

Panasonic

E-Series



HD Weatherproof Dome Network Camera

Panasonic

K-EF134L Series K-EF134L02AE

1.3 Megapixel 720p Weatherproof Dome Camera Equipped with IR LED

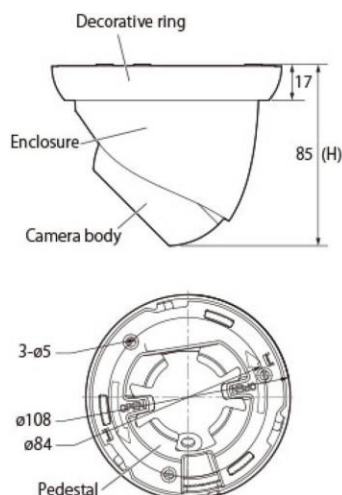
Specifications



Key Features

- High-performance CMOS image sensor.
- Focal length : 2.8 mm
- H.264 & MJPEG dual-stream encoding
- 30fps@1.3 M (1280 × 960) & 30fps@720p (1280 × 720).
- Support ICR for day time and night time operation.
- Max. IR LEDs length 30 m.
- IP66 rated water and dust resistant.
- PoE.

Appearance



Camera	
Image Sensor	Approx. 1/3 type CMOS image sensor
Min Illumination	0.1 lx / F1.2 (color) ^{*1} , 0 lx (IR on)
Gain	Auto/ Manual
Back light compensation	OFF/ BLC/ HLC/ WDR
Shutter speed	Auto/ Manual, 1/3 sec~1/100000 sec
Day / Night	Auto(ICR) / Color/ Black & White
IR LED Light	Irradiation distance: 30 m
White Balance	Auto/ Sunny/ Night/ Outdoor/ Manual
Digital Noise Reduction	3DNR ON/ OFF
Privacy masking	Up to 4 areas
Video Motion Detection	On/ Off
Lens	
Focal Length	2.8 mm
Angular Field of View	H: 89° V: 64°
Network	
Network	10BASE-T/ 100BASE-TX, RJ45 connector
Resolution	1.3 M (1280x960) / 720P (1280x720)/ D1 (704x576/704x480) / CIF (352x288/352x240)
Image compression method	H.264/ H.264H/ H.264B/ MJPEG
Frame Rate	1 to 25/30 fps
Protocol	IPv4/ IPv6, HTTP, HTTPS, SSL, TCP/ IP, UDP, UPnP, ICMP, IGMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, DDNS, FTP, QoS, Bonjour, ONVIF compatible
Maximum concurrent access number	20 users (Number of sessions that can connect to cameras at the same time)
General	
Power source	12 V DC, PoE (IEEE802.3af compliant)
Power Consumption	12 V DC: 320 mA / Approx. 3.8 W PoE 48 V DC: 80 mA / Approx. 3.8 W (Class 0 device)
Ambient Operating Temperature / Humidity	-30 °C to +60 °C {-22 °F to 140 °F} 10 % to 90 % (no condensation)
Water and Dust Resistance	Main body: IP66
Dimensions	Φ108 mm × 85 mm (H) {ø4-1/4 inches × 3-11/32 inches (H)}
Weight (approx.)	Approx. 250 g {0.55 lbs}

*1 [Image Adjust] Shutter: (0-)80 ms, Gain: (0-)50"

Important

- Safety Precaution: Carefully read the operating instruction manual before using this product.
- Panasonic cannot be responsible for the performance of the network and/or other manufacturers' products used on the network.

- All pictures are simulated.
- Weights and dimensions are approximate.
- Specifications are subject to change without notice.

