IRLED /Type/ Distance	V (20m)	V (30m)	V (30m)
ICR (IR-Cut Filter Removal)	V	V	V
AGC/AWB/AES	V	V	V
Wide Dynamic Range	-	Superior WDR (110 dB)	Basic WDR (74 dB)
Digital Noise Reduction	2DNR	2DNR	2DNR
Privacy Mask	-	-	-
DDNS Support	V	V	V
Operation Temperature	-40°C ~ 50°C	-40°C ~ 50°C	-40°C ~ 50°C
Approvals	CE, FCC, IP66	CE, FCC, IP67, IK10	CE, FCC, IP68, IK10, NEMA 4X
Audio Codec	G.711	G.711	G.711
Audio	-	2-way (Line-in, Line-out)	-
P/T/Z	Digital Zoom to very high detail available on Software	Digital Zoom to very high detail available on Software	Digital Zoom to very high detail available on Software
Local storage	-	MicroSDHC/MicroSDXC card slot (card not included)	MicroSDHC/MicroSDXC card slot (card not included)
Cell Phone	RTSP	RTSP	RTSP
Web Browser	IE 8, IE 9, IE 10, IE 11, Firefox with VLC, Chrome with VLC, Safari with Quicktime	IE 8, IE 9, IE 10, IE 11, Firefox with VLC, Chrome with VLC, Safari with Quicktime	IE 8, IE 9, IE 10, IE 11, Firefox with VLC, Chrome with VLC, Safari with Quicktime
Optional Accessories	Wall Mount kit: CAS-3103	Pole Mount kit: CAS-2504	Wall Mount kit: CAS-3103
Digital I/O	-	1DI/ 1DO	-

V=Yes --=No






1. View your camera by http://camera_IP_Add:8008
2. View your camera by http://camera_IP_Add/img/mjpeg.htm
3. Java and QuickTime is required

Fixed Camera			
FCS-5057	FCS-5064	FCS-5061	FCS-5063
			
Fixed Network Camera, 3-Megapixel, Outdoor, PoE 802.3af, Day & Night, IR LEDs, WDR	Fixed Network Camera, 5-Megapixel, Outdoor, PoE 802.3af, Day & Night, IR LEDs, WDR	Fixed Network Camera, IR LEDs, PoE+ 802.3af/at, 5-Megapixel, Day & Night, Outdoor	Fixed Network Camera, 5-Megapixel, Outdoor, PoE 802.3af, Day & Night, IR LEDs, WDR
10/100Mbps	10/100Mbps	10/100Mbps	10/100Mbps
-	-	-	-
802.3af PoE	802.3af PoE	AC24V / 802.3at PoE Plus	802.3af PoE
H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	H.264 / MPEG4	H.264 High Profile, MJPEG
2048x1536, 15 fps at 2048 x 1536; 30 fps at 1920 x 1080; 30 fps at 1280 x 720; 30 fps at 640 x 480; 15 fps at 320 x 240	2592x1944, 15 fps at 2592 x 1944; 15 fps at 2048 x 1536; 30 fps at 1920 x 1080; 30 fps at 1280 x 720; 30 fps at 640 x 480 ; 15 fps 320 x 240 ; 15 fps at 320 x 240	2592x1944, 10 fps at 2592x1944; 15 fps at 2048x1536; 30 fps at 1920x1080	2592x1944, 15 fps at 2592 x 1944; 15 fps at 2048 x 1536; 30 fps at 1920 x 1080; 30 fps at 1280 x 720; 30 fps at 640 x 480; 15 fps at 320 x 240
70.5° ~ 28.2°	69.2° ~ 28.2°	90°	62.7°
3-Megapixel 1/3.2" Progressive Scan CMOS	5-Megapixel 1/3.2" Progressive Scan CMOS	5-Megapixel 1/2.5" Progressive Scan CMOS	5-Megapixel 1/3.2" Progressive Scan CMOS
Vari-focal, Fixed iris, Manual focus, f2.8-12mm, F1.4	Vari-focal, Fixed iris, Manual focus, f2.8-12mm, F1.4	Board lens, fixed-focal, f=4.0 mm, F1.6	Fixed focal, Fixed iris, Fixed focus, f4.2mm, F1.8
Color: 0.1 lux at F1.4 B/W: 0 lux (IR LED on)	Color: 0.1 lux at F1.4 B/W: 0 lux (IR LED on)	Color: 0.1 lux at F1.6 B/W: 0 lux at F1.6	Color: 0.1 lux at F1.8 B/W: 0 lux (IR LED on)
1/5 ~ 1/10,000	1/5 ~ 1/10,000	1 ~ 1/10,000	1/5 ~ 1/10,000
V (30m)	V (30m)	V (25m)	V (30m)
V	V	V	V
V	V	V	V
Basic WDR (74 dB)	Basic WDR (74 dB)	Basic WDR (74 dB)	Basic WDR (74 dB)
2DNR	2DNR	3DNR	2DNR
-	-	V	-
V	V	V	V
-40°C ~ 50°C	-40°C ~ 50°C	-40°C ~ 50°C (AC 24V / PoE-Plus)	-40°C ~ 50°C
CE, FCC, IP68, IK10, NEMA 4X	CE, FCC, IP68, IK10, NEMA 4X	CE, FCC	CE, FCC, IP68, IK10, NEMA 4X
G.711	G.711	G.711 / G.726	G.711
2-way (Line-in, Line-out)	2-way (Line-in, Line-out)	2-way (Line-in, Line-out)	-
Digital Zoom to very high detail available on Software	Digital Zoom to very high detail available on Software	- / - / Digital: 8x	Digital Zoom to very high detail available on Software
MicroSDHC/MicroSDXC card slot (card not included)	MicroSDHC/MicroSDXC card slot (card not included)	Micro SD/SDHC card slot (card not included)	MicroSDHC/MicroSDXC card slot (card not included)
RTSP	RTSP	3GPP / RTSP	RTSP
IE 8, IE 9, IE 10, IE 11, Firefox with VLC, Chrome with VLC, Safari with Quicktime	IE 8, IE 9, IE 10, IE 11, Firefox with VLC, Chrome with VLC, Safari with Quicktime	IE/Safari (Mac/iOS) ¹ /Firefox ¹	IE 8, IE 9, IE 10, IE 11, Firefox with VLC, Chrome with VLC, Safari with Quicktime
Wall Mount kit: CAS-3103	Wall Mount kit: CAS-3103	-	Wall Mount kit: CAS-3103
1DI/ 1DO	1DI/ 1DO	1DI/ 1DO	-

Business Network Cameras

Zoom Camera




The zoom cameras feature optical zoom, enabling a closer view of the subject before taking the images. With 2/3DNR (2/3-Dimension Noise Reduction) and WDR (Wide Dynamic Range), this range produces highly reliable, crystal-clear images under any conditions. The perfect solution for day/night surveillance installations such as school campuses, railway stations and parking lots.

	Zoom Camera				
Models	FCS-1150	FCS-1160	FCS-5042	FCS-5055	FCS-5065
Product Image					
Name	Zoom Network Camera, 3-Megapixel, PoE 802.3af, Day & Night, 12x, WDR	Zoom Network Camera, 5-Megapixel, PoE 802.3af, Day & Night, 12x, WDR	Zoom Network camera, PoE 802.3af, IR LEDs, 2-Megapixel, Day & Night, Outdoor, 10x	Zoom Network Camera, 3-Megapixel, Outdoor, PoE 802.3af, Day & Night, IR LEDs, 12x, WDR	Zoom Network Camera, 5-Megapixel, Outdoor, PoE 802.3af, Day & Night, IR LEDs, 12x, WDR
LAN Connection	10/100Mbps	10/100Mbps	10/100Mbps	10/100Mbps	10/100Mbps
Wireless	-	-	-	-	-
Power Input	DC12V / 802.3af PoE	DC12V / 802.3af PoE	DC12V 1.5A / 802.3af PoE	DC 12V / 802.3af PoE	DC 12V / 802.3af PoE
Compression	H.264 Hihg Profile / MJPEG	H.264 Hihg Profile / MJPEG	H.264 / MPEG4 / MJPEG	H.264 Hihg Profile / MJPEG	H.264 Hihg Profile / MJPEG
Max. Resolution & Frame Rate	2048 x 1536, 20 fps at 2048 x 1536; 30 fps at 1920 x 1080; 30 fps at 1280 x 720; 30 fps at 640 x 480; 15 fps at 320 x 240	2592 x 1944, 15 fps at 2592 x 1944; 15 fps at 2048 x 1536; 30 fps at 1920 x 1080; 30 fps at 1280 x 720; 30 fps at 640 x 480; 15 fps at 320 x 240	1920 x 1080, 25 fps at 1920 x 1080	2048 x 1536, 20 fps at 2048 x 1536; 30 fps at 1920 x 1080; 30 fps at 1280 x 720; 30 fps at 640 x 480; 15 fps at 320 x 240	2592 x 1944, 15 fps at 2592 x 1944; 15 fps at 2048 x 1536; 30 fps at 1920 x 1080; 30 fps at 1280 x 720; 30 fps at 640 x 480; 15 fps at 320x240
Horizontal View Angle	50.2°-4.69°	48.4°-4.8°	Fov(D), 66.6° ~ 7.2°	50.2° ~ 4.69°	48.4° ~ 4.8°
Sensor	3-Megapixel 1/3" Progressive Scan CMOS	5-Megapixel 1/3.2" Progressive Scan CMOS	2-Megapixel 1/2.7" Progressive Scan CMOS	3-Megapixel 1/3" Progressive Scan CMOS	5-Megapixel 1/3" Progressive Scan CMOS
Lens	Zoom, DC iris, Auto focus, f5.2-62.4mm, F1.8-3.0	Zoom, DC iris, Auto focus, f5.2-62.4mm, F1.8-3.0	Zoom, Auto iris, Auto focus, f=4.9 ~ 49mm, F1.8 ~ 3.0	Zoom, DC iris, Auto focus, f5.2-62.4mm, F1.8-3.0	Zoom, DC iris, Auto focus, f5.2-62.4mm, F1.8-3.0
Minimum Illumination	Color: 0.1 lux B/W: 0.05 lux at F1.8	Color: 0.1 lux B/W: 0.05 lux at F1.8	Color: 1.0 lux at F2.0 B/W: 0 lux (IR LED on)	Color: 0.1 lux at F1.8 B/W: 0 lux (IR LED on)	Color: 0.1 lux at F1.8 B/W: 0 lux (IR LED on)
shutter (sec)	1/5 ~ 1/10,000	1/5 ~ 1/10,000	1 ~ 1/10,000	1/5 ~ 1/10,000	1/5 ~ 1/10,000
IRLED /Type/ Distance	-	-	V (30m)	V (40m)	V (40m)
ICR (IR-Cut Filter Removal)	V	V	V	V	V
AGC/AWB/AES	V	V	V	V	V
Wide Dynamic Range	Superior WDR (110 dB)	Basic WDR (74 dB)	Basic WDR (74 dB)	Superior WDR (110 dB)	Basic WDR (74 dB)
Digital Noise Reduction	2DNR	2DNR	3DNR	2DNR	2DNR
Privacy Mask	-	-	-	-	-
DDNS Support	V	V	V	V	V
Operation Temperature	-10°C ~ 50°C	-10°C ~ 50°C	-20°C ~ 50°C	-40°C ~ 50°C	-40°C ~ 50°C
Approvals	CE, FCC	CE, FCC	CE, FCC, IP66	CE, FCC, IP67, IK10, NEMA 4X	CE, FCC, IP67, IK10, NEMA 4X
Audio Codec	G.711	G.711	G.711 / AMR / AAC	G.711	G.711
Audio	2-way (Line-in, Line-out)	2-way (Line-in, Line-out)	2-way (External microphone)	2-way (Line-in, Line-out)	2-way (Line-in, Line-out)
P/T/Z	- / - / Optical: 12x	- / - / Optical: 12x	- / - / Optical: 10X, Digital: 4X	- / - / Optical: 12x	- / - / Optical: 12x
Local storage	MicroSDHC/MicroSDXC card slot (card not included)	MicroSDHC/MicroSDXC card slot (card not included)	MicroSDHC card slot (card not included)	MicroSDHC/MicroSDXC card slot (card not included)	MicroSDHC/MicroSDXC card slot (card not included)
Cell Phone	RTSP	RTSP	3GPP/ RTSP	RTSP	RTSP
Web Browser	IE 8, IE 9, IE 10, IE 11, Firefox with VLC, Chrome with VLC, Safari with Quicktime	IE 8, IE 9, IE 10, IE 11, Firefox with VLC, Chrome with VLC, Safari with Quicktime	IE 6.x or above/Firefox/Chrome/Safari	IE 8, IE 9, IE 10, IE 11, Firefox with VLC, Chrome with VLC, Safari with Quicktime	IE 8, IE 9, IE 10, IE 11, Firefox with VLC, Chrome with VLC, Safari with Quicktime
Optional Accessories	Bracket: CAS-3105	Bracket: CAS-3105	-	Pole Mount kit: CAS-2504. Ceiling Bracket: CAS-3300	Pole Mount kit: CAS-2504. Ceiling Bracket: CAS-3300
Digital I/O	1DI / 1DO	1DI / 1DO	-	1DI / 1DO	1DI / 1DO









- V=Yes --No
1. View your camera by http://camera_IP_Add:8008
 2. View your camera by http://camera_IP_Add/img/mjpeg.htm
 3. Java and QuickTime is required

Fixed Dome Camera

Compared to an ordinary network camera, fixed dome cameras are a compact device with dome housing, offering a discreet and unobtrusive design that can be installed on either a ceiling or wall. Furthermore, the design of the camera makes it hard to know which direction the camera is pointing, so it acts as an effective deterrent over a wide area. All LevelOne fixed dome cameras comply with IEEE 802.3af PoE standards for easy network deployment.






