FortiAPCam-214B
QuickStart Guide

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Package Contents

Your box should contain:

- FortiAPCam-214B camera
- This QuickStart Guide
- RJ45 Ethernet cable
- 1x 3.5mm male to 3.5mm female cable for audio-in
- 1x 3.5mm male to RCA/3.5mm cable for AV-out
- 1x Allen wrench for security case removal/installation
- 4x screws and 4x anchors for ceiling mounting

FortiAPCam-214B unit

Allen wrench

Ethernet cable

LRCA AV-out cable, anchors, screws, and audio-in cable

Hardware Installation

Using the provided hardware, the FortiAPCam unit can be attached to a ceiling.

To connect

1. Fasten a single screw to the desired location on a ceiling and position the unit so that the screw fits securely into the slot located in the centre of the flat bottom of the unit.
2. Secure unit to the ceiling by inserting screws through the three tabs located along the edge of the unit.
3. Attach the dome over the unit and secure it in place using the two screws located on either side of the dome.

To reboot

- Press and hold the Reset button for less than 5 seconds to reboot both the camera and AP part of the system.

To reset to factory default settings

- Press and hold the Reset button for more than 5 seconds to reset both the camera and AP part of the system to factory default.

Connecting your Unit

Using the provided mounting hardware, attach the FortiAPCam unit to a ceiling, as described in the previous section.

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

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.

To connect the FortiAPCam unit

1. Connect the unit to a PoE switch.
2. Connect your FortiGate or FortiWiFi unit to the switch to use the access point function.
3. Connect your FortiRecorder to the switch to use the video surveillance function.

Note: For FortiWiFi units, the wireless controller feature is only supported on units running FortiOS 4.0 MR3 and higher.

Caution: This equipment is to be connected only to PoE networks without routing to the outside plant.

Configuring your Unit

For the camera part of the unit, configuration is done through the connected FortiRecorder NVR. For details, see the *FortiRecorder Administration Guide* at http://docs.fortinet.com.

For the access point part, no configuration is required if the unit is directly connected to the FortiGate or FortiWiFi performing the Wireless LAN Controller (WLC) functions, or on the same layer-2 network and subnet as the FortiGate or FortiWiFi unit.

If the FortiAPCam wireless controller's IP address cannot be determined using Zero Configuration mode, or if the network uses static IP addresses, it can be configured to use a static IP address.

To enable the FortiAPCam using Zero Configuration

1. After connecting the FortiAPCam unit, the unit goes through its boot procedure and requests an IP address from the DHCP server.

2. If the IP address is retrieved successfully, the FortiAPCam enters discovery mode to locate a FortiGate or FortiWiFi wireless controller. The discovery modes are:
    *   Broadcast
    *   Multicast
    *   DHCP option 138

3. Verify that the FortiAPCam has successfully connected to the controller.

In the FortiGate Web-based Manager, go to *WiFi & Switch Controller > Managed Devices > Managed FortiAPs*. A successfully discovered unit displays an orange circle with a question mark.

4. Select the access point and click the *Authorize* button.

   The configuration is downloaded from the wireless controller to the FortiAP and the WiFi LED lights up.

To enable the FortiAPCam with a static IP address

1. Connect the FortiAPCam device to a separate private switch or hub, or directly connect it to your management computer via a cross-over cable.

2. Configure the management computer to be on the same subnet as the internal interface of the FortiAPCam unit, which default IP address is 192.168.1.2.

   a. For example, in Windows 7, browse to the *Network and Sharing Center > Change Adapter Settings > Local Area Connection Properties > Internet Protocol Version 4 (TCP/IPv4) Properties*.

   b. Change the IP address of the management computer to 192.168.1.3 and the netmask to 255.255.255.0.

3. Use a Telnet apllication to connect to IP address 192.168.1.2.

4. Type admin in the *Name* field, leave the *Password* field blank, and press *Enter*.

5. Configure a static IP address for the FortiAPCam unit and netmask & gateway information for your network, using the following commands:
   ```
   cfg -a ADDR_MODE=STATIC
   cfg -a AP_IPADDR=xxx.xxx.xxx.xx
   cfg -a AP_NETMASK=255.255.255.0
   cfg -a IPGW=yyy.yyy.yyy.yyy
   cfg -a AC_IPADDR_1=zzz.zzz.zzz.zzz
   ```
   where xxx is the IP address of the FortiAPCam unit, yyy is the Gateway IP address and zzz is the IP address of the FortiGate Wireless Controller.
6. Save the configuration by typing the following command:
   ```
   cfg -c
   ```
7. Unplug the FortiAPCam unit and plug it back in order for the configuration to take effect.
8. Move the FortiAPCam to the intended deployment location and connect the Ethernet cable.
9. Log in to the FortiGate controller Web-based Manager, and go to *WiFi & Switch Controller > Managed Devices > Managed FortiAPs*. A successfully discovered unit displays an orange circle with a question mark in the *Status* column.
10. Select the access point and click the *Authorize* button .
11. In the *Edit FortiAP* dialog box, select *Enable Wireless Radio*. Leave the remaining settings at their default values. The configuration is downloaded from the FortiGate unit to the FortiAPCam device.