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HD Weatherproof Dome Network Camera

Panasonic

K-EF134L Series K-EF134L03AE

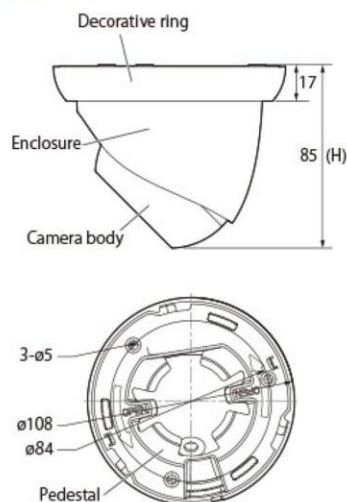
1.3 Megapixel 720p Weatherproof Dome Camera Equipped with IR LED



Key Features

- High-performance CMOS image sensor.
- Focal length : 3.6 mm
- H.264 & MJPEG dual-stream encoding
- 30fps@1.3 M (1280 × 960) & 30fps@720p (1280 × 720).
- Support ICR for day time and night time operation.
- Max. IR LEDs length 30 m.
- IP66 rated water and dust resistant.
- PoE.

Appearance



Specifications

Camera	
Image Sensor	Approx. 1/3 type CMOS image sensor
Min Illumination	0.1 lx / F1.2 (color) ^{*1} , 0 lx (IR on)
Gain	Auto/ Manual
Back light compensation	OFF/ BLC/ HLC/ WDR
Shutter speed	Auto/ Manual, 1/3 sec~1/100000 sec
Day / Night	Auto(ICR) / Color/ Black & White
IR LED Light	Irradiation distance: 30 m
White Balance	Auto/ Sunny/ Night/ Outdoor/ Manual
Digital Noise Reduction	3DNR ON/ OFF
Privacy masking	Up to 4 areas
Video Motion Detection	On/ Off
Lens	
Focal Length	3.6 mm
Angular Field of View	H: 71° V: 55°
Network	
Network	10BASE-T/ 100BASE-TX, RJ45 connector
Resolution	1.3 M (1280x960) / 720P (1280x720)/ D1 (704x576/704x480) / CIF (352x288/352x240)
Image compression method	H.264/ H.264H/ H.264B/ MJPEG
Frame Rate	1 to 25/30 fps
Protocol	IPv4/ IPv6, HTTP, HTTPS, SSL, TCP/ IP, UDP, UPnP, ICMP, IGMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, DDNS, FTP, QoS, Bonjour, ONVIF compatible
Maximum concurrent access number	20 users (Number of sessions that can connect to cameras at the same time)
General	
Power source	12 V DC, PoE (IEEE802.3af compliant)
Power Consumption	12 V DC: 320 mA / Approx. 3.8 W PoE 48 V DC: 80 mA / Approx. 3.8 W (Class 0 device)
Ambient Operating Temperature / Humidity	-30 °C to +60 °C {-22 °F to 140 °F} 10 % to 90 % (no condensation)
Water and Dust Resistance	Main body: IP66
Dimensions	Φ108 mm × 85 mm (H) {ø4-1/4 inches × 3-11/32 inches (H)}
Weight (approx.)	Approx. 250 g {0.55 lbs}

*1 [Image Adjust] Shutter: (0-)80 ms, Gain: (0-)50"

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- Specifications are subject to change without notice.

DISTRIBUTED BY:

Full HD Weatherproof Box type Network Camera

Panasonic

K-EW214L Series K-EW214L01E

2 Megapixel 1080p Weatherproof Box type Camera Equipped with IR LED

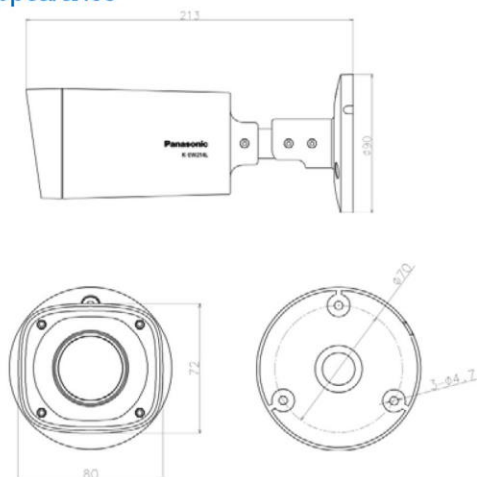
Specifications



Key Features

- High-performance CMOS image sensor.
- Vari Focal : 2.7 mm to 12 mm
- H.264 & MJPEG dual-stream encoding
- 30fps@1080P (1920 × 1080) & 30fps@720p (1280 × 720).
- Support ICR for day time and night time operation.
- Max. IR LEDs length 30 m.
- IP66 rated water and dust resistant.
- PoE.