Fixed Dome Camera			
Models	FCS-3053	FCS-3054	FCS-3055
Product Image			
Name	Fixed Dome Network Camera, 3-Megapixel, PoE 802.3af, Day & Night, IR LEDs	Fixed Dome Network Camera, 3-Megapixel, PoE 802.3af	Fixed Dome Network Camera, 3-Megapixel, Outdoor, PoE 802.3af, Day & Night, IR LEDs, WDR
LAN Connection	10/100Mbps	10/100Mbps	10/100Mbps
Wireless	-	-	-
Power Input	802.3af PoE	802.3af PoE	802.3af PoE
Compression	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG
Max. Resolution & Frame Rate	2048 x 1536, 15 fps at 2048 x 1536; 30 fps at 1920 x 1080; 30 fps at 1280 x 720; 30 fps at 640 x 480; 15 fps at 320 x 240	2048 x 1536, 15 fps at 2048 x 1536; 30 fps at 1920 x 1080; 30 fps at 1280 x 720; 30 fps at 640 x 480; 15 fps at 320 x 240	2048 x 1536, 15 fps at 2048 x 1536; 30 fps at 1920 x 1080; 30 fps at 1280 x 720; 30 fps at 640 x 480; 15 fps at 320 x 240
Horizontal View Angle	72°	83.3°	70.5° - 28.2°
Sensor	3-Megapixel 1/3.2" Progressive Scan CMOS	3-Megapixel 1/3.2" Progressive Scan CMOS	3-Megapixel 1/3.2" Progressive Scan CMOS
Lens	Fixed focal, Fixed iris, Fixed focus, f3.6mm, F1.8	Fixed focal, Fixed iris, Fixed focus, f2.93mm, F2.0	Vari-focal, Fixed iris, Manual focus, f2.8-12mm, F1.4
Minimum Illumination	Color: 0.1 lux B/W: 0 lux (IR LED on) at F1.8	0.1 lux at F2.0	Color: 0.1 lux at F1.4 B/W: 0 lux (IR LED on)
shutter (sec)	1/5 ~ 1/10,000	1/5 ~ 1/10,000	1/5 ~ 1/10,000
IRLED /Type/ Distance	V (20m)	-	V (30m)
ICR (IR-Cut Filter Removal)	V	-	V
AGC/AWB/AES	V	V	V
Wide Dynamic Range	-	-	Basic WDR (74 dB)
Digital Noise Reduction	2DNR	2DNR	2DNR
Privacy Mask	-	-	-
DDNS Support	V	V	V
Operation Temperature	-10°C ~ 50°	-10°C ~ 50°	-40°C ~ 50°C
Approvals	CE, FCC	CE, FCC, IK08	CE, FCC, IP67, IK10, NEMA 4X
Audio Codec	-	G.711	G.711
Audio	-	-	2-way (Line-in, Line-out)
P/T/Z	Digital Zoom to very high detail available on Software	Digital Zoom to very high detail available on Software	Digital Zoom to very high detail available on Software
Local storage	-	MicroSDHC/MicroSDXC card slot (card not included)	MicroSDHC/MicroSDXC card slot (card not included)
Cell Phone	RTSP	RTSP	RTSP
Web Browser	IE 8, IE 9, IE 10, IE 11, Firefox with VLC, Chrome with VLC, Safari with Quicktime	IE 8, IE 9, IE 10, IE 11, Firefox with VLC, Chrome with VLC, Safari with Quicktime	IE 8, IE 9, IE 10, IE 11, Firefox with VLC, Chrome with VLC, Safari with Quicktime
Optional Accessories	Mount kit: CAS-2101, Wall Mount kit: CAS-2313, Flush Mount Kit: CAS-3002	-	Mount kit: CAS-2101, Wall Mount kit: CAS-2314, Flush Mount Kit: CAS-3002
Digital I/O	-	-	1DI/ 1DO

Business Network Cameras

	Fixed Dome Camera			
Model Image	FCS-3063	FCS-3064	FCS-3065	FCS-3071
Name	 	 	 	 
LAN Connection	Fixed Dome Network Camera, 5-Megapixel, PoE 802.3af, Day & Night, IR LEDs, WDR	Fixed Dome Network Camera, 5-Megapixel, PoE 802.3af, Day & Night, IR LEDs, WDR	Fixed Dome Network Camera, 5-Megapixel, PoE 802.3af, WDR	Fixed Dome Network Camera, PoE 802.3af, 2-Megapixel
Wireless	10/100Mbps	10/100Mbps	10/100Mbps	10/100Mbps
Power Input	-	-	-	-
Compression	802.3af PoE	802.3af PoE	802.3af PoE	802.3af PoE
Max. Resolution & Frame	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	H.264 / MJPEG
Rate	2592 x 1944, 15 fps at 2592 x 1944; 15 fps at 2048 x 1536; 30 fps at 1920 x 1080; 30 fps at 1280 x 720; 30 fps at 640 x 480; 15 fps at 320 x 240	2592 x 1944, 15 fps at 2592x1944; 15 fps at 2048 x 1536; 30 fps at 1920 x 1080; 30 fps at 1280 x 720; 30 fps at 640 x 480; 15 fps at 320 x 240	2592 x 1944, 15 fps at 2592 x 1944; 15 fps at 2048 x 1536; 30 fps at 1920 x 1080; 30 fps at 1280 x 720; 30 fps at 640 x 480; 15 fps at 320 x 240	1920 x 1080, 15 fps at 1920x1080; 30 fps at 1280x1024
Horizontal View Angle	72°	66.62° - 28.88°	126.9° (overview area), 77.4° (high detail area)	78°
Sensor	5-Megapixel 1/3.2" Progressive Scan CMOS	5-Megapixel 1/3.2" Progressive Scan CMOS	5-Megapixel 1/3.2" Progressive Scan CMOS	2-Megapixel 1/2.7" ProgressiveScan CMOS
Lens	Fixed focal, Fixed iris, Fixed focus, f3.6mm, F1.8	Vari-focal, Fixed iris, Manual focus, f2.8-12mm, F1.4	Fixed focal, Fixed iris, Fixed focus, f1.9mm, F2.8	Board lens, Fixed-focal, f=4.0mm, F1.5
Minimum Illumination	Color: 0.1 lux at F1.8 B/W: 0 lux (IR LED on)	Color: 0.1 lux at F1.4 B/W: 0 lux (IR LED on)	0.1 lux at F2.8	Color: 0.2 lux at F1.5 B/W: 0.02 lux at F1.5
shutter (sec)	1/5 ~ 1/10,000	1/5 ~ 1/10,000	1/5 ~ 1/10,000	1 ~ 1/10,000
IRLED /Type/ Distance	V (30m)	V (30m)	-	-
ICR (IR-Cut Filter Removal)	V	V	-	-
AGC/AWB/AES	V	V	V	V
Wide Dynamic Range	Basic WDR (74 dB)	Basic WDR (74 dB)	Basic WDR (74 dB)	-
Digital Noise Reduction	2DNR	2DNR	2DNR	3DNR
Privacy Mask	-	-	-	V
DDNS Support	V	V	V	V
Operation Temperature	-10°C ~ 50°	-10°C ~ 50°	-10°C ~ 50°	-10°~50°
Approvals	CE, FCC	CE, FCC, IK09	CE, FCC, IK08	CE, FCC, IP66
Audio Codec	G.711	G.711	G.711	G.711 / G.726
Audio	-	2-way (Line-in, Line-out)	-	-
P/T/Z	Digital Zoom to very high detail available on Software	Digital Zoom to very high detail available on Software	Digital Zoom to very high detail available on Software	- / - / Digital: 8x
Local storage	-	MicroSDHC/MicroSDXC card slot (card not included)	MicroSDHC/MicroSDXC card slot (card not included)	Micro SD/ SDHC card slot (card not included)
Cell Phone	RTSP	RTSP	RTSP	3GPP/ RTSP
Web Browser	IE 8, IE 9, IE 10, IE 11, Firefox with VLC, Chrome with VLC, Safari with Quicktime	IE 8, IE 9, IE 10, IE 11, Firefox with VLC, Chrome with VLC, Safari with Quicktime	IE 8, IE 9, IE 10, IE 11, Firefox with VLC, Chrome with VLC, Safari with Quicktime	IE/Safari (Mac/iOS) /Firefox ¹
Optional Accessories	Mount kit: CAS-2101, Wall Mount kit: CAS-2313, Flush Mount Kit: CAS-3002	Mount kit: CAS-2101, Wall Mount kit: CAS-2313, Flush Mount Kit: CAS-3001	-	-
Digital I/O	-	1DI / 1DO	-	-





V=Yes --No

1. View your camera by http://camera_IP_Add:8008
2. View your camera by http://camera_IP_Add/img/mjpeg.htm
3. Java and QuickTime is required

Fixed Dome Camera				
FCS-3072	FCS-3081	FCS-3082	FCS-3083	FCS-3101
				
Fixed Dome Network Camera, 5-Megapixel, Outdoor, PoE 802.3af, WDR, Vandalproof, Vibrationproof	Fixed Dome Network Camera, IR LEDs, PoE 802.3af, 2-Megapixel, Day & Night	Fixed Dome Network Camera, 3-Megapixel, Outdoor, PoE 802.3af, Day & Night, IR LEDs, WDR	Fixed Dome Network Camera, 5-Megapixel, Outdoor, PoE 802.3af, Day & Night, IR LEDs, WDR	Fixed Dome Network Camera, IR LEDs, PoE 802.3af, 2-Megapixel, Day & Night
10/100Mbps	10/100Mbps	10/100Mbps	10/100Mbps	10/100Mbps
-	-	-	-	-
802.3af PoE	DC12V / AC24V / 802.3af PoE	802.3af PoE	802.3af PoE	DC12V 1.5A / AC24V / 802.3af PoE
H.264 Hihg Profile / MJPEG	H.264 / MJPEG	H.264 Hihg Profile / MJPEG	H.264 Hihg Profile / MJPEG	H.264, MPEG4, MJPEG
2592 x 1944, 15 fps at 2592x1944; 15 fps at 2048 x 1536; 30 fps at 1920 x 1080; 30 fps at 1280 x 720; 30 fps at 640 x 480; 15 fps at 320 x 240	1920 x 1080, 15 fps at 1920x1080; 30 fps at 1280x1024	2048 x 1536, 20 fps at 2048 x 1536; 30 fps at 1920 x 1080; 30 fps at 1280 x 720; 30 fps at 640 x 480; 15 fps at 320 x 240	2592 x 1944, 15 fps at 2592 x 1944; 15 fps at 2048 x 1536; 30 fps at 1920 x 1080; 30 fps at 1280 x 720; 30 fps at 640 x 480; 15 fps at 320 x 240	1920 x 1080, 30 fps at 1920 x 1080; 30 fps at 1280 x 720; 30 fps at 640 x 480; 15 fps at 320 x 240
126.9° (overview area), 77.4° (high detail area)	103.5°(W) ~ 34.3°(T)	70.5° - 28.8°	69.2° - 28.2°	62°
5-Megapixel 1/3.2" Progressive Scan CMOS	2-Megapixel 1/2.7" Progressive Scan CMOS	3-Megapixel 1/3" Progressive Scan CMOS	5-Megapixel 1/3.2" Progressive Scan CMOS	2-Megapixel 1/2.7" Progressive Scan CMOS
Fixed focal, Fixed iris, Fixed focus, f1.9mm, F2.8 Color: 0.1 lux B/W: 0.05 lux at F2.8 1/5 ~ 1/10,000	Board lens, Vari-focal, f=3-9mm, F1.2 Color: 0.2 lux at F1.2 B/W: 0.02 lux at F1.2 1 ~ 1/10,000	Vari-focal, Fixed iris, Manual focus, f2.8-12mm, F1.4 Color: 0.1 lux at F1.4 B/W: 0 lux (IR LED on) 1/5 ~ 1/10,000	Vari-focal, Fixed iris, Manual focus, f2.8-12 mm, F1.4 Color: 0.1 lux at F1.4 B/W: 0 lux (IR LED on) 1/5 ~ 1/10,000	Board lens, Fixed-focal, f=4.0mm, F2.0 Color: 0.1 lux at F2.0 B/W: 0 lux (IR LED on) 1/30 ~ 1/1,000,000
-	V (25m)	V (30m)	V (30m)	V (10m)
-	V	V	V	V
Basic WDR (74 dB)	Basic WDR (74 dB)	Superior WDR (110 dB)	Basic WDR (74 dB)	Basic WDR (74 dB)
2DNR	3DNR	2DNR	2DNR	2DNR
-	V	-	-	-
V	V	V	V	V
-20°~50°	-10°~50°C (DC 12V/ PoE-Plus) -35°~50°C (AC 24V)	-40°C ~ 50°C	-40°C ~ 50°C	0°C ~40°C
CE, FCC, IP68, IK10, NEMA 4X, EN50155 G.711	CE, FCC, IP66 G.711 / G.726	CE, FCC, IP67, IK10, NEMA 4X G.711	CE, FCC, IP67, IK10, NEMA 4X G.711	CE, FCC AMR / AAC
1-way (Mic-in)	2-way (Line-in, Line-out)	2-way (Line-in, Line-out)	2-way (Line-in, Line-out)	1-way (Built-in Microphone)
Digital Zoom to very high detail available on Software	- / - / Digital: 8x	Digital Zoom to very high detail available on Software	Digital Zoom to very high detail available on Software	-
MicroSDHC/MicroSDXC card slot (card not included)	Micro SD/ SDHC card slot (card not included)	MicroSDHC/MicroSDXC card slot (card not included)	MicroSDHC/MicroSDXC card slot (card not included)	MicroSDHC card slot (card not included)
RTSP	3GPP/ RTSP	RTSP	RTSP	3GPP/ RTSP
IE 8, IE 9, IE 10, IE 11, Firefox with VLC, Chrome with VLC, Safari with Quicktime	IE/Safari (Mac/iOS) ¹ /Firefox ¹	IE 8, IE 9, IE 10, IE 11, Firefox with VLC, Chrome with VLC, Safari with Quicktime	IE 8, IE 9, IE 10, IE 11, Firefox with VLC, Chrome with VLC, Safari with Quicktime	IE 6.x or above/Firefox/Chrome/Safari
-	Wall Mount kit: CAS-3101/CAS-3201/CAS-3221 Pole Mount kit: CAS-3261 Ceiling Mount kit: CAS-3100/CAS-3241/CAS-3242 Outdoor Housing: CAS-3000	Mount kit: CAS-2101, Wall Mount kit: CAS-2314, Flush Mount Kit: CAS-3001	Mount kit: CAS-2101, Wall Mount kit: CAS-2314, Flush Mount Kit: CAS-3001	-
-	1DI/ 1DO	1DI/ 1DO	1DI/ 1DO	-

Panoramic Dome Camera






The Panoramic Dome Camera allows you to monitor all angles of a location using just one camera. It features a fish-eye lens for a 360° panoramic wide angle view without blind spots. The panoramic coverage ability enables a cost-effective deployment, as fewer cameras need to be installed and maintenance therefore becomes easier and cheaper. It is a perfect solution for stores, schools, offices and lobby applications.