For more information, see the *Deploying Wireless Networks Guide*, available on Fortinet's technical documentation website, http://docs.fortinet.com.

Front and Back Views

The following images display the front and back views, respectively, of the FortiAPCam unit.

FortiAPCam-214B – Front View
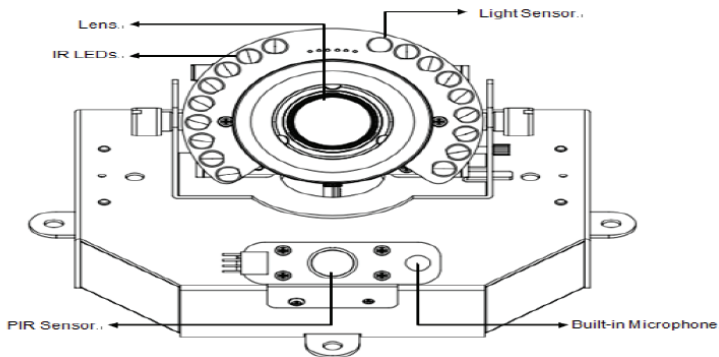
FortiAPCam-214B – Back View

DC-IN
(not supported)

Audio-In
(not supported)

Audio-Out
(not supported)

Reset

Focus
Assist

GND

ALM-Out

ALM-In

RJ-45

Power LED

Status LED

Micro SD

NTSC

PAL
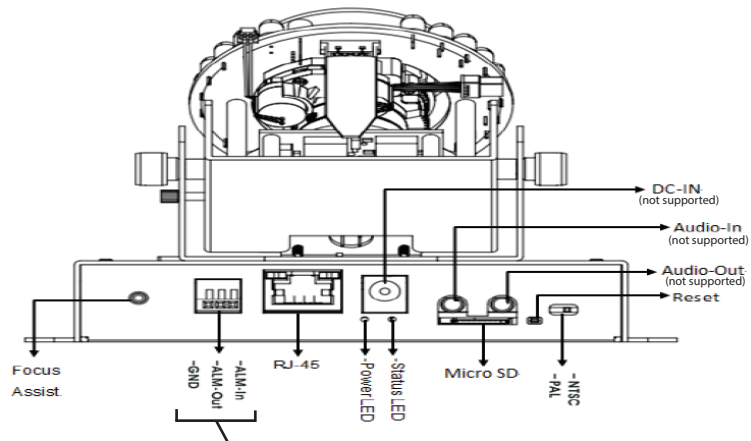
DIDO connector:
1: Alarm In
2: Alarm Out
3: GND

1
2
3
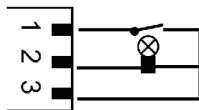
Technical Specifications

Camera	
Format	Fixed dome
Sensor Type	2 mega-pixel, 1/2.7" CMOS, WDR
Iris	F1.2, 0.01 Lux B/W, 0.2 Lux colour
Focal Length	f = 3 mm–9 mm
View Angle	H: 93°–31.7°
IRLED/IRC	15m/yes
Streaming Protocol	RTSP/HTTPS
Video Compression	H.264/MJPEG/MPEG-4
Image Resolution	1920 x 1080 at 30 fps 1280 x 720 at 30 fps 720 x 480 at 30 fps
Audio	Two-way line in/line out, built-in mic
Interface	1 DI, 1 DO, RJ45 Ethernet 10/100 Mbps, PIR 15 ft. (5 m)
Mounting	Ceiling, 0–90°V

Dimensions	
Height x Width x Length (in)	3.9 x 5.5 x 5.5
Height x Width x Length (mm)	100 x 140 x 140
Weight	1.5 lbs (0.68 kg)
Environment	
Power Required	PoE 802.3af, 12.5W
Power Consumption (AVG)	5.5W
Operating Temperature	32-104°F (0-40°C)
Humidity	10-80% non-condensing
Deployment	Indoor only
WiFi	
Frequency Bands	802.11 b/g/n, 2.4GHz; 802.11 a/n, 5GHz

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Email: register@fortinet.com

Cautions and Warnings

Environmental Specifications

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

Safety

Power over Ethernet (PoE) — Do not connect this device to PoE networks with routing to the outside plant. Use this equipment in a Network Environment 0 per IECTR 62101. Do not use PoE injectors that are not IEEE 802.3af compliant. They may damage your device. The unit is intended to be powered by PoE source of a LPS UL Listed or Class 2 IEC certified power adaptor.

Alimentation par Ethernet — Ce matériel doit être utilisé dans un Environnement Réseau 0 par IECTR 62101. Ce matériel est uniquement connecté aux réseaux PoE sans installation externe de routage. Cet appareil est conforme aux normes IEEE 802.3af. Ne pas utiliser d'autres injecteurs d'alimentation non conformes sous peine d'endommager votre matériel. Le produit doit être alimenté par une source PoE d'une alimentation à puissance limitée (UL Listed) ou par une alimentation Class 2 certifiée par IEC.

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 B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installation. 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. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

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

Radiation Exposure Statement: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Caution: Operations in the 5.15-5.25GHz band are restricted to indoor usage only.

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