Appearance



Camera	
Image Sensor	Approx. 1/2.8 type CMOS image sensor
Min Illumination	0.2 lx / F1.4 (color)*, 0 lx F1.4 (IR on)* ¹
Gain	Auto/ Manual
Back light compensation	OFF / BLC/ HLC/ WDR
Shutter speed	Auto/ Manual, 1/3 sec~1/100000 sec
Day / Night	Auto(ICR) / Color / Black & White
IR LED Light	Irradiation distance: 30 m
White Balance	Auto/ Sunny / Outdoor / Manual
Digital Noise Reduction	3DNR ON/ OFF
Privacy masking	Up to 4 areas
Video Motion Detection	On/ Off
Lens	
Zoom ratio	4.4x Optical (Motorized zoom/ Motorized focus)
Focal Length	2.7 mm - 12 mm
Angular Field of View	H: 93° to 34° V: 50° to 18°
Network	
Network	10BASE-T/ 100BASE-TX, RJ45 connector
Resolution	1080P(1920×1080)1.3 M (1280×960) / 720P (1280×720)/ D1 (704×576/704×480) / CIF (352×288/352×240)
Image compression method	H.264/ H.264H/ H.264B/ MJPEG
Frame Rate	1 to 25/30 fps
Protocol	IPv4/ IPv6, HTTP, HTTPS, SSL, TCP/ IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP, QoS, Bonjour, 802.1x, ONVIF compatible
Maximum concurrent access number	20 users (Number of sessions that can connect to cameras at the same time)
Compatible micro SDXC/ SDHC memory card:*2 *3	4 ~ 64 GB
General	
Power source	12 V DC, PoE (IEEE802.3af compliant)
Power Consumption	12 V DC: 710 mA / Approx. 8.5 W PoE 48 V DC: 180 mA / Approx. 8.6 W (Class 0 device)
Ambient Operating Temperature / Humidity	-30 °C to +60 °C {-22 °F to 140 °F} 10 % to 90 % (no condensation)
Water and Dust Resistance	Main body: IP66
Dimensions	80 mm(W) × 213 mm(D) × 72 mm (H) {3-5/32 (W) × 8-3/8 (D) × 2-27/32 (H) inches}

*1 [Image Adjust] Shutter: (0-)80 ms, Gain: (0-)50"

*2 When repeatedly recording images on a micro SD memory card using the auto overwrite function, make sure to use a micro SD memory card with high reliability and durability.

*3 Use the micro SD memory card that complies with UHS-1 (Ultra High Speed-1) in the case of SD Speed Class 10.

Important

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DISTRIBUTED BY:

Full HD Weatherproof Dome Network Camera

Panasonic

K-EF234L Series K-EF234L01E

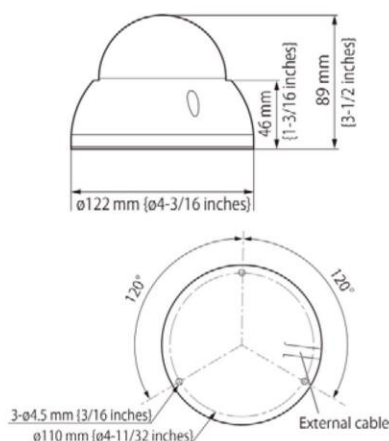
2 Megapixel 1080p Weatherproof Dome Camera Equipped with IR LED



Key Features

- High-performance CMOS image sensor.
- Vari Focal : 2.7 mm - 12 mm
- H.264 & MJPEG dual-stream encoding
- 30fps@1080P (1920 × 1080) & 30fps@720p (1280 × 720).
- Support ICR for day time and night time operation.
- Max. IR LEDs length 30 m.
- IP66 rated water and dust resistant.
- PoE.