	Panoramic Dome Camera			
Models	FCS-3091	FCS-3092	FCS-3093	FCS-3094
Product Image				
Name	Panoramic Dome Network Camera, PoE 802.3af, 2-Megapixel, Day & Night	Panoramic Dome Network Camera, 5-Megapixel, PoE 802.3af, WDR	Panoramic Dome Network Camera, 5-Megapixel, Outdoor, PoE 802.3af, WDR, Vandalproof, Vibrationproof	Panoramic Dome Network Camera, 10-Megapixel, PoE 802.3af, Day & Night, WDR
LAN Connection	10/100Mbps	10/100Mbps	10/100Mbps	10/100Mbps
Wireless	-	-	-	-
Power Input	DC12V 2A / 802.3af PoE	802.3af PoE	802.3af PoE	DC 12V / 802.3af PoE
Compression	H.264 / MJPEG	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG
Max. Resolution & Frame Rate	1600 x 1200, 15 fps for all resolutions	2592 x 1944, 15 fps for all resolutions	2592 x 1944, 15 fps for all resolutions	3648 x 2736, 7 fps for all resolutions
Horizontal View Angle	180°	180° (overview area), 109.8° (high detail area)	180° (overview area), 109.8° (high detail area)	180° (overview area), 109.8° (high detail area)
Sensor	2-Megapixel 1/3.2" Progressive Scan CMOS	5-Megapixel 1/3.2" Progressive Scan CMOS	5-Megapixel 1/3.2" Progressive Scan CMOS	10-Megapixel 1/2.3" Progressive Scan CMOS
Lens	Fish-eye lens, f=1.25mm, F2.0	Fixed focal, Fixed iris, Fixed focus, f1.19mm, F2.0	Fixed focal, Fixed iris, Fixed focus, f1.19mm, F2.0	Fixed focal, Fixed iris, Fixed focus, f1.37mm, F2.0
Minimum Illumination	1.5 lux at F2.0	0.1 lux at F2.0	Color: 0.1 lux B/W: 0.05 lux at F2.0	Color: 0.1 lux at F2.0 B/W: 0.05 lux at F2.0
shutter (sec)	2~1/40,000	1/5 ~ 1/10,000	1/5 ~ 1/10,000	1/5 ~ 1/10,000
IRLED /Type/ Distance	-	-	-	-
ICR (IR-Cut Filter Removal)	V	-	-	V
AGC/AWB/AES	V	V	V	V
Wide Dynamic Range	-	Basic WDR (74 dB)	Basic WDR (74 dB)	Basic WDR (70 dB)
Digital Noise Reduction	2DNR	2DNR	2DNR	2DNR
Privacy Mask	-	-	-	-
DDNS Support	V	V	V	V
Operation Temperature	0° ~ 50°C	-10°C ~ 50°C	-20°C ~ 50°C	-10°C ~ 50°C
Approvals	CE, FCC	CE, FCC, IK08	CE, FCC, IP68, IK10, NEMA 4X, EN50155	CE, FCC
Audio Codec	G.711 / AAC	-	G.711	G.711
Audio	2-way (Line-in, Line-out)	-	1-way (Mic-in)	2-way (Line-in, Line-out)
P/T/Z	- / - / Digital: 10x	Digital Zoom to very high detail available on Software	Digital Zoom to very high detail available on Software	Digital Zoom to very high detail available on Software
Local storage	Micro SD/SDHC card slot (card not included)	MicroSDHC/MicroSDXC card slot (card not included)	MicroSDHC/MicroSDXC card slot (card not included)	MicroSDHC/MicroSDXC card slot (card not included)
Cell Phone	3GPP / RTSP	RTSP	RTSP	RTSP
Web Browser	IE 7 or above	IE 8, IE 9, IE 10, IE 11, Firefox with VLC, Chrome with VLC, Safari with Quicktime	IE 8, IE 9, IE 10, IE 11, Firefox with VLC, Chrome with VLC, Safari with Quicktime	IE 8, IE 9, IE 10, IE 11, Firefox with VLC, Chrome with VLC, Safari with Quicktime
Optional Accessories	-	-	-	Mount kit: CAS-2101, Wall Mount kit: CAS-2313, Flush Mount Kit: CAS-3003
Digital I/O	4DI / 1DO	-	-	1DI / 1DO

V=Yes --=No

PTZ Dome Camera

LevelOne PTZ Speed Dome Camera provides full Pan/Tilt/Zoom capabilities, allowing for 360° continuous monitoring or can be set to remote control when the user needs to actively follow a person or object. Moreover, the camera is rugged, with weather-proof housing protecting the camera body against rain and dust. Suitable for monitoring wide open indoor or outdoor applications such as airports, highways or for city security.

	PTZ Dome Camera				
Models	FCS-4041	FCS-4042	FCS-4043	FCS-4044	FCS-4101
Product Image					
Name	PTZ Dome Network Camera, PoE+ 802.3af/at, 2-Megapixel, Outdoor, Day & Night, 18x	PTZ Dome Network Camera, PoE+ 802.3af/at, 2-Megapixel, Outdoor, 30x	PTZ Dome Network Camera, 3-Megapixel, Outdoor, PoE 802.3af, Day & Night, 10x, WDR	PTZ Dome Network Camera, 5-Megapixel, PoE 802.3af, Outdoor, Day & Night, 10x, WDR	PT Dome Network Camera, IR LEDs, PoE 802.3af, 2-Megapixel, Day & Night
LAN Connection	10/100Mbps	10/100Mbps	10/100Mbps	10/100Mbps	10/100Mbps
Wireless	-	-	-	-	-
Power Input	PoE-Plus 802.3at / 24VAC (Heater needs powered by 24VAC)	AC24V / 802.3at PoE	DC12V / 802.3af PoE	DC12V / 802.3af PoE	DC12V 1.5A / AC24V / 802.3af PoE
Compression	H.264 / MJPEG	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	H.264, MPEG4, MJPEG
Max. Resolution & Frame Rate	1920 x 1080, 30/25 fps at 1920 x 1080; 60/50 fps at 1280 x 720	1920 x 1080, 30 fps at 1920 x 1080; 30 fps at 1280 x 720; 30 fps at 640 x 480; 15 fps at 320 x 240	2048 x 1536, 15 fps at 2048 x 1536; 30 fps at 1920 x 1080; 30 fps at 1280 x 720; 30 fps at 640 x 480; 15 fps at 320 x 240	2592 x 1944, 15 fps at 2592 x 1944; 15 fps at 2048 x 1536; 30 fps at 1920 x 1080; 30 fps at 1280 x 720; 30 fps at 640 x 480; 15 fps at 320 x 240	1920 x 1080, 30 fps at 1920 x 1080; 30 fps at 1280 x 720; 30 fps at 640 x 480; 15 fps at 320 x 240
Horizontal View Angle	55.2°(wide) ~ 5.2° (tele) (horizontal)	66.4° - 2.61°	49.56 - 5.62°	49.69 - 5.83°	62°
Sensor	2-Megapixel 1/2.8" Progressive Scan CMOS	2-Megapixel 1/2.8" Progressive Scan CMOS	3-Megapixel 1/3" Progressive Scan CMOS	5-Megapixel 1/3.2" Progressive Scan CMOS	2-Megapixel 1/2.7" Progressive Scan CMOS
Lens	Auto-iris, Auto focus, f = 4.7 ~ 84.6 mm, F1.6 (wide), F2.8(tele), focus range: 1 m (wide), 1m (tele) to infinity	Zoom, DC iris, Auto focus, f4.3-129mm, F1.6-5.0	Zoom, DC iris, Auto focus, f4.9-49mm, F1.8-3.0	Zoom, DC iris, Auto focus, f4.9-49mm, F1.8-3.0	Board lens, Fixed-focal, f=4.0 mm, F2.0
Minimum Illumination	0.3 Lux / F1.6 (Color) 0.04 Lux / F1.6 (B/W)	0.1 Lux / F1.6 (Color) 0.05 Lux / F1.6 (B/W)	0.1 Lux / F1.8 (Color) 0.05 Lux / F1.8 (B/W)	0.1 Lux / F1.8 (Color) 0.05 Lux at F1.8 (B/W)	1.0 Lux / F2.0 1/30 ~ 1/120 (Indoor)
shutter (sec)	1/30~1/30,000 (NTSC) 1/25~1/30,000 (PAL)	1/5 ~ 1/10,000	1/5 ~ 1/10,000	1/5 ~ 1/10,000	1/30 ~ 1/1,000,000 (Outdoor)
IRLED /Type/ Distance	-	-	-	-	V (10m)
ICR (IR-Cut Filter Removal)	V	V	V	V	V
AGC/AWB/AES	V	V	V	V	V
Wide Dynamic Range	Basic WDR (74 dB)	Extreme WDR (145 dB)	Superior WDR (110 dB)	Basic WDR (74 dB)	Basic WDR (74 dB)
Digital Noise Reduction	2DNR/3DNR	2DNR/3DNR	2DNR	2DNR	2DNR
Privacy Mask	V	V	-	-	-
DDNS Support	V	V	V	V	-
Operation Temperature	-10°~50°C (PoE-Plus) -40°~50°C (AC 24V)	-40°C ~ 50°C	-20°C ~ 50°C	-20°C ~ 50°C	0°C ~ 40°C
Approvals	CE, FCC, IP66, RoHS	CE, FCC, IP67, IK09, NEMA 4X	CE, FCC, IP67, NEMA 4X	CE, FCC, IP67, NEMA 4X	CE, FCC
Audio Codec	G.711 / G.726 ADPCM/AAC	G.711	G.711	G.711	AMR / AAC
Audio	2-way (Line-in, Line-out)	2-way (Line-in, Line-out)	2-way (Line-in, Line-out)	2-way (Line-in, Line-out)	2-way (Line-in, Line-out)
P/T/Z	360° continuous / -10°~ +190° / Optical: 18x	360° / -20° ~ 200° / Optical: 30X, Digital: 16X	-175° ~ 175° / 0° ~ 180° / Optical: 10X	-175° ~ 175° / 0° ~ 180° / Optical: 10X	200° / 70° / -
Local storage	Micro SD/SDHC card slot (card not included)	MicroSDHC/MicroSDXC card slot (card not included)	MicroSDHC/MicroSDXC card slot (card not included)	MicroSDHC/MicroSDXC card slot (card not included)	MicroSDHC card slot (card not included)
Cell Phone	3GPP/ RTSP	RTSP	RTSP	RTSP	3GPP/ RTSP
Web Browser	IE/Safari (Mac/OS)/Firefox/Chrome	IE 8, IE 9, IE 10, IE 11, Firefox with VLC, Chrome with VLC, Safari with Quicktime	IE 8, IE 9, IE 10, IE 11, Firefox with VLC, Chrome with VLC, Safari with Quicktime	IE 8, IE 9, IE 10, IE 11, Firefox with VLC, Chrome with VLC, Safari with Quicktime	IE 6.x or above/Firefox/Chrome/Safari
Optional Accessories	Wall Mount kit: CAS-3222/CAS-3223/CAS-3281 Pole Mount kit: CAS-3261/CAS-3263 Ceiling Mount kit: CAS-3241/CAS-3242 Outdoor Power Box: CAS-3291/CAS-3292	Wall Mount Bracket: CAS-4312	Mount kit: CAS-2101, Flush Mount kit: CAS-3004	Mount kit: CAS-2101, Flush Mount kit: CAS-3004	-
Digital I/O	4DI / 2 DO	4DI / 2 DO	1DI / 1DO	1DI / 1DO	-

V=Yes --No

The LevelOne Home & Small Office IP network camera series

We are putting the power of home and office surveillance in your hands. LevelOne offers all the products you need to build a reliable system to monitor your home: wired, wireless, pan/tilt/zoom, as well as indoor and outdoor options . In addition, our cameras come with free 64-channel surveillance software that enables the user to view, manage, and capture streaming images from any location with an internet connection.

Applications

Surveillance of a small office: meeting rooms, back door and garage. Surveillance of your house: entrance area (front door, intercom), baby's room, bedrooms, as well as effectively securing areas with limited visibility or monitoring a vacation property. Make a visual circuit with potential rental customers at the same time.



Offices

Easy installation is essential

All LevelOne IP cameras contain an installation wizard to help you get started. Only a few clicks and you get access to live pictures in high resolution. Equipped with the newest technology, audio/video streams are transferred into real time. Bundled with the 64-channel software, you can supervise and configure up to 64 cameras at the same time



Living Room

Motion Detection and E-mail Alerts




Users can set up motion-detection regions with LevelOne network cameras, each with adjustable size and sensitivity. When motion is detected at the specified regions, the system can send an E-mail alert or send captured images via FTP upload to a designated storage server.



Keep an eye on your home while away

Fixed Camera

With a LevelOne home/small office fixed IP camera, users can easily set up 24/7 security and surveillance in different applications for different needs, monitoring any specified area to prevent unwelcome entry. The FCS-0071 features a fish-eye lens for 180° panoramic view (wall mount) or 360° surround view (ceiling/floor/table mount) without blind spots which enables customer to significantly reduce the need for multiple camera installations.




