

FortiCamera™

FortiCamera FD40, FD20, MD40, MD20, OB30, CB20, MB40, SD20 and FortiAPCam 214B

Get complete visual coverage inside and out with FortiCameras. With options for indoor and outdoor, vandal-proof, weatherproof, low-light night vision, fixed and motorized zoom lenses and 2-way audio, there's a FortiCam that fits every environment. All FortiCams deliver crisp, high-resolution HDTV-quality images to any FortiRecorder NVR, either continuously or triggered by a range of events, including motion and/or audio detection.



Easy to set up, license-free

With FortiCameras, installation is a breeze. They support PoE, eliminating the need for AC power. Just connect the camera to the FortiRecorder network via a PoE switch and you're up and running. No software installation, no patches and, unlike using third-party cameras, no license fees.



Highlights

- Scheduled and manual recording
- Motion detection and continuous recordings
- Snapshot notifications and alerts
- Web-based interface (no software installation required)
- Camera live view and video playback
- Event monitor with timeline
- RADIUS, LDAP, SNMP and remote data storage support for flexible network integration
- Powerful Windows client FortiCentral
- Mobile access on iOS and Android

Key Features and Benefits



Clear high-definition visuals, even in the dark

Your security footage won't be much use if you can't see what's going on. HDTV-quality and advanced low-light and infrared ensure that you can see the details.

Continuous or event-based surveillance

Capture everything or capture selectively based on events including motion detection, sound detection or scheduled times.

Auto-discovery by FortiRecorder NVRs

Setup is a snap: plug into FortiRecorder network and the rest is automatic.

HIGHLIGHTS

FortiCamera FD40

A flagship of Fortinet's Network camera lineup this model has it all. High-performance 4MP resolution at 30 fps captures the smallest detail through a precision motorized 3x autofocus zoom lens. Complicated or low light situations are mastered with ease using True Shutter Ultra-WDR (>120 dB) and excellent low light sensitivity (0.01 Lux in b/w). In case this is not enough, a long range 130-foot IR spot will brighten the darkest scene. Triple-axis wall or ceiling mount plus 3/4" EMT conduit compatibility are the professional choice for installation. This rugged camera is designed to IK10 rating for vandalism and is suitable for extreme temperatures from -55–55°C while still using standard PoE 802.3af.



FortiCamera FD20

This fixed dome camera is a popular configuration and delivers outstanding flexibility and utility at an affordable price. The crisp 1080p resolution image can cover up to 91 degrees horizontal making it perfect for left to right corner views. Its direct wall mountable triple-axis modular design allows mounting flexibility by installing the baseplate and housing first while adding the camera module later. Rated IK10 for vandalism, removable sun shield and indoor/outdoor capabilities with good 100-foot IR range round this versatile camera model.

FortiCamera MD40

Packed with enhanced features, this compact design delivers exceptional results in any situation. It's crisp 4 MP images over the 85-degree viewing range are streamed in high efficiency H.265 encoding thus saving bandwidth and storage space. Combined with the extended temperature range, IP67 and IK09 rating, the FCM-MD40 stands up to challenging sites. Even complicated light situations are handled by the >120 dB Shutter WDR mode and integrated IR LED at night. A great choice, easily mounted and attractively priced.



FortiCamera MD20

With smooth lines and unobtrusive size, this camera looks good indoors and it is tough enough for sheltered outdoor positions. Despite the small package it has full HD 1080p resolution at 30 fps. The easy to adjust eyeball design can point the 70-degree view fixed lens at doors, customer areas, reception desks or hallways. When the lights go out a high powered IR LED steps in giving you carefree 24/7 surveillance.

HIGHLIGHTS



FortiCamera OB30

Bold and rugged — this camera makes a statement both visually and technically. Performance features like the 3x motorized zoom lens with autofocus generating razor sharp images on the 3 megapixel sensor are enhanced by the sturdy housing rated IK10 for vandalism and IP67 for water and dust resistance. The integrated heater extends temperature range to -40–60°C. To master high contrast light situations the FCM-OB30 has a >100 dB Shutter WDR mode. Smart IR harnesses the power of its 100-foot range LED illumination by automatically lowering intensity if close targets appear. This avoids overexposure while still keeping the full night vision range.

FortiCamera CB20

The FortiCam CB20 offers great quality video in almost any situation. It's compact design looks good indoors and out. The wide angle varifocal lens delivers crisp panoramic views or zoomed-in views for details. Advanced infrared LED technology delivers an extended 100-foot range at night. Mounting in any direction is a breeze with the sturdy cable-managed bracket. A no-frills approach and focus on core features makes this model a price/performance winner.



