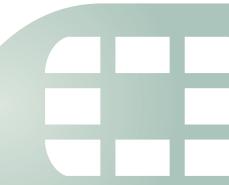


FortiCam FD40 QuickStart Guide



November 6, 2015

1st Edition

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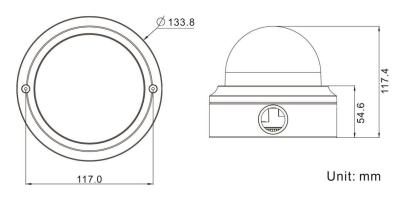
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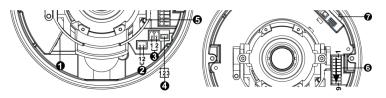
Package Contents



Dimensions



Interfaces



No	Pin	Definition	Description	No	Pin	Definition	Description
1		RJ-45	Ethernet/PoE	6	1	Audio In L	Audio In
2	1	BNC	Analog video		2	Audio In R	
	2	GND	output		3	GND	
3	1	DC12/AC24V	Power (jack		4	Audio Out L	Audio Out
	2	GND/AC24V	included)		5	Audio Out R	
4	1	D+	RS-485		6	Alarm Out +	Alarm
	2	D-			7	Alarm Out -	connection
	3	GND			8	Alarm in +	
5		Reset button	Press for 20		9	Alarm in -	
			seconds	7		SD card slot	Video storage

Hardware Installation

FortiCam FD40 4MP ultra-WDR fixed dome camera can be mounted indoor/outdoor on walls, ceilings, corners, or poles. Contact Fortinet for extra mounting accessories that suit your mounting requirements. For detailed mounting instructions, see the FortiCam FD40 Mounting Guide on http://docs.fortinet.com

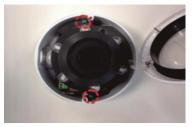
Caution: Adequate grounding must be provided to the unit and the PoE injector, in compliance with your local electrical code or regulations.

Basic installation

- Drill two holes in the wall or ceiling, using the drilling template as a guide.
- 2. Open the dome cover by removing the two screws.



3. Detach the camera module from the camera housing.



4. Fasten the camera housing to the wall or ceiling with the supplied anchors, screws, and rubber washers. For outdoor usage, also install the foam pad in between the wall and the camera.



Install the camera module and the dome cover. Use lubricant if neccessary.

Lens angle adjustment

- 1. Open the dome cover.
- 2. Turn the lens up, down, left, right, clockwise, or counter clockwise



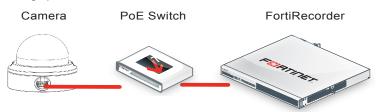
3. Tighten the tilt screw to stablize the lens angle.



 The motorized lens allows for zoom and focus adjustment via FortiRecorder.

Connecting the Camera

Caution: This device complies with IEEE 802.3af PoE specification. Do not use any PoE injectors that are not IEEE 802.3af compliant as they may damage your device.





Side Conduit Entry

Back Conduit Entry

To connect

- 1. Open the dome cover.
- To use the back conduit entry, remove the entry block with a coin and screw it to the side entry.
- 3. To use the side conduit entry, insert the Ethernet cable through the cable gland and install the gland to the side entry. Seal the unused gland cable opening with the supplied plug. Note that the side and back openings are compatible with 3/4" EMT conduit.



Connect the camera to a FortiRecorder NVR via a PoE switch. The camera gets its IP address from the DHCP server automatically.

Note: The camera's fallback IP address is 192.168.1.245.

After you have connected the camera to the FortiRecorder NVR, you can start to configure the camera settings from the FortiRecorder side. For details, see the FortiRecorder Administration Guide on http://docs.fortinet.com.

Technical Specifications

Camera	
Format	Ultra-WDR day/night, fixed dome, indoor/outdoor, vandal
Sensor Type	4 mega-pixel, 1/3" progressive CMOS
Optical Zoom	3x
Iris	F1.6, P-Iris
Focal Length	3-9 mm (motorized, autofocus)
View Angle	H: 109°-33°
Minimum Illumination	0.1 Lux (color), 0.01 Lux (B/W) @ F1.2
Wide Dynamic Range	Shutter WDR (>120 dB)
Network Interface	RJ-45 Ethernet 10/100Mbps
IRLED/IRC	40m/yes
DNR	3DNR
Streaming Protocol	RTSP
Video Compression	MJPEG/H.264 (MPEG-4 Part 10/AVC) Baseline/Main/High Profile

Image Resolution	2688x1512 at 30fps Full HD 1080P/SXGA/720P/XGA/SVGA/D1/ VGA/CIF			
Audio	Line in/out			
Mounting	Wall, ceiling, pole, 3/4" conduit			
Dimensions				
Height x Width x Length	4.6x5.2x5.2in (117x134x134mm)			
Weight	1.69lbs (770g)			
Environment				
Power Required	PoE 802.3af			
Power Consumption (AVG)	Cold start 8.5W (13.34W max with heater)			
Operating Temperature	-67-131°F (-55 - 55°C)			
Humidity	10-90% non-condensing			
Compliance				
CE/FCC/RoHS/IP66/IK10/ONVIF Profile S				

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Regulatory Notices

Federal Communication Commission (FCC) - USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received; including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

WARNING: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Industry Canada Equipment Standard for Digital Equipment (ICES) - Canada

CAN ICES-3 (A) / NMB-3 (A)

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Cet appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicte par le ministère des Communications du Canada.

European Conformity (CE) - EU

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



Cautions and Warnings

Environmental Specifications

Refer to specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude).

Référez à la Fiche Technique de ce produit pour les caractéristiques environnementales (Température de fonctionnement, température de stockage, humidité et l'altitude).

Safety

Caution: This equipment is to be used in a Network Environment 0 per IECTR 62101. This product is connected only to PoE networks without routing to the outside plant.

Attention: Ce matériel doit être utilisé dans un Environnement Réseau 0 par IECTR 62101. Ce produit est uniquement connecté aux réseaux PoE sans installation externe de routage.

This product is intended to be supplied by POE injector or by a UL Listed / IEC Certified ITE AC/DC adaptor rated output 12 Vdc, 3A or 24Vac, 2A. (marked LPS or Class 2).

The connecting cable between the outdoor equipment and the indoor ITE devices should comply with Class 3 wiring methods as listed in NEC, Table 725.154(G) for Class 3 Cable Substitutions.

Le câble connectant l'équipement extérieur et ceux d'intérieur de type ITE doit être conforme avec les méthodes de câblage de classe 3 tel que listé dans le standard NEC, Table 725.154(G) pour les câbles de substitutions de classe 3.

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