	Fixed Camera		Panoramic Camera
Models	FCS-0032	FCS-0051	FCS-0071
Product Image			
Name	Fixed Network Camera, 3-Megapixel, PoE 802.3af	Fixed Network Camera, 5-Megapixel, PoE 802.3af, WDR	Panoramic Network Camera, PoE 802.3af, 2-Megapixel, Day & Night
LAN Connection	10/100Mbps	10/100Mbps	10/100Mbps
Wireless	-	-	-
Power Input	802.3af PoE	802.3af PoE	DC12V 2A / 802.3af PoE
Compression	H.264 High Profile / MJPEG	H.264 High Profile, MJPEG	H.264, MJPEG
Max. Resolution & Frame Rate	2048 x 1536, 15 fps at 2048 x 1536; 30 fps at 1920 x 1080; 30 fps at 1280 x 720; 30 fps at 640 x 480; 15 fps at 320x240	2592 x 1944, 15 fps at 2592 x 1944; 15 fps at 2048 x 1536; 30 fps at 1920 x 1080; 30 fps at 1280 x 720; 30 fps at 640 x 480; 15 fps at 320 x 240	1600 x 1200, 30/25 fps at 1280 x 720
Horizontal View Angle	70.8°	92.6°	360°
Sensor	3-Megapixel 1/3.2" Progressive Scan CMOS	5-Megapixel 1/3.2" Progressive Scan CMOS	2-Megapixel 1/3" Progressive CMOS
Lens	Fixed focal, Fixed iris, Fixed focus, f3.6mm, F2.0	Fixed focal, Fixed iris, Manual focus, f2.8mm, F2.0,	Fish-Eye Lens Focal Length: F2.0 / f = 1.25 mm
Minimum Illumination	0.1 lux at F2.0	0.1 lux at F2.0	1.5lux at F2.0
shutter (sec)	1/5 ~ 1/10,000	1/5 ~ 1/10,000	2~ 1/40,000
IRLED /Type/ Distance	-	-	-
ICR (IR-Cut Filter Removal)	-	-	V
AGC/AWB/AES	V	V	V
Wide Dynamic Range	-	Basic WDR (74 dB)	-
Digital Noise Reduction	2DNR	2DNR	2DNR
Privacy Mask	-	-	-
DDNS Support	V	V	V
Operation Temperature	-10°C ~ 45°C	-10°C ~ 45°C	0°C ~ 50°C
Approvals	CE, FCC	CE, FCC	CE, FCC
Audio Codec	G.711	G.711	G.711 / ACC
Audio	-	2-way (Built-in Microphone, Line-out)	2-way (Line-in, Line-out)
P/T/Z	Digital Zoom to very high detail available on Software	Digital Zoom to very high detail available on Software	- / - / Optical: 10x
Local storage	-	MicroSDHC/MicroSDXC card slot (card not included)	Micro SD/SDHC card slot (card not included)
Cell Phone	RTSP	RTSP	3GPP / RTSP
Web Browser	IE 8, IE 9, IE 10, IE 11, Firefox with VLC, Chrome with VLC, Safari with Quicktime	IE 8, IE 9, IE 10, IE 11, Firefox with VLC, Chrome with VLC, Safari with Quicktime	IE 7.0 above
Optional Accessories	-	-	-
Digital I/O	-	-	1DI / 1DO

V=Yes - =No

Lens & Outdoor Enclosure

PT Camera

LevelOne Offers wired and wireless PT cameras for users to monitor a home or office from distant locations at any time. Users can easily alter their monitoring angle or area with a mobile phone (PDA, Smart phone), and with the help of Infrared Illuminator LED, users are able to survey a wide range of targets even in total darkness.

	PT Camera		
Models	FCS-6020	WCS-6020	WCS-6050
Product Image			
Name	PT Network Camera, Day & Night, PoE 802.3af, IR LEDs, 2-Megapixel	PT Network Camera, IR LEDs, 150Mbps 802.11b/g/n, 2-Megapixel, Day & Night	PT Network Camera, IR LEDs, 150Mbps 802.11b/g/n, 5-Megapixel, Day & Night
LAN Connection	10/100Mbps	10/100Mbps	10/100Mbps
Wireless	-	802.11b/g/n	802.11b/g/n
Power Input	DC12V 1.5A	DC12V 1.5A	DC12V 1.5A
Compression	H.264, MPEG4, MJPEG	H.264, MPEG4, MJPEG	H.264, MJPEG
Max. Resolution & Frame Rate	1920 x 1080, 30 fps at 1920x1080	1920 x 1080, 30 fps at 1920x1080	2560 x 1920, 10 fps at 2560x1920; 30 fps at 1920x1080
Horizontal View Angle	62°	62°	62°
Sensor	2-Megapixel 1/2.7" Progressive Scan CMOS	2-Megapixel 1/2.7" Progressive Scan CMOS	5-Megapixel 1/3.2" Progressive Scan CMOS
Lens	Board lens, fixed-focal, f=4.0 mm, F2.0	Board lens, fixed-focal, f=4.0 mm, F2.0	Board lens, fixed-focal, f=4.0 mm, F2.0
Minimum Illumination	Color: 1.5 lux at F2.0 B/W: 1.0 lux at F2.0	Color: 1.5 lux at F2.0 B/W: 1.0 lux at F2.0	Color: 1.5 lux at F2.0 B/W: 1.0 lux at F2.0
shutter (sec)	1 ~ 1/10,000	1 ~ 1/10,000	1 ~ 1/10,000
IRLED /Type/ Distance	V (10m)	V (10m)	V (10m)
ICR (IR-Cut Filter Removal)	V	V	V
AGC/AWB/AES	V	V	V
Wide Dynamic Range	-	-	-
Digital Noise Reduction	2DNR	2DNR	2DNR
Privacy Mask	-	-	-
DDNS Support	V	V	V
Operation Temperature	0°C ~ 40°C	0°C ~ 40°C	0°C ~ 40°C
Approvals	CE, FCC	CE, FCC	CE, FCC
Audio Codec	G.711 / AMR	G.726 / AMR	G.711 / AMR
Audio	2-way (Built-in Microphone, Line-out)	2-way (Built-in Microphone, Line-out)	2-way (Built-in Microphone, Line-out)
P/T/Z	355° / 135°/-	355° / 135°/-	355° / 135°/-
Local storage	SD/SDHC card slot & USB port (card not included)	SD/SDHC card slot & USB port (card not included)	SD/SDHC card slot & USB port (card not included)
Cell Phone	3GPP / RTSP	3GPP / RTSP	3GPP / RTSP
Web Browser	IE 6.x or above/Firefox/Chrome/Safari	IE 6.x or above/Firefox/Chrome/Safari	IE 6.x or above/Firefox/Chrome/Safari
Optional Accessories	-	-	-
Digital I/O	1DI / 1DO	1DI / 1DO	1DI / 1DO

V=Yes - =No

1. View your camera by http://camera_IP_Add:8008
2. View your camera by http://camera_IP_Add/img/mjpeg.htm
3. Java and QuickTime is required

Lens

LevelOne offers a variety of optional C/S mount lenses for diverse monitoring conditions, or to meet any special surveillance requirement



CAS-1200 3~8mm Vari-focal Lens

- Sensing Area: 1/3" CCD
- Iris: DC-drive Auto Iris
- Diagonal: 118.7°~44.1°
- Horizontal: 93.4°~34.6°
- Vertical: 68.7°~26.0°



CAS-1300 2.8~8.5mm Vari-focal Day/Night Megapixel Lens

- Sensing Area: 1/3" CCD
- Iris: DC-drive Auto Iris
- Diagonal: 118.1°~41.7°
- Horizontal: 95.4°~33.5°
- Vertical: 71.3°~25.0°

Outdoor Enclosure

The LevelOne Outdoor Enclosure is an excellent addition to any surveillance network, providing superior outdoor performance



BOH-1400 Camera PoE Outdoor Enclosure

- Weatherproof IP66-rated with wide operating temperature (-20°C to 50°C) for harsh environments
- Vandal-proof IK10-rated housing
- Power support: High Power PoE
- Works with LevelOne POI-4000 & FSW-0513



BOH-1401 Camera PoE Outdoor Enclosure, IR LEDs

- Weatherproof IP66-rated with wide operating temperature (-20°C to 50°C) for harsh environments
- Vandal-proof IK10-rated housing
- Built-in infrared LEDs for night viewing up to 50m
- Power support: High Power PoE
- Works with LevelOne POI-4000 & FSW-0513



BOH-1410 Camera PoE Outdoor Enclosure, FEVE Coating

- FEVE coating application enhance UV and acid protection
- Weatherproof IP66-rated with wide operating temperature (-20°C to 50°C) for harsh environments
- Vandal-proof IK10-rated housing
- Power support: High Power PoE
- Works with LevelOne POI-4000 & FSW-0513



BOH-1411 Camera PoE Outdoor Enclosure, IR LEDs, FEVE Coating

- FEVE coating application enhance UV and acid protection
- Weatherproof IP66-rated with wide operating temperature (-20°C to 50°C) for harsh environments
- Vandal-proof IK10-rated housing
- Built-in infrared LEDs for night viewing up to 50m
- Power support: High Power PoE
- Works with LevelOne POI-4000 & FSW-0513



DOH-1000 Domed Outdoor Housing

- Designed for Indoor/outdoor applications
- IP66 rated camera outdoor dome housing
- Lightweight for Mounting on the wall
- Easy access for service and installation
- Withstands severe weather
- Low Cost



DOH-1100 Heavy-Duty Domed Outdoor Housing

- Heavy-duty aluminium dome for outdoor and indoor installation
- 2-layer dome design keeps cameras cool
- Special fluorocarbon coating resists harsh acids and bases (i.e. salt water)
- Auto-sensing fan and heater for internal temperature control
- Vandal-proof polycarbonate cover
- IP-66 rated protection level

Optional Accessories

Optional Accessories

LevelOne offers a wide range of optional accessories to help users set up a complete IP surveillance solution.



Model: CAS-2101
Description: Mount Kit for all Dome Cameras
Works with: FCS-3053/FCS-3055/
FCS-3063/FCS-3064/FCS-3082/
FCS-3083/FCS-3094/FCS-4043/
FCS-4044



Model: CAS-2313
Description: Wall Mount for Indoor Domes
Works with: FCS-3053/FCS-3063/
FCS-3064/FCS-3094



Model: CAS-2314
Description: Wall Mount for Outdoor Domes
Works with: FCS-3055/FCS-3082/
FCS-3083



Model: CAS-2316
Description: Wall mount for mini dome mini fisheye
Works with: FCS-3065/FCS-3072/
FCS-3092/FCS-3093



Model: CAS-2504
Description: Pole Mount
Works with: FCS-5054/FCS-5055/
FCS-5065



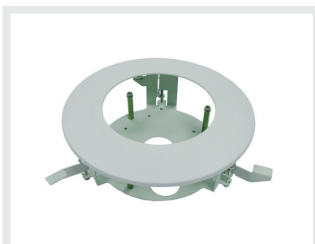
Model: CAS-3000
Description: Outdoor Housing
Works with: FCS-3081



Model: CAS-3001
Description: Flush Mount Kit
Works with: FCS-3055/FCS-3064/
FCS-3082/FCS-3083



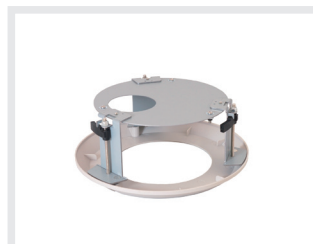
Model: CAS-3002
Description: Flush Mount Kit
Works with: FCS-3053/FCS-3063



Model: CAS-3003
Description: Flush Mount Kit
Works with: FCS-3094



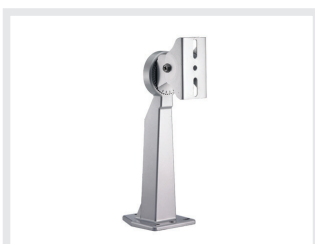
Model: CAS-3004
Description: Flush Mount Kit
Works with: FCS-4043/FCS-4044



Model: CAS-3100
Description: T-Bar Ceiling Mount
Works with: FCS-3081



Model: CAS-3101
Description: Interior Corner Mount
Works with: FCS-3081



Model: CAS-3103
Description: Wall Mount Bracket
Works with: FCS-5053/FCS-5056/
FCS-5057/FCS-5063/FCS-5064



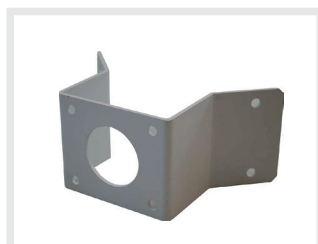
Model: CAS-3104
Description: Bracket for Indoor Box Cameras
Works with: FCS-1152



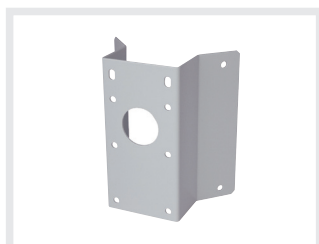
Model: CAS-3105
Description: Bracket for Zoom Box Cameras
Works with: FCS-1150/FCS-1160



Model: CAS-3201
Description: Mini Pendant
Works with: FCS-3081



Model: CAS-3221
Description: Corner Plate Mini
Works with: FCS-3081



Model: CAS-3222
Description: Corner Plate Mount
Works with: FCS-4041



Model: CAS-3223
Description: Corner Thin Box Mount
Works with: FCS-4041



Model: CAS-3241 / CAS-3242
Description: Straight Tube (25cm/50cm)
Works with: FCS-3081/FCS-4041



Model: CAS-3261
Description: Pole Thin Direct Mount
Works with: FCS-3081/FCS-4041



Model: CAS-3263
Description: Pole Thin Box Mount
Works with: FCS-4041



Model: CAS-3281
Description: Wall Box Mount
Works with: FCS-4041



Model: CAS-3291
Description: Outdoor Power Box (110-115V AC)
Works with: FCS-4041



Model: CAS-3292
Description: Outdoor Power Box (220-230V AC)
Works with: FCS-4041



Model: CAS-4001
Description: Pole Mount Kit for Outdoor Camera Enclosure
Works with: BOH-1400/BOH-1401/BOH-1410/BOH-1411



Model: CAS-4200
Description: USB Joystick for P/T/Z Network Camera
Works with: FCS-4041



Model: CAS-3030
Description: IR Illuminator (30m, 80° view angle, IP66 Housing)



Model: CAS-3300
Description: Ceiling Bracket
Works with: FCS-5055/FCS-5065



Model: CAS-4312
Description: Wall Mount Bracket, Cable Management
Works with: FCS-4042

Powerful Surveillance Management Software

LevelOne has developed intelligent and advanced surveillance management software that complements our digital IP Surveillance Cameras. The high-end freeware offers advanced features such as Missing Object and Foreign Object, whereby the camera can detect if something is missing from a regular image and sound an alarm, or if something is added to a viewing area that should not be there such as a bag, box car or person. The freeware version can be upgraded to support 100 channels for a small subscription fee.

The Central Management Software (CMS) included in LevelOne's freeware bundle allows users to link and manage a network of NVRs. By purchasing additional CMS licences and connecting multiple NVRs, users can scale a network up to any size required.

Other capabilities include H.264 compression to reduce the storage bandwidth of megapixel cameras, Pan/Tilt/Zoom functions and 2-Layer E-Map to identify the location of all cameras in the network, whereby an E-Map will pop-up on the host computer with the exact location of a security breach. LevelOne's security solutions can also be monitored remotely via iOS and Android apps.

LevelOne's TV Wall Management System enables robust viewing of multiple cameras from the central management point, displaying multiple views from different sources on the one easy interface. Rather than relying on an operator increasing resolution or switching between screens to effectively monitor multiple cameras, TV Wall Management System allows greater control and operational efficiency through a single pane-of-glass.