Appearance



Specifications

Camera	
Image Sensor	Approx. 1/2.8 type CMOS image sensor
Min Illumination	0.2 lx / F1.4 (color)*, 0 lx / F1.4(IR on) ¹
Gain	Auto/ Manual
Back light compensation	OFF / BLC/ HLC/ WDR
Shutter speed	Auto/ Manual, 1/3 sec~1/100000 sec
Day / Night	Auto(ICR) / Color / Black & White
IR LED Light	Irradiation distance: 30 m
White Balance	Auto/ Sunny / Outdoor / Manual
Digital Noise Reduction	3DNR ON/ OFF
Privacy masking	Up to 4 areas
Video Motion Detection	On/ Off
Lens	
Zoom ratio	4.4x Optical (Motorized zoom/ Motorized focus)
Focal Length	2.7 mm to 12 mm
Angular Field of View	H: 34°(TELE) to 93°(WIDE) V: 18°(TELE) to 50°(WIDE)
Network	
Network	10BASE-T/ 100BASE-TX, RJ45 connector
Resolution	1080P(1920x1080) / 1.3 M (1280x960) / 720P (1280x720) / D1 (704x576/704x480) / CIF (352x288/352x240)
Image compression method	H.264/ H.264H/ H.264B/ MJPEG
Frame Rate	1 to 25/30 fps
Protocol	IPv4/ IPv6, HTTP, HTTPS, SSL, TCP/ IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP, QoS, Bonjour, 802.1x, ONVIF compatible
Maximum concurrent access number	20 users (Number of sessions that can connect to cameras at the same time)
Compatible micro SDXC/ SDHC memory card:*2 *3	4 ~ 64 GB
General	
Power source	12 V DC, PoE (IEEE802.3af compliant)
Power Consumption	12 V DC: 710 mA / Approx. 8.5 W PoE 48 V DC: 180 mA / Approx. 8.6 W (Class 0 device)
Ambient Operating Temperature / Humidity	-30 °C to +60 °C (-22 °F to 140 °F) 10 % to 90 % (no condensation)
Water and Dust Resistance	Main body: IP66
Vandal Resistant	Compliant with IK10 (IEC62262)
Dimensions	Φ122 mm × 89 mm (H) {ø4-13/16 inches × 3-1/2 inches (H)}
Weight (approx.)	Approx. 500 g {1.1 lbs}

1 [Image Adjust] Shutter: (0-)80 ms, Gain: (0-)50

*2 When repeatedly recording images on a micro SD memory card using the auto overwrite function, make sure to use a micro SD memory card with high reliability and durability.

*3 Use the micro SD memory card that complies with UHS-1 (Ultra High Speed-1) in the case of SD Speed Class 10.

Important

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DISTRIBUTED BY:

HD Weatherproof Box type Network Camera

Panasonic

K-EW114L Series K-EW114L01E

1.3 Megapixel 720p Weatherproof Box type Camera Equipped with IR LED

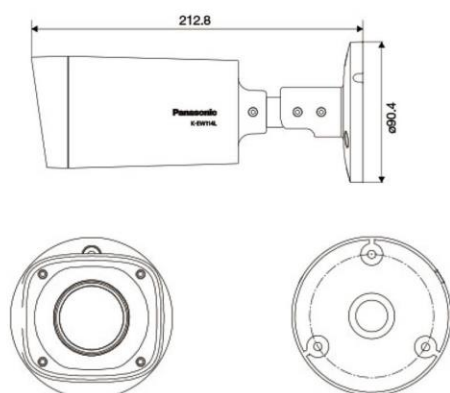
Specifications



Key Features

- High-performance CMOS image sensor.
- Vari Focal : 2.8 mm to 12 mm
- H.264 & MJPEG dual-stream encoding
- 30fps@1.3 M (1280 × 960) & 30fps@720p (1280 × 720).
- Support ICR for day time and night time operation.
- Max. IR LEDs length 30 m.
- IP66 rated water and dust resistant.
- PoE.

