



# FortiCam SD20

## QuickStart Guide



December 9, 2014

1st Edition

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# Package contents

The package box contains:

FortiCam SD20 camera

QuickStart Guide

Optical cover

Waterproof rubber

Lubricant

Security Torx wrench

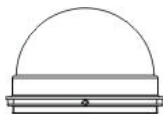
Screw bag



QuickStart  
Guide



Optical Cover



Waterproof Rubber



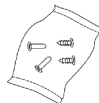
Lubricant



Torx Wrench



Screw Bag



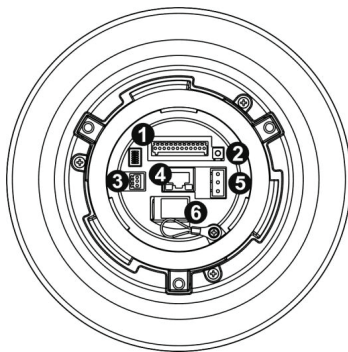
# Hardware installation

FortiCam SD20 full HD ultra-WDR speed dome cameras 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 SD20 Mounting Guide on [docs.fortinet.com](https://docs.fortinet.com).

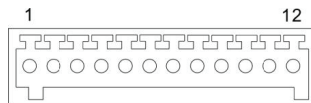
**Caution:** In many countries, surveillance is restricted by law. Before installing, consult your legal advisor.

## Connectors on the camera back

- 1 Alarm I/O connector
- 2 Reset button: press for at least 20 seconds to reset the system
- 3 Audio I/O connector
- 4 RJ45 Connector for Ethernet and PoE connections
- 5 Power (AC 24V) connector (Power adaptor not supplied)
- 6 Micro SD card slot (not in use)



## Alarm I/O connection



<b>1</b>	Alarm Out NO 1	<b>7</b>	Alarm Out COM 2
<b>2</b>	Alarm Out NC 1	<b>8</b>	GND
<b>3</b>	Alarm Out COM 1	<b>9</b>	Alarm In 4
<b>4</b>	GND	<b>10</b>	Alarm In 3
<b>5</b>	Alarm Out NO 2	<b>11</b>	Alarm In 2
<b>6</b>	Alarm Out NC 2	<b>12</b>	Alarm In 1

## Audio I/O connection

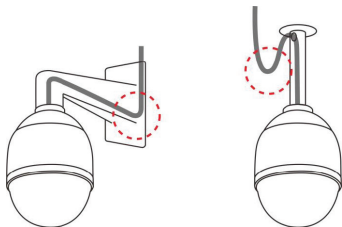


<b>1</b>	Audio Out
<b>2</b>	GND
<b>3</b>	Audio In

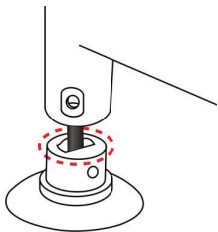
## Outdoor cabling

The outdoor cameras are IP66-rated for weather-proof. However, water may still enter the camera if it is not properly installed. Follow the instructions when installing the camera.

- When running cables, slightly bend the cables to a U-shaped curve to make a low point. This is to prevent water from entering the camera along the cables from above.



- Seal the cable entry hole with the provided sealant.



# Technical specifications

## Hardware Specifications

<b>Format</b>	Indoor/outdoor
<b>Sensor Type</b>	1/2.8" Sony CMOS
<b>Optical/Digital Zoom</b>	30x/12x
<b>Minimum Illumination</b>	0.5 lux (Color), 0.095 (B/W) @ F1.6
<b>Focal Length</b>	f = 4.3 mm–129 mm
<b>Pan Travel</b>	360° endless
<b>Tilt Travel</b>	-10° ~ 190°
<b>Streaming Protocol</b>	RTSP / HTTPS
<b>Video Compression</b>	H.264/MJPEG
<b>Image Resolution</b>	1920 x 1080 at 30 fps
<b>Audio Compression</b>	G.711/G.726
<b>Audio Streaming</b>	Two-way Audio
<b>Networking</b>	10/100 Base-T RJ-45



## Dimensions

<b>Width x Length (in)</b>	7.55 x 11.10 (with sunshield)
<b>Width x Length (mm)</b>	191.97 x 282.11 (with sunshield)
<b>Weight</b>	5.07 lbs (2.3 kg)

## Power

<b>Power Required</b>	802.3at PoE+ (60 W)
<b>Power Consumption (AVG)</b>	59 W (with heater)

## Compliance

CE, FCC, RoHS

# Register for support

## **Register your Fortinet product to receive:**

- Technical support
- New product features
- Protection from new threats

## **Vous devez enregistrer le produit pour recevoir:**

- Support technique
- Nouvelles fonctionnalités du produit
- Protection contre de nouvelles menaces

## **La reistruzione ti permette di usufruire di:**

- Supporto tecnico
- Nuove funzionalità
- Protezione dalle ultime minacce

## **Debe registrar el producto para recibir:**

- Apoyo técnico
- Nuevas funcionalidades del producto
- Protección contra ataques

## **下記フォーティネットからのサービスを受けるために、ご購入製品の登録が必要です:**

- テクニカルサポート
- 新機能の追加
- 新しい脅威への防御

## **注册您的飞塔产品后可以得到:**

- 技术支持
- 新产品特点信息
- 最新威胁防护

Web: <https://support.fortinet.com/>

Toll free: 1 866 648 4638

Phone: 1 408 486 7899

Fax: 1 408 235 7737

Email: [register@fortinet.com](mailto: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)

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

## Safety

**Battery** — Risk of explosion if the battery is replaced by an incorrect type. Do not dispose of batteries in a fire. They may explode. Dispose of used batteries according to your local regulations. IMPORTANT: Switzerland: Annex 4.10 of SR814.013 applies to batteries.

**Batterie** — Risque d'explosion si vous remplacez la batterie par un modèle incompatible. Jetez les piles usagées selon les réglementations locales en vigueur. IMPORTANT: Suisse: Annexe 4.10 de SR814.013 s'appliquant aux batteries.

### 警告

本電池如果更換不正確會有爆炸的危險

請依製造商說明書處理用過之電池

**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.

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.

# 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 product 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.

Le présent 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 édicté 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.



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Fortinet warrants that the hardware portion of the Products, including spare parts unless noted otherwise ("Hardware") will be free from material defects

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