Advantages of LevelOne OneSecure Video Management Software

- Free bundle 64 Channels. License fee is required to unlock additional channel - Maximum up to 100 Channels total.
- Recording up to 100 Channels
- Live view local up to 100 Channels, remote up to 100 Channels
- Synchronized playback local up to 100 Channels
- Export video with RAW and AVI formats
- Event trigger, response and notification
- Mobile Client, Web Client, Workstation
- Location-based management with eMap
- Smart search function
- Non-Level1 camera supported via licensed Camera Device Pack - license fee is required

Instant Actions and Notifications

The software has several notification features that enable a surveillance system to monitor and report on certain activities. Actions and notifications include Pop-up window with live video, switch to hotspot window, play beep sound, activate external device through digital output, upload snapshot to FTP server, execute system command to activate other programs, e-mail notification with snapshots, and command a PTZ device to go to a preset point.

Improve Image Quality

The management software includes several important image enhancing features to get better quality when recorded images are played back. The video enhancement tool is crucial for investigating security-related imagery when it comes to face and object recognition.

Quadruple Monitoring Function works with CMS and TV wall

This feature enables the software to display a wide array of cameras. On one screen up to 64 channels can be viewed simultaneously, while the other screen only displays selected cameras, allowing quick or priority monitoring. The other screens can also be used to playback recorded segments while the first screen maintains live viewing capability. TV Wall functionality is available by purchasing LevelOne's TV Wall Management System.



FCS-9364 OneSecure Video Management Software, 64-Channel
FCS-9300 Central Management System
FCS-9310 TV Wall Management System

Multi-Vendor

LevelOne offers paid service for integrating OneSecure software to support non-LevelOne cameras.

*All company names, brand names, trademarks and logos are the property of their respective companies.



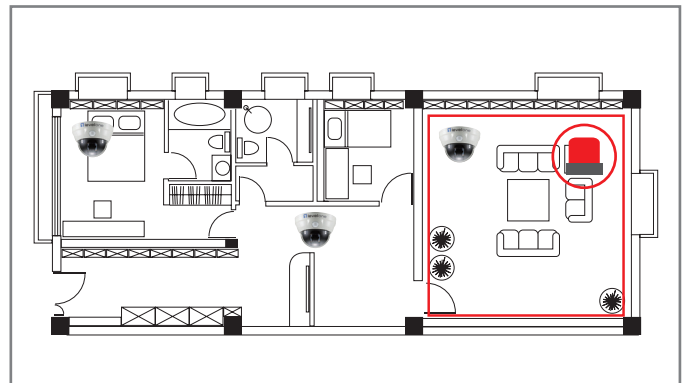
OneSecure

OneSecure is a new, free-launch iOS / Android application that enables users to remotely monitor live video camera through LevelOne OneSecure Surveillance Systems. View of up to 64 cameras through LevelOne OneSecure software over a Wi-Fi/3G or 4G network. NVR (NVR-12xx) can be connected as well.



E-Map

The E-Map gives users an overview of the surveillance system and helps to locate each camera. If an incident occurs, such as an intruder alert, the related camera will be highlighted and users can switch to this camera immediately.



OneSecure Video Management Software

OneSecure Video Management Software

The LevelOne OneSecure software series has been developed by LevelOne to provide more advanced features for digital surveillance systems. The OneSecure solution provides full camera control and support for all LevelOne cameras as well as devices from other manufacturers.

General		OneSecure	
Full Name	OneSecure Video Management Software		
Maximum Number of Clients	1 local, 5 remote (concurrent)		
Maximum Number of Cameras	100		
Free License	64 channels		
Compression	H.264, MPEG-4, MJPEG		
Live View			
Display Layout Mode	Local display: 1, 4, 5, 6, 8, 9, 10, 12, 16 Remote client display: 1, 4, 5, 6, 8, 9, 10, 12, 16, 18, 24, 25, 35, 36, 48, 49, 64		
View Manager	An interface to define display layouts and the pre-set cameras within layout in the public or private view		
View Patrol	Automatic switch between different views or devices		
View Panel	Contains the list of pre-defined views for quick launch		
Device Panel	Drag and drop video source from device panel into display layout; display camera status		
Digital Zoom	Zoom in/out digitally by mouse scroll wheel or by zoom control buttons		
Manual Recording / Snapshot	Instant recording upon mouse click / Instant snapshot upon mouse click or hot key		
Event Panel	Display event status upon alarm or upon connection loss or recovery between server and client or when the allocated disk space is full		
Two-way Audio	Audio sound from and to all the audio supported devices; audio broadcast to multiple devices at the same time		
Dual Stream Management	Live view of stream 1 or stream 2 of dual stream devices		
Instant Playback	Instant playback in live view window		
e-Map			
Layout	Area maps with camera icons, small live view windows; hyperlinked		
Setup	e-Map image upload; camera positioning; vision angle and pointed direction of camera; view positioning; source positioning		
PTZ Mode	Mouse PTZ mode to control e-Map video streams		
PTZ			
Control	Pan, tilt and zoom controls; speed control; both buttons and overlay controls		
Preset Points and Tours	Create preset points; create auto tours between preset points		
Number of Preset Points	32		
Joystick	USB based joystick supported		
Support Protocol	Auto-detect camera's PTZ protocol. Available protocols: Pelco-P, Pelco-D, Dynacolor, Visca		
Recording			
Scheduled Recording	Record video with user defined schedule		
Event Recording	Record video when the alarm event is triggered, including the pre-event buffered video clip		
Speed Up	Different recording frame rate settings for non-event and triggered event		
Manual Recording	Instant recording upon mouse click		
Pre-Event Recording	User-defined time period to record before event occurs. The maximum buffer is 5 seconds		
Post-Event Recording	User-defined time period to record after event occurs. The maximum buffer is 300 seconds		
Dual Stream Management	Recording of stream 1 or stream 2 of dual stream devices		
Search & Playback			
Recording Search	Search video recordings by time, event, channel and listed as clickable thumbnails for full-size view and snapshot download		
Playback Control	Continuous forward and backward playback with speeds 1x/2x/4x/8x or frame-by-frame; pause; stop		
Synchronized Playback	100 channels		
Manual Snapshot	Instant snapshot from playback upon mouse click		
Digital Zoom	Zoom in/out digitally by PiP (Picture-in-Picture)		
Video Export	Export video clips in AVI or RAW format; text overlay supported		
Event Management			
Event Trigger	Video motion detection; Passive IR sensor; External device through digital input; Video loss and recovery; Network loss and recovery; Server loss and recovery; Disk full; Disk not found		
Event Response	Record video; Pop-up window with live video; Switch to hotspot window; Play beep sound; Activate external device through digital output; Upload snapshot to FTP server; Execute system command to activate other programs; E-mail notification with snapshots; Command a PTZ device to go to a preset point		
Manual Event	Manually activate external devices through digital output via live view monitor		
Event Handling	Define the schedule of event manager		
System			
Permission Control	Unlimited number of users, Active Directory, Customizable permissions for user groups		
Language	Multi-language support		
Language Import/Export	Possibility to import or export language packs for convenient local language management		
Customizable User Interface	Define the layout of user interface for live view and playback		
Quick Setup	Configure basic settings of NVR		
Remote Access			
PC Client Program	User interface program (Workstation) with live view, PTZ, playback, e-Map, event management, setup		
PC Web Browser	Microsoft Internet Explorer with live view, PTZ, playback, e-Map, event management, setup		
Mobile Client Program	Mobile device application (Active Mobile Client) supports live view, PTZ control, event or time based search and playback Supported devices: iPhone, iPad, iTouch and Android device		
Display Mode	Live Layout	Minimum	Recommended
Server PC with Local Client	1-16 17-100	Intel Core 2 Quad 2.4 GHz, 4GB RAM Intel i5 2.4 GHz, 4GB RAM	Intel i5 2.4 GHz, 4GB RAM Intel i7-920 2.67 GHz, 4GB RAM
Server PC without Local Client	0	Intel Core 2 Quad 2.4 GHz, 4GB RAM	Intel i5 2.4 GHz, 4GB RAM
Remote Client PC	1-16 17-64	Intel Core 2 Quad 2.4 GHz, 4GB RAM Intel i5 2.4 GHz, 4GB RAM	Intel i5 2.4 GHz, 4GB RAM Intel i7-920 2.67 GHz, 4GB RAM
PC Operating System	Windows 7, Windows 8, Windows Server 2012		
PC Web Browser	Internet Explorer 8, Internet Explorer 9, Internet Explorer 10		
Integration			
Unified Solution	Fully compatible with LevelOne cameras, encoders and CMS 2.0		
ISV CMS Integration	Software Development Kit (SDK) available		

* These specifications are based on following camera settings: Single stream mode: 1280x1024, 3Mbps, 18fps, MPEG-4
Dual stream mode:

Stream 1 : 1280x1024, 3Mbps, 18fps, H.264

Stream 2 : 640x480, High Quality, 18fps, MJPEG

For more details about system requirements, please refer to Project Planner on <http://global.level1.com/>

Network Video Recorders






Simple set up and a reliable, cost-effective surveillance system

The LevelOne Network Video Recorder (NVR) series is compatible with LevelOne network cameras, and offers a complete recording solution. It enables live view recording and playback for up to 16 IP network cameras via the local area network or over the Internet simultaneously. No specific software is required, just plug the NVR into your LAN connected device (switch or router) and with a few clicks it will search and configure each connected Network Camera instantly. It allows users to easily build an advanced surveillance network.

Network Video Recorder (NVR)

Network Video Recorder (NVR)

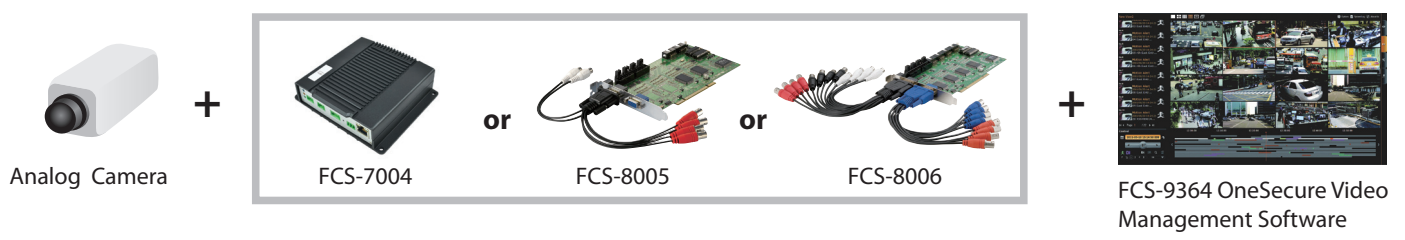
The Network Video Recorder (4/9/16-Channel) is designed to suit your needs. It enables HDMI local display and recording up to 10MP resolution. NVR includes free bundled software –no additional licensing.

Model	NVR-1204	NVR-1209	NVR-1216
Product Image			
Name	Network Video Recorder, 4-Channel	Network Video Recorder, 9-Channel	Network Video Recorder, 16-Channel
Product Type	Standalone NVR	Standalone NVR	Standalone NVR
Maximum Number of Cameras	4	9	16
Maximum Number of Clients	1 local, 2 remote	1 local, 2 remote	1 local, 2 remote
Free License	4	9	16
Video Resolution	Up to 4-Megapixel (Local display), Up to 10-Megapixel (Remote display)	Up to 4-Megapixel (Local display), Up to 10-Megapixel (Remote display)	Up to 4-Megapixel (Local display), Up to 10-Megapixel (Remote display)
Compression	H.264	H.264	H.264
Multi-Streaming	Dual streams	Dual streams	Dual streams
Network Connector	RJ-45	RJ-45	RJ-45
Scheduled Recording	V	V	V
Event Recording	V	V	V
Manual Recording	V	V	V
Speed Up	V	V	V
Recording Throughput	16 Mbps	36 Mbps	48 Mbps
HDD Interface	Maximum 2 SATA disks; Options to have empty bays or one 1TB storage disk included	Maximum 2 SATA disks; Options to have empty bays or one 1TB storage disk included	Maximum 2 SATA disks; Options to have empty bays or one 2TB storage disk included
Display Layout Mode	Local: 1, 2, 4 Remote: 1, 2, 4	Local: 1, 2, 4, 9, 1+5, 1+7, 2+4 Remote: 1, 2, 4, 9, 1+5, 1+7, 2+4	Local: 1, 2, 4, 9, 12, 16, 1+5, 1+7, 1+12, 2+4, 2+8 Remote: 1, 2, 4, 9, 12, 16, 1+5, 1+7, 1+12, 2+4, 2+8
Digital Zoom	V	V	V
Event Status	Display event status upon alarm or upon connection loss or recovery between server and client	Display event status upon alarm or upon connection loss or recovery between server and client	Display event status upon alarm or upon connection loss or recovery between server and client
Instant Playback	Instant Playback in live view window (Remote client)	Instant Playback in live view window (Remote client)	Instant Playback in live view window (Remote client)
PTZ Control	V	V	V
Playback Control	Continuous forward and backward playback with speeds 0.5x/1x/2x/4x/8x/16x/32x; pause; stop	Continuous forward and backward playback with speeds 0.5x/1x/2x/4x/8x/16x/32x; pause; stop	Continuous forward and backward playback with speeds 0.5x/1x/2x/4x/8x/16x/32x; pause; stop
Synchronized Playback	4 channels	9 channels	16 channels
Local Access	HDMI monitor, USB keyboard & mouse	HDMI monitor, USB keyboard & mouse	HDMI monitor, USB keyboard & mouse
Remote Access	Web Client (IE), Mobile Client (iOS & Android)	Web Client (IE), Mobile Client (iOS & Android)	Web Client (IE), Mobile Client (iOS & Android)
Event Trigger	Video motion detection; External device through digital input; Network loss and recovery	Video motion detection; External device through digital input; Network loss and recovery	Video motion detection; External device through digital input; Network loss and recovery
Event Response	Record video; Beep; Digital output; E-mail with snapshots; Event logging; Go to PTZ preset point	Record video; Beep; Digital output; E-mail with snapshots; Event logging; Go to PTZ preset point	Record video; Beep; Digital output; E-mail with snapshots; Event logging; Go to PTZ preset point
Permission Control	Unlimited number of users, Customizable permissions for user groups	Unlimited number of users, Customizable permissions for user groups	Unlimited number of users, Customizable permissions for user groups
Video Export	USB	USB	USB
Server Operating System	Embedded Linux	Embedded Linux	Embedded Linux
Client PC Operating System	Windows 8, Windows 7	Windows 8, Windows 7	Windows 8, Windows 7
PC Web Browser	IE 9, IE 10, IE 11	IE 9, IE 10, IE 11	IE 9, IE 10, IE 11
ONVIF Compliant	-	-	-
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)
Approvals	CE, FCC	CE, FCC	CE, FCC