Appearance



Camera	
Image Sensor	Approx. 1/3 type CMOS image sensor
Min Illumination	0.1 lx / F1.4 (color)*, 0 lx (IR on)**1
Gain	Auto/ Manual
Back light compensation	BLC/ HLC/ WDR
Shutter speed	Auto/ Manual, 1/3 sec~1/100000 sec
Day / Night	Auto(ICR) / Color/ Black & White
IR LED Light	Irradiation distance: 30 m
White Balance	Auto/ Manual
Digital Noise Reduction	3DNR ON/ OFF
Privacy masking	Up to 4 areas
Video Motion Detection	On/ Off
Lens	
Focal Length	2.8 - 12 mm
Angular Field of View	H: 28° (TELE) to 92° (WIDE) V: 17° (TELE) to 47° (WIDE)
Network	
Network	10BASE-T/ 100BASE-TX, RJ45 connector
Resolution	1.3 M (1280x960) / 720P (1280x720)/ D1 (704x576/704x480) / CIF (352x288/352x240)
Image compression method	H.264/ MJPEG
Frame Rate	1 to 30 fps
Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP, IP Filter, QoS, Bonjour, ONVIF compatible
Maximum concurrent access number	20 users (Number of sessions that can connect to cameras at the same time)
General	
Power source	12 V DC, PoE (IEEE802.3af compliant)
Power Consumption	12 V DC: 710 mA / Approx. 8.5 W PoE 48 V DC: 180 mA / Approx. 8.7 W (Class 0 device)
Ambient Operating Temperature / Humidity	-30 °C to +60 °C {-22 °F to 140 °F} 10 % to 95 % (no condensation)
Water and Dust Resistance	Main body: IP66
Dimensions	80 mm (W) × 72 mm (H) × 212.8 mm (L) {3-5/32 inches (W) × 2-26/32 inches (H) × 8-3/8 inches (L)}
Weight (approx.)	Approx. 650 g {1.43 lbs}

*1 [Image Adjust] Shutter: (0-)80 ms, Gain: (0-)50"

Important

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- Specifications are subject to change without notice.

DISTRIBUTED BY:

Full HD Weatherproof Box type Network Camera

Panasonic

K-EW214L Series K-EW214L03E

2 Megapixel 1080p Weatherproof Box type Camera Equipped with IR LED

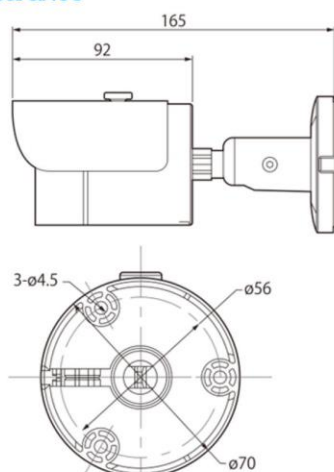
Specifications



Key Features

- High-performance CMOS image sensor.
- Focal length : 3.6 mm
- H.264 & MJPEG dual-stream encoding
- 30fps@1080P(1920 × 1080) & 30fps@720p (1280 × 720).
- Support ICR for day time and night time operation.
- Max. IR LEDs length 30 m.
- IP66 rated water and dust resistant.
- PoE.