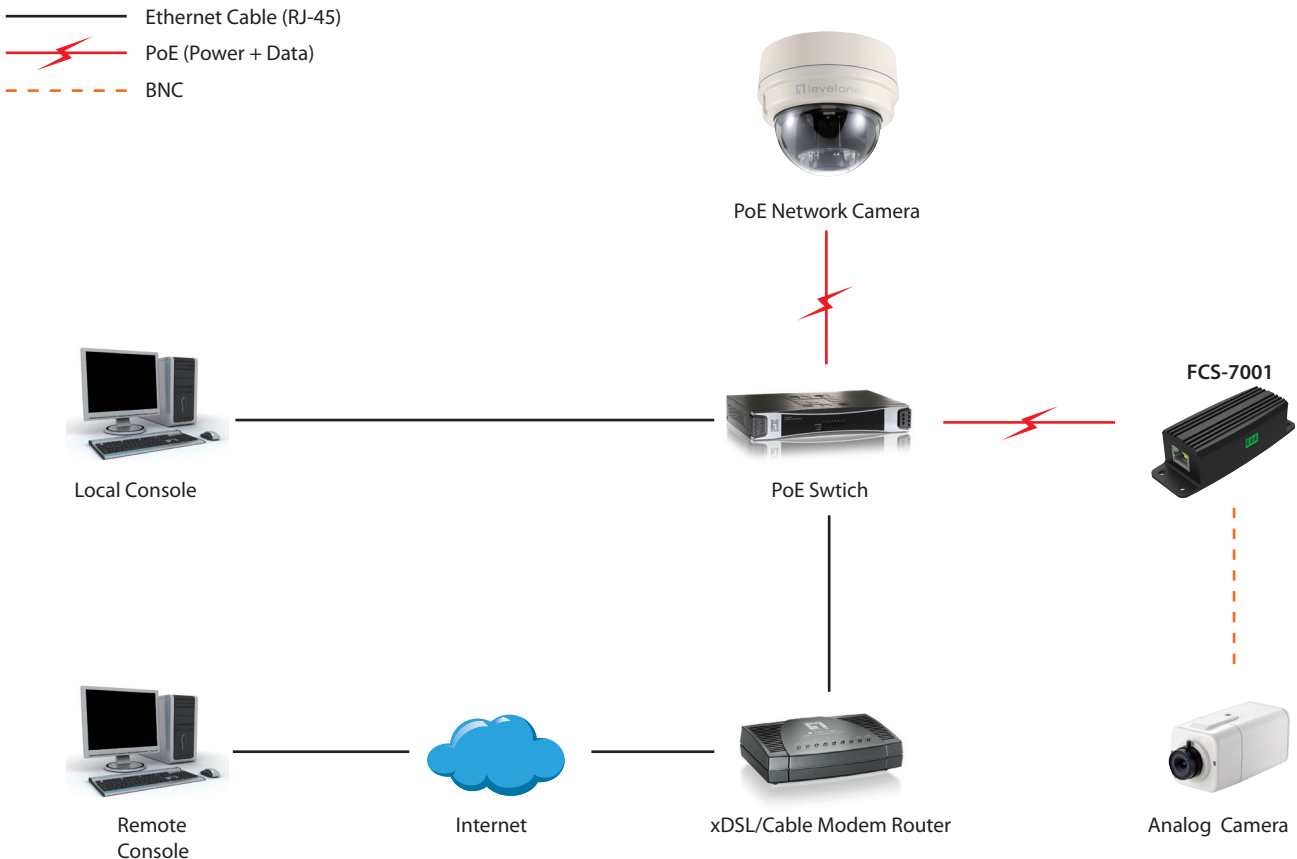
Integrating Analog Cameras into IP Security Surveillance Networks

As more and more security networks are making the move from analog to digital, there are many people that are stuck in the middle. What do you do if you just purchased a CCTV system, yet you want the flexibility and functionality of digital surveillance? LevelOne's Video Server and Capture Cards are the answer. By integrating your existing CCTV cameras into a feature-rich digital network, you can hold onto the previous investment while taking advantage of new technology.



Hybrid Interoperable

LevelOne provides surveillance products that enable already-installed analog surveillance products to be integrated into a digital IP-based surveillance system.



Related Products



- FCS-7001/FCS-7004**
Video Encoder, 1/4-Channel, PoE 802.3af
- 1 channel up to 30fps in D1 resolution (FCS-7001)
 - 4 channels up to 30fps in D1 resolution per channel – total 120fps (FCS-7004)
 - Real time H.264 High profile, MJPEG compression
 - Dual Stream simultaneously
 - Powered by DC12; 802.3af
 - 2 Way Audio (Line in, Line out)
 - DI/DO X4(FCS-7004)



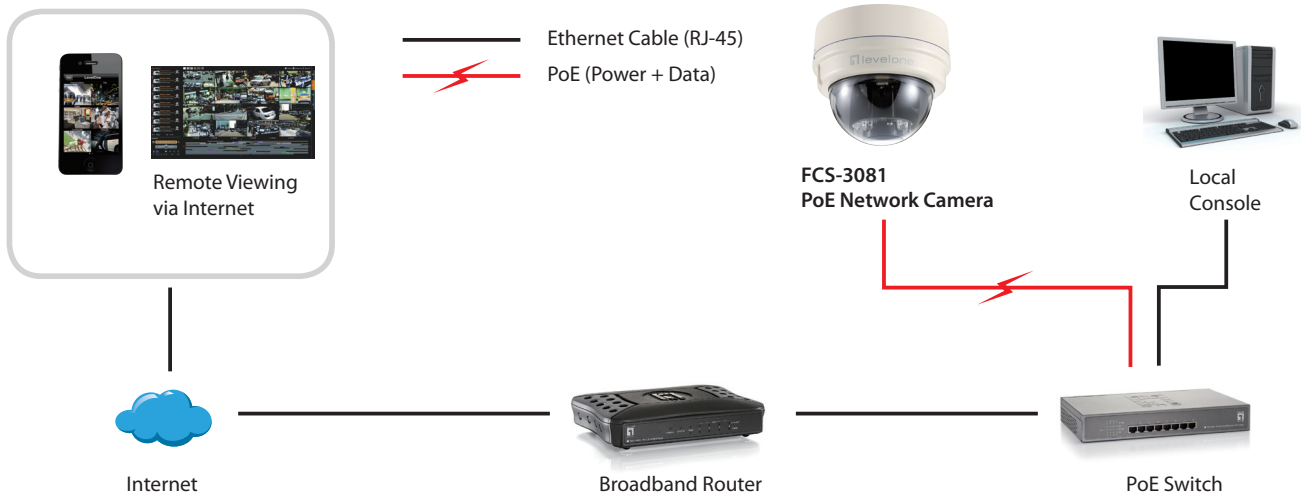
- FCS-8005**
4-CH Analog Camera Capture Card
- Supports the monitoring of 4 analog cameras
 - Advanced motion detection and alarm functions
 - View up to 120 frames per second
 - Superior video resolution up to 704 x 480 (NTSC)/704x576 (PAL)
 - 2 ports audio inputs
 - MPEG-4 compression mode
 - Supports Windows XP/Server 2003/Vista/7



- FCS-8006**
16-CH Analog Camera Capture Card
- Supports the monitoring of 16 analog cameras
 - Advanced motion detection and alarm functions
 - View up to 120 (NTSC)/100 (PAL) frames per second
 - Superior video resolution up to 704 x 480 (NTSC)/704x576 (PAL)
 - 4 ports audio inputs
 - MPEG-4 compression mode
 - Supports Windows XP/Server 2003/Vista/7

Installation over PoE Network by PoE Switch

For a powerless environment, LevelOne recommends the deployment of a Cat.5 (or above) Ethernet LAN by using our PoE switches. The switches provide PoE ports that can connect directly to our PoE-enabled network cameras over a 100m distance. This is an excellent solution to deploy together with power redundancy to ensure constant power supply in case of failure.



PoE switch with IEEE 802.3af compliant

Model	FSW-0503	IFE-0500	IFE-0501	IFE-0502	GEP-0520
PoE Port	4 x 10/100Mbps	4 x 10/100Mbps	4 x 10/100Mbps	4 x 10/100Mbps	4 x 10/100/1000Mbps
PoE Total Budget	61.6W	57W	57W	57W	61.6W

High Power PoE Switch

Model	FSW-1671	Model	FSW-0513
PoE Port	8 x 10/100Mbps	PoE Port	4 x 10/100Mbps
PoE Total Budget	123.2W	PoE Total Budget	120W

PoE switch with IEEE 802.3af/at compliant

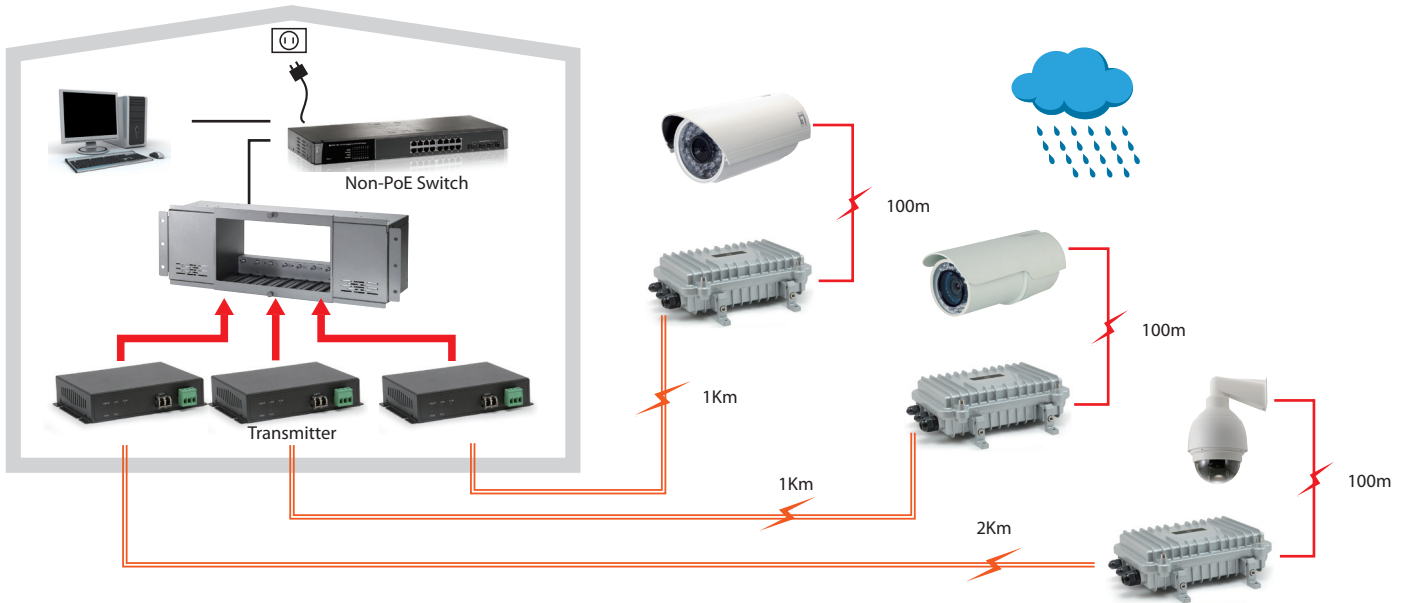
Model	GEP-0521	FEP-0811	FEP-0812	GEP-0820	GEP-0821/0822	GEP-0950
PoE Port	4 x 10/100/1000Mbps	8 x 10/100Mbps	4 x 10/100Mbps	8 x 10/100/1000Mbps	8x 10/100/1000Mbps	8 x 10/100/1000Mbps
PoE Total Budget	120W	123.2W	61.3W	61.6W	123.2W/250W	130W

Model	FEP-1611/1612	GEP-1621/1622	GEP-2671/2672	FGP-2410/2412	GEP-2450	GEP-5070
PoE Port	16 x 10/100Mbps	16 x 10/100/1000Mbps	24 x 10/100/1000Mbps	24 x 10/100Mbps	24 x 10/100/1000Mbps	48 x 10/100/1000Mbps
PoE Total Budget	240W / 480W	240W/480W	185W/370W	240W/486.4W	184.8W	375W





Installation


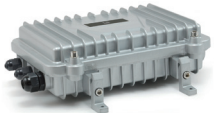
PoE Extender over Hybrid Fiber

Using hybrid fiber and copper cable, the LevelOne PFE range can deliver integrated power and data over a distance of 6,800 ft (2km) to a receiver which provides high-power PoE output for IP surveillance applications. A tough outdoor range (PFE-1011/1014) provides the same performance within a durable IP66-rated waterproof housing for harsh environmental conditions and temperature range of -40°C to 60°C.



PoE Extender over Hybrid Fiber

Model	PFE-1001T	PFE-1101T	PFE-1001R	PFE-1004R
				
Type	Transmitter	Transmitter	Receiver	Receiver
PoE Standard	-	-	Proprietary	Proprietary
Power Output	65W (110-240V AC)	120W (110-240V AC)	-	-
Data Output	1 x 100Mbps LC, 2KM	1 x 100Mbps LC, 2KM	1 x 100Mbps LC, 2KM	1 x 100Mbps LC, 2KM
PoE Output	-	-	1 x 10/100Mbps	4 x 10/100Mbps
PoE Power Budget	-	-	20W~60W for 450M~2KM	20W~60W for 450M~2KM
IP-Rating	-	-	-	-

Model	PFE-1011R	PFE-1014R
		
Type	Outdoor Receiver	Outdoor Receiver
PoE Standard	Proprietary	Proprietary
Power Output	-	-
Data Output	1 x 100Mbps LC, 2KM	1 x 100Mbps LC, 2KM
PoE Output	1 x 10/100Mbps	4 x 10/100Mbps
PoE Power Budget	20W~60W for 450M~2KM	20W~60W for 450M~2KM
IP-Rating	IP66	IP66



Hybrid Cable

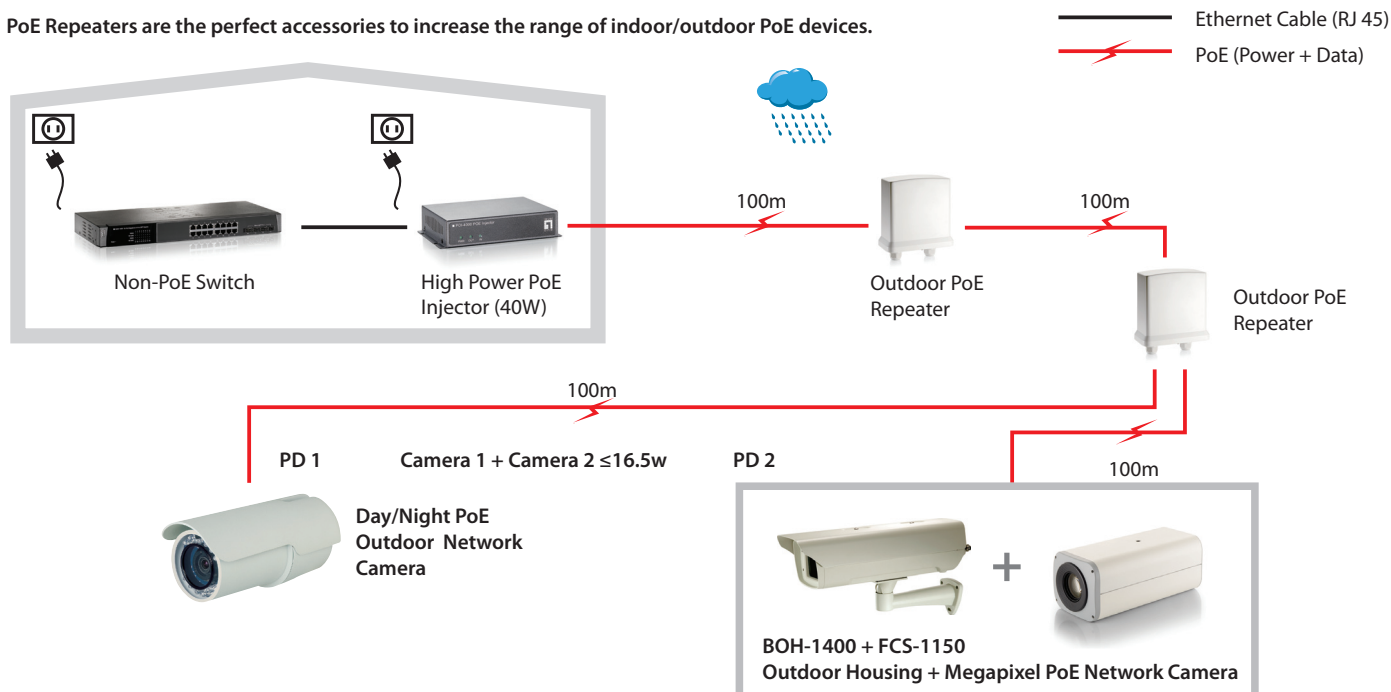
Fiber / Power Distance / PoE Output Table

Mdoel No	Hybrid Cable	Conductor Gauge	450M	700M	1KM	2KM
PFE-1001T	PFC-0112	12 AWG			40W	20W
PFE-1001T	PFC-0118	18 AWG	40W	20W		
PFE-1101T	PFC-0112	12 AWG	60W	55W	50W	28W
PFE-1101T	PFC-0118	18 AWG	50W	28W		

Installation over PoE Network by PoE Repeater

The traditional PoE standard (IEEE 802.3af) supports 15.4W, and normal cable runs only reach 100m, which is fine for regular devices. But what do you do if your network cameras need more power or extend over a greater distance? LevelOne PoE repeaters allow a PoE device to be attached to your network over a distance of up to 800m. The "IN" port accepts the power and data for the first 100m, and the "OUT" port boosts and extends the power and data an additional 100m.

PoE Repeaters are the perfect accessories to increase the range of indoor/outdoor PoE devices.



Power over Ethernet (PoE) Repeaters

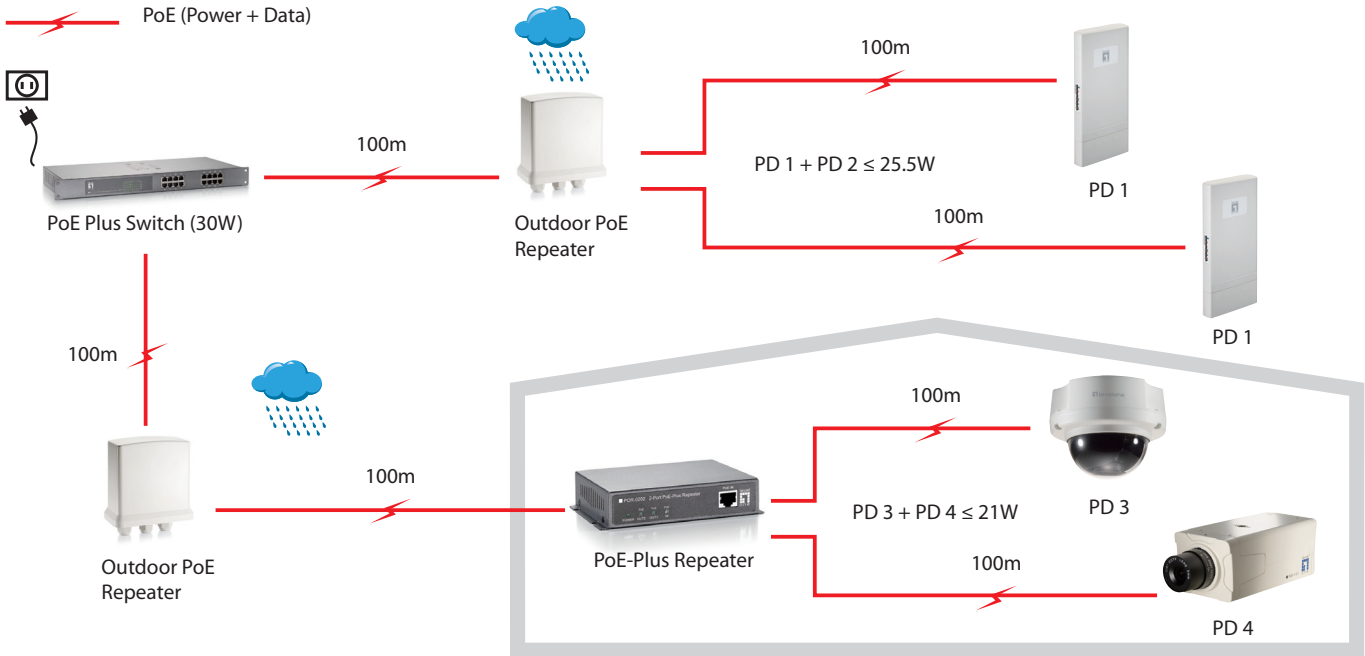
Model	POR-0100	POR-0102	POR-1100	POR-1102
RJ-45 Output Port	1 x 10/100Mbps	2 x 10/100Mbps	1 x 10/100Mbps	2 x 10/100Mbps
RJ-45 Input Port	1 x 10/100Mbps	1 x 10/100Mbps	1 x 10/100Mbps	1 x 10/100Mbps
RJ-11 Input Port	-	-	-	-
RJ-11 Output Port	-	-	-	-
IP-Rating	-	-	IP65	IP65

Model	POR-0120	POR-0122
RJ-45 Output Port	1 x 10/100/1000Mbps	2 x 10/100/1000Mbps
RJ-45 Input Port	1 x 10/100/1000Mbps	1 x 10/100/1000Mbps
RJ-11 Input Port	-	-
RJ-11 Output Port	-	-
IP-Rating	-	-





Installation





Simple yet durable, no software required

As a PoE-PLUS Repeater, POR-02xx , POR-12xx series receives all power from the Power Sending Equipment (PSE), for example, a PoE-PLUS switch. This means that POR-0200 uses no external power supply, making it the most flexible option for system integrators looking for an easy, affordable solution to increase the distance to the attached devices.



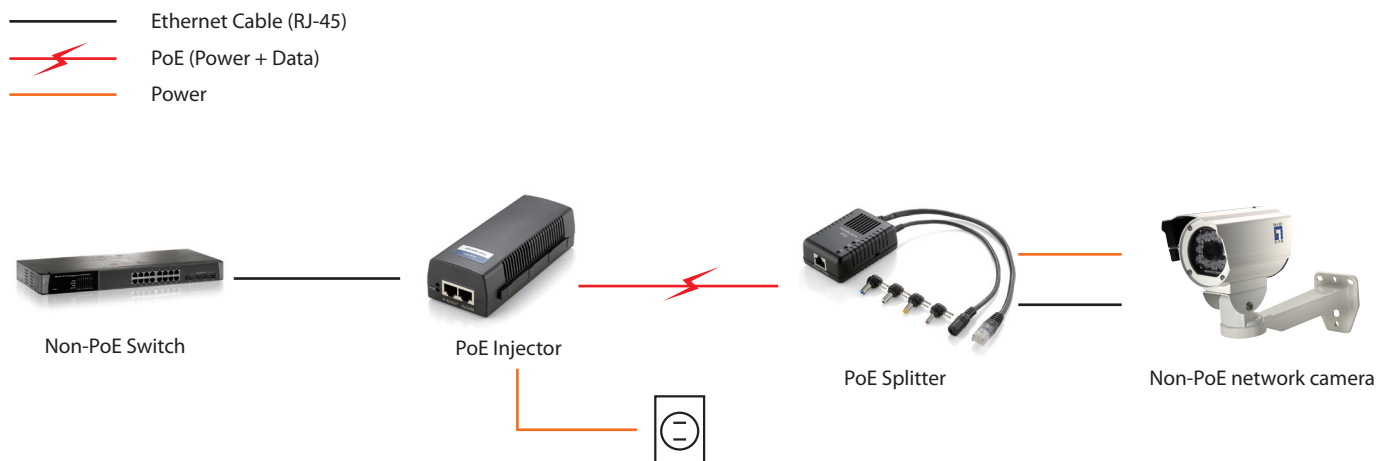
PoE Repeater with IEEE 802.3af/at compliant

Model	POR-0200	POR-0202	POR-1200	POR-
1202				
RJ-45 Output Port	1 x 10/100Mbps 1 x 10/100Mbps (LAN)	2 x 10/100Mbps	1 x 10/100Mbps 1 x 10/100Mbps (LAN)	2 x 10/100Mbps
RJ-45 Input Port	1 x 10/100Mbps	1 x 10/100Mbps	1 x 10/100Mbps	1 x 10/100Mbps
RJ-11 Input Port	-	-	-	-
RJ-11 Output Port	-	-	-	-
IP-Rating	-	-	IP65	IP65

Model	POR-0220	POR-0222	POR-1220	POR-1222
				
RJ-45 Output Port	1 x 10/100/1000Mbps 1 x 10/100/1000Mbps (LAN)	2 x 10/100/1000Mbps	1 x 10/100/1000Mbps 1 x 10/100/1000Mbps (LAN)	2 x 10/100/1000Mbps
RJ-45 Input Port	1 x 10/100/1000Mbps	1 x 10/100/1000Mbps	1 x 10/100/1000Mbps	1 x 10/100/1000Mbps
RJ-11 Input Port	-	-	1 x 10/100Mbps	-
RJ-11 Output Port	-	-	-	-
IP-Rating	-	-	IP65	IP65

Installation over PoE Network by PoE Injector and PoE Splitter

Not all IP devices are equipped with PoE function, however you can still use a single Cat.5 cable to deliver power and data to the IP device, as LevelOne's PoE injectors provide power over a single Ethernet cable. Each output port of the PoE injector combines both data and power through a single Cat.5 cable to the PoE PD (Power Device), and with a PoE Splitter it separates the data and power from a networked PoE signal so it can be used for non-PoE devices installed in places where power is difficult to obtain.



PoE Injector

Model	POI-4000	POI-2002	POI-3002	POI-2001	POI-3000
PoE	V	802.3af	802.3af/at	802.3af	802.3af/at
PoE Output	1 x 10/100Mbps	1 x 10/100Mbps	1 x 10/100Mbps	1 x 10/100/1000Mbps	1 x 10/100/1000Mbps
RJ-45 Input	1 x 10/100Mbps	1 x 10/100Mbps	1 x 10/100Mbps	1 x 10/100/1000Mbps	1 x 10/100/1000Mbps
PoE Power Budget	56W	15.4W	30W	15.4W	30W



PoE Splitter

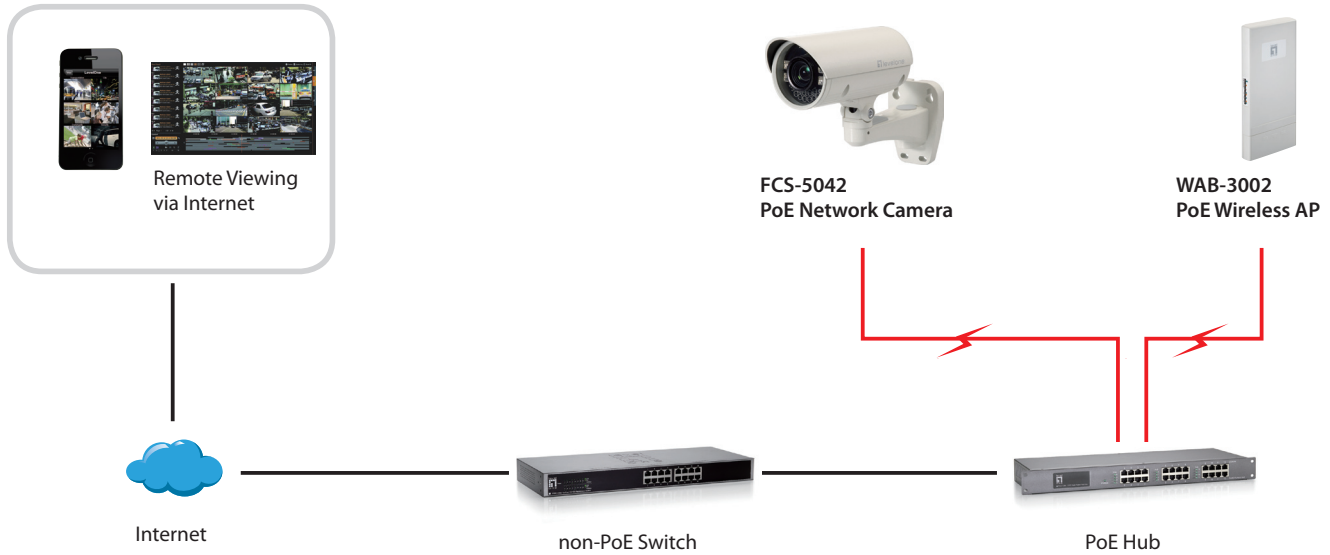
Model	POS-4000	POS-4002	POS-1002	POS-3000	POS-4001
PoE	V	V	802.3af	802.3af/at	V
Power Output	3-12V DC	24AC	5-12V DC	5-12V DC	3-12V DC
RJ-45 Input	1 x 10/100Mbps	1 x 10/100Mbps	1 x 10/100Mbps	1 x 10/100/1000Mbps	1 x 10/100Mbps
RJ-45 Output	1 x 10/100Mbps	1 x 10/100Mbps	1 x 10/100Mbps	1 x 10/100/1000Mbps	1 x 10/100Mbps
IP Rating	-	-	-	-	IP65

Installation




Installation over PoE Network by PoE Injector Hubs

Fully compliant with the IEEE 802.3af standard and acts as a patch panel between a legacy switch and other network devices to provide power and data, including PoE power of up to 30W per port over existing Cat.5 Ethernet cable.