Appearance



Camera	
Image Sensor	Approx. 1/2.7 type CMOS image sensor
Min Illumination	0.1 lx / F1.2 (color)*, 0 lx / F1.2 (IR on) ^{*1}
Gain	Auto/ Manual
Back light compensation	OFF/ BLC/ HLC/ WDR
Shutter speed	Auto/ Manual, 1/3 sec~1/100000 sec
Day / Night	Auto(ICR) / Color/ Black & White
IR LED Light	Irradiation distance: 30 m
White Balance	Auto/ Sunny/ Night/ Outdoor/ Manual
Digital Noise Reduction	3DNR ON/ OFF
Privacy masking	Up to 4 areas
Video Motion Detection	On/ Off
Lens	
Focal Length	3.6 mm
Angular Field of View	H: 90° V: 48°
Network	
Network	10BASE-T/ 100BASE-TX, RJ45 connector
Resolution	1080P(1920x1080) / 1.3 M (1280x960) / 720P (1280x720) / D1 (704x576/704x480) / CIF (352x288/352x240)
Image compression method	H.264/ H.264H/ H.264B/ MJPEG
Frame Rate	1 to 25/30 fps
Protocol	IPv4/ IPv6, HTTP, HTTPS, SSL, TCP/ IP, UDP, UPnP, ICMP, IGMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, DDNS, FTP, QoS, Bonjour, ONVIF compatible
Maximum concurrent access number	20 users (Number of sessions that can connect to cameras at the same time)
General	
Power source	12 V DC, PoE (IEEE802.3af compliant)
Power Consumption	12 V DC: 460 mA / Approx. 5.5 W PoE 48 V DC: 120 mA / Approx. 5.8 W (Class 0 device)
Ambient Operating Temperature / Humidity	-30 °C to +60 °C {-22 °F to 140 °F} 10 % to 90 % (no condensation)
Water and Dust Resistance	Main body: IP66
Dimensions	Φ70 mm × 165 mm (D) {ø2-3/4 inches × 6-1/2 inches (D)}
Weight (approx.)	Approx. 380 g {0.84 lbs}

*1 [Image Adjust] Shutter: (0-)80 ms, Gain: (0-)50"

Important

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- All pictures are simulated.
- Weights and dimensions are approximate.
- Specifications are subject to change without notice.

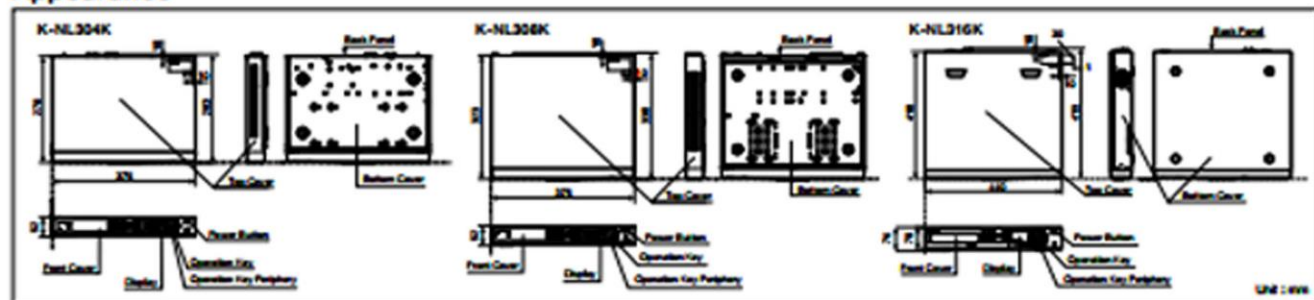
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Specifications