-  Ethernet Cable (RJ-45)
-  PoE (Power + Data)

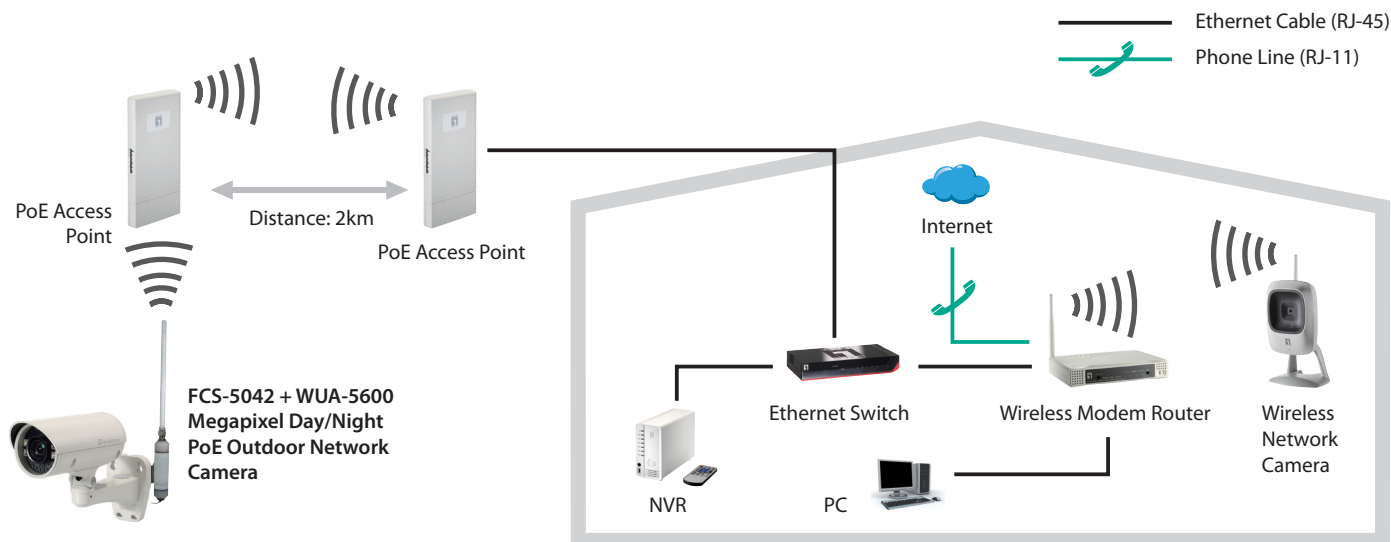


Injector Hubs

Model	POH-1250	POH-1260
		
PoE	802.3af	802.3af
PoE Port	12 x 10/100Mbps	12 x 10/100Mbps
Ethernet Port	12 x 10/100Mbps	12 x 10/100Mbps
PoE Power Budget	200W	375W

Installation over Wireless Network

LevelOne offers a wide range of wireless network devices to fulfil different surveillance scenarios. For example, monitoring a large area would cost a lot for installation of electrical wiring, but by using LevelOne FCS-5041 + WUA-5600 (High power outdoor USB adapter with 7dBi antenna), this can now be monitored from a central control room or via remote control access over a wireless internet without any electrical wiring fees. In addition, home or small office users can set up a complete surveillance network using a simple network of switches, a wireless Modem Router and Network Video Recorder (NVR).



Wireless Access Points

Model	WAB-5120	WAB-6120	WAP-6101	WAP-6103
Wireless Standard	300Mbps (11a/n)	150Mbps (11b/g/n)	300Mbps (11b/g/n)	300Mbps
Antenna/Connector	2 x 16dBi /RP-SMA	1 x 8dBi (Internal) / N-type	2 x 5dBi (Internal) / -	2x 3dBi (internal) / -
PoE	V	V	V	V
Frequency Range	5GHz	2.4GHz	2.4GHz	2.4GHz
Multiple-SSID	16	16	4	8
AP/ AP Client/WDS Mode	V	V	V	V
IP Rating	IP55	IP55	-	-

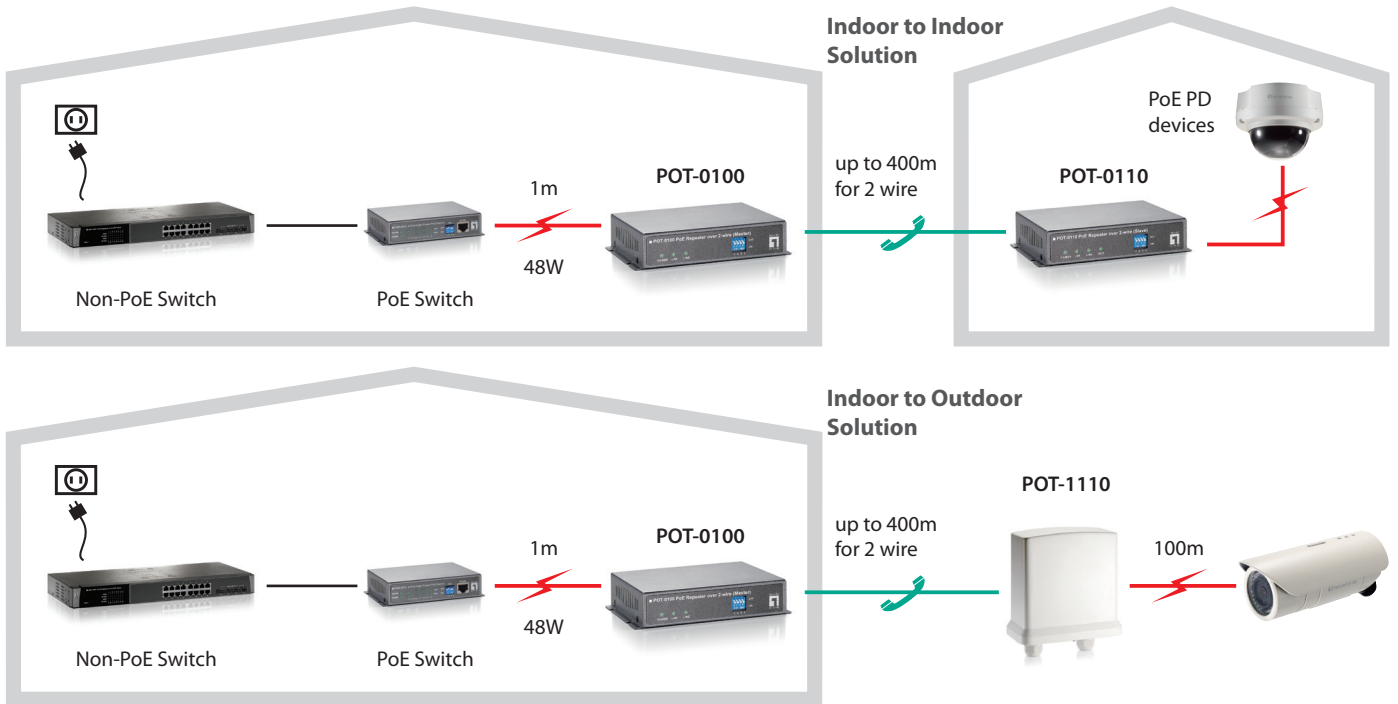
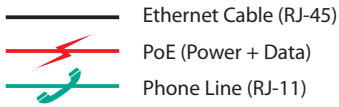
Antennas

Model	OAN-2090	OAN-2151	WAN-2181	WAN-7100
Description	Omni-Directional	Omni-Directional	Directional Panel	Directional Dual-Polarization
Frequency Range	2.4GHz	2.4GHz	2.4GHz	2.4GHz
Indoor/Outdoor	Indoor/Outdoor	Outdoor	Outdoor	Indoor/Outdoor
Gain	9 dBi	15 dBi	18 dBi	10.5 dBi
Range (Estimated)	400~1000m	800~3000m	1500~5000m	200~800m
Extension Cable	-	V	-	V
Connector	N-Jack	N-Jack	N-Jack	SMA-RPSMA

Application Installation

Installation over 2-Wire

The POT system, one master & one slave units, provides a long-reach Ethernet extension with remote Power over Ethernet (PoE) capability over a 2-wire line.



PoE Repeater over 2-wire



POT-0100

PoE Extender, Transmitter, Over 2-wire

- 2-wire cables are used to connect 100Mbps Fast Ethernet PoE devices
- Maximum distance up to 400 meters for 24 AWG cable
- Maximum data rate up to 60 Mbps full duplex
- Remote PoE capability for PD devices of WiFi AP, IP camera, IP telephones



POT-0110

PoE Extender, Receiver, Over 2-wire

- 2-wire cables are used to connect 100Mbps Fast Ethernet PoE devices
- Maximum distance up to 400 meters for 24 AWG cable
- Maximum data rate up to 60 Mbps full duplex
- Remote PoE capability for PD devices of WiFi AP, IP camera, IP telephones



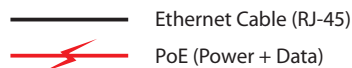
POT-1110

PoE Extender, Receiver, Over 2-wire, Outdoor

- 2-wire cables are used to connect 100Mbps Fast Ethernet PoE devices
- Maximum distance up to 400 meters for 24 AWG cable
- Maximum data rate up to 60 Mbps full duplex
- IP65 Weatherproof

Surveillance Deployment for Transportation

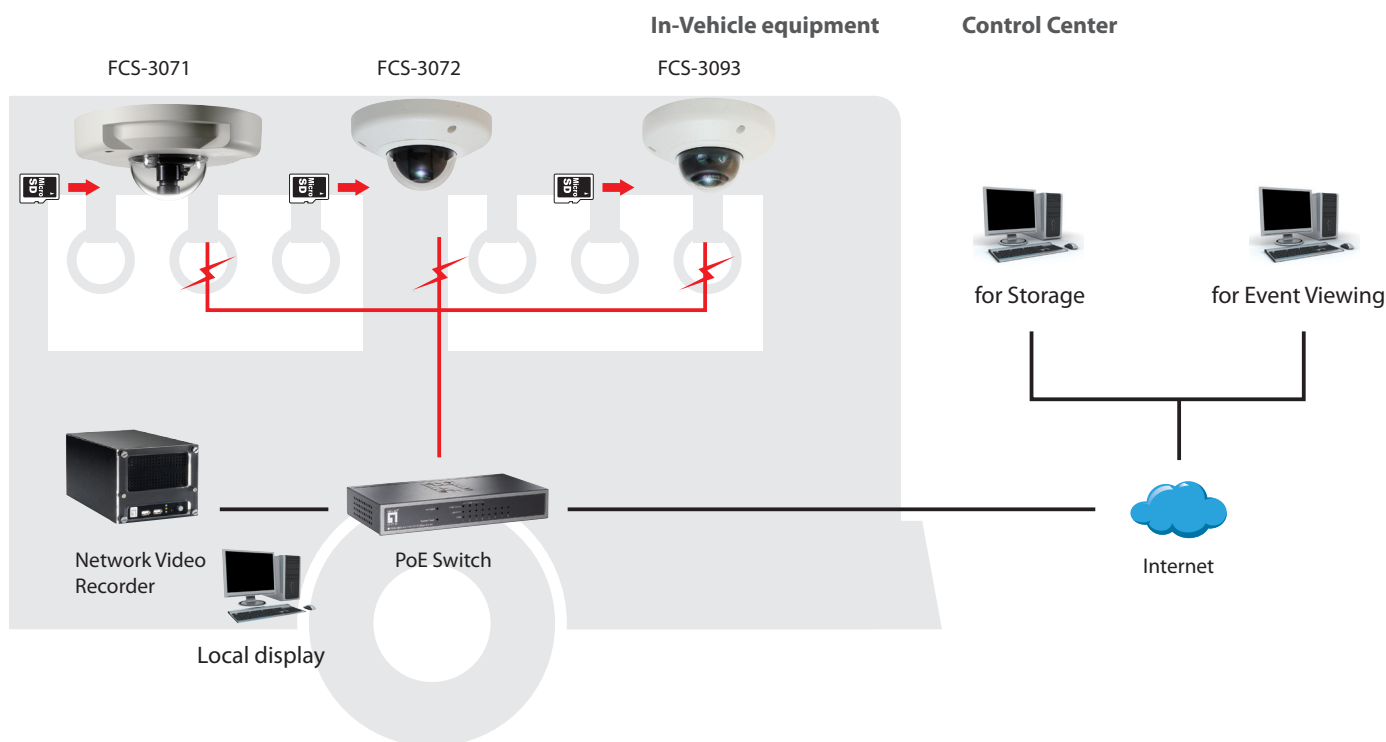
The FCS-3071/FCS-3072/FCS-3093 cameras feature shockproof and weatherproof IP-66/IP-68 housing, specially designed for rolling stock applications such as buses, ambulance services or trains. Combined with a PoE switch, the cameras can be operated and powered from a single Ethernet cable. A Network Video Recorder offers a complete recoding solution which connects directly to a 3G router for real-time monitoring, video recording and playback. The cameras also come complete with a Micro SD/SDHC card slot for local recording.



Free 64-CH Surveillance Management Software



Central Room Monitoring



Related Products



NVR-1204/NVR-1209/NVR-1216 Network Video Recorder, 4/9/16-Channel

- HDMI local display
- Display – Up to 4-Megapixel (local display), Up to 10-Megapixel (remote display)
- Recording throughput – 30 fps per channel – 120fps, 270fps, 480 fps total per model
- Support – scheduled recording, event recording, event speed-up recording
- 2-bay Desktop – 3.5 inch Serial ATA – support up to 8TB total



FEP-0812 4 FE PoE + 4 FE Switch

- Provides 8-Port 10/100Mbps Ethernet Switch with 4 shared PoE ports
- Fully compliant with the IEEE 802.3af PoE standard
- Supports over current and circuit shorting protection
- Total Power Budget: 61.6W

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