Model	K-NL304K	K-NL308K	K-NL316K
System			
Main Processor	Dual-core embedded processor		
Operating System	Embedded Linux®		
Language	English / Thai / Vietnamese		
Video / Audio			
IP Camera Input	4 channel (Only E-Series camera)	8 channel (Only E-Series camera)	16 channels (Only E-Series camera)
Audio	1channel Input (RCA), 1channel Output (RCA)		
Display			
Interface	1 HDMI, 1 VGA		1 HDMI, 1 VGA, 1 BNC
Resolution	1280 x 1080, 1280 x 1024, 1280 x 720, 1024 x 768		
Display Split	1 / 4	1 / 4 / 8 / 9	1 / 4 / 8 / 9 / 16
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording		
Recording			
Compression	H.264 / MJPEG		
Resolution	3 Mp (2048 x 1536) / 1080p (1920 x 1080) / 720p (1280 x 720) / D1 (704 x 480) / VGA (640 x 480) / CIF (352 x 240) & etc.		
Maximum Bandwidth	Total 200 Mbps or less		
Bit Rate	48 ~ 8192 kbps * Suggested to set bit rate for E-Series camera to 4 Mbps or less		
Record Mode	Manual, Schedule (Regular (Continuous), VMD, Alarm), Stop		
Record Interval	Recording duration : 1 ~ 120 min (default : 60 min), Pre-record : 1 ~ 30 sec, Post-record : 10 ~ 300 sec		
Video Detection & Alarm			
Alarm Action	Recording, PTZ, Tour, Alarm, Video Push, Email, FTP, Buzzer & Alarm pop-up		
Video Detection	Video Motion Detection, Camera Blank		
Alarm Input	4 channel		16 channel
Relay Output	2 channel		4 channel
Playback & Backup			
Sync Playback	1 / 4	1 / 4 / 8	1 / 4 / 8 / 16
Search Mode	Time/Date, Alarm, VMD & Exact search (accurate to second), Smart search		
Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow play, Next file, Previous file, Next camera, Previous camera, Full screen, Repeat, Backup selection, Digital zoom		
Backup Mode	USB Device / Network		USB Device / Network / eSATA Device
Network			
Ethernet	1 RJ45 port (10 / 100 / 1000 Mbps)		
PoE	4 ports (IEEE802.3at)	8 ports (IEEE802.3at)	16 ports (IEEE802.3at)
Network Function	HTTP, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, ONVIF, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, IP Search * Suggested to synchronize to external NTP server		
Max. User Access	128 users		
Smart Phone	iPhone, iPad, Android™		
Storage			
Internal HDD	2 SATA ports, up to 12 TB		4 SATA ports, up to 24 TB (External HDD : 1 eSATA port)
External Interface			
USB	2 ports (1 Rear USB3.0, 1 Front USB2.0)		
General			
Safety / EMS Standard	<Safety> : CE, IEC60950-1 <EMC> : EN55022 Class B, EN55024		
Power Supply	DC12 V / 4 A (For main unit) DC48 V / 1.04 A (For PoE)	AC 100 to 240 V, 50/60 Hz (For main unit)	AC 100 V to 240 V, 50/60 Hz (For main unit)
Power Consumption	NVR : 30 W (without HDD) PoE : Max 25.5 W for single port		
Ambient Operating Temperature / Humidity			
Dimension (W x D x H)	375 mm (W) x 278 mm (D) x 52 mm (H)	375 mm (W) x 325 mm (D) x 52 mm (H)	440 mm (W) x 410 mm (D) x 70 mm (H)
Weight	2.0 kg (without HDD)	2.5 kg (without HDD)	6 kg (without HDD)

- Auto Reboot (once a week)
- See support web page below for further details
<http://security.panasonic.com/pss/security/library/e-series.html>

Appearance



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 - Linux® is the registered trademark of Linus Torvalds in the U.S. and other countries.
 - iPad, iPhone and iPod touch are registered trademarks of Apple Inc.
 - Android is a trademark of Google Inc.

Important
 - Safety Precautions: Carefully read the Important Information, Installation Guide and operating instructions before using this product.
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- Masses and dimensions are approximate.
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<http://security.panasonic.com/pss/security/library/e-series.html>

GA-127EA



16 ch PoE (K-NL316K) / 4 ch 4 PoE (K-NL304K) / 8 ch 8 PoE (K-NL308K)
Network Video Recorder

Key Features

- Up to 4 (K-NL304K) / 8 (K-NL308K) / 16 (K-NL316K) channel with 1080p realtime live view
- H.264 / MJPEG dual codec decoding
- Max 200 Mbps incoming bandwidth
- HDMI / VGA / BNC (K-NL316K) simultaneous video output
- 4 / 8 / 16 channel synchronous realtime playback
- Support 2 SATA HDDs up to 12 TB, 2 USB (1 USB3.0) (K-NL304K / K-NL308K)
- Support 4 SATA HDDs up to 24 TB, 1 eSATA up to 16 TB, 2 USB (1 USB3.0) (K-NL316K)
- 4 PoE (K-NL304K), 8 PoE (K-NL308K), 16 PoE (K-NL316K) ports
- Multiple network monitoring : Web browser, EMS* (E-Series Management Software) & Mobile-EMS*
- Multi-Language : English / Thai / Vietnamese

* EMS & Mobile-EMS do not support i-PRO series NVR

* Panasonic Security Viewer is not supported