FortiCamera MB40

Designed with a clean and modern housing, the premium FCM-MB40 mini box camera combines versatility with easy setup. Small and lightweight with a swivel bracket that can be mounted on the top or back of the camera, it is very easy to install. This is a perfect choice for entrances and door surveillance where the true Wide Dynamic Range (>120 dB) masters challenging light contrasts and faces can be captured with high resolution clarity. The wide angle 100-degree lens allows good overview in confined indoor environments. Audio is supported with the built-in microphone. For low light and even complete darkness, this camera has incorporated Day/Night mode, 3D motion compensated noise reduction and a 15-foot IR illuminator.

HIGHLIGHTS



FortiCamera SD20

Any video surveillance project will benefit from the addition of professional-grade FortiCamera FCM-SD20 high-speed dome cameras in strategic positions. Its 360-degree continuous pan operation and above-horizon tilt provides a watch-tower overview. Quickly look around and smoothly follow incidents with precision mechanics and high-quality autofocus. Then narrow it down utilizing ultra-fine adjustment/positioning.

View close-up detail, identify faces and read license plates at long distances with 2MP HD digital clarity. The superior optical 30x zoom range is supported by electronic image stabilization to allow steady shots at long range even if wind or vibration is present.

For ease of mind, true wide dynamic range (shutter WDR >96dB) masters tricky light situations while 0.09 Lux night sensitivity generates great images even in dimly lit areas.

FortiAPCam 214B

Integrating a camera plus WiFi access point, the FortiAPCam 214B cuts clutter and simplifies the installation of your security and your wireless systems by combining the two. It delivers the high-security wireless networking that Fortinet's access points are known for in the body of a high-resolution day and night security camera with a wide dynamic range, passive infrared sensor, DI/DO and tamper detection.

Wide dynamic range (WDR) technology compensates for lighting imbalances, capturing detail that other cameras can miss. Built-in infrared LED lights allow it to see in the dark up to 45 feet away. Varifocal lens with wide viewing angle to match almost any situation. The passive infrared (PIR) sensor detects motion up to 15 feet away, automatically activating the infrared lights.

The built-in wireless access point delivers secure, identity-driven WiFi access. Managed by a FortiGate or FortiWiFi platform with its integrated wireless controller, the FortiAPCam 214B allows you to deploy a comprehensive integrated security solution for your wireless and wired networks. The access point is 802.11 a/b/g/n standards-based and operates on both 2.4 GHz b/g/n and 5 GHz a/n.



SPECIFICATIONS



	FORTICAMERA FD40	FORTICAMERA FD20	FORTICAMERA MD40	FORTICAMERA MD20
Description	Ultra-WDR Day/Night IP Video Security Camera	Versatile Day/Night IP Video Security Camera	Day/Night IP Video Security Camera	Day/Night IP Video Security Camera
Format *	Fixed Dome, Indoor/Outdoor, vandal	Fixed Dome, Indoor/Outdoor, vandal	Mini Dome, Indoor/Outdoor, vandal	Mini Dome, Indoor/Outdoor
Sensor Type	4 mega-pixel, 1/3" Progressive CMOS	2 mega-pixel, 1/2.8" Sony CMOS	4 mega-pixel, 1/3" Progressive CMOS	2 mega-pixel, 1/2.8" Sony CMOS
Iris	F1.6, P-Iris	F1.4, fixed	F1.6, fixed	F1.4, fixed
Optical Zoom	3x	4x	—	—
Digital Zoom	—	—	—	—
Focal Length	3–9 mm (motorized, autofocus)	f = 2.8 mm–12 mm varifocal	f = 3.6 mm	f = 3.6 mm
View Angle	H: 109°–33°	H: 91°–31° V: 79°–23° D: 138°–40°	H: 85.2°	H: 70° V: 59° D: 107°
Minimum Illumination	0.1 Lux (Color), 0.01 Lux (B/W) @ F1.2	0.05 Lux (Color), 0.01 Lux (B/W) @ F1.4	0.008 Lux (Color) @ F1.2, 0.004 Lux (B/W) @ F1.2	0.05 Lux (Color), 0.01 Lux (B/W) @ F1.4
Wide Dynamic Range	Shutter WDR (>120 dB)	Digital	Shutter WDR (>120 dB)	Digital
Streaming Protocols	RTSP	RTSP	RTSP	RTSP
Video Compression	MJPEG / H.264 (MPEG-4 Part 10/AVC) Baseline / Main / High Profile	H.264	MJPEG / H.264 / H.265 (HEVC)	H.264
Image Resolution	2688 x 1512 at 30 frames per second Full HD 1080P/SXGA/720P/XGA/ SVGA/D1/VGA/CIF	1920 x 1080 at 25 frames per second 1280 x 720 at 25 frames per second	2592 x 1520 at 20 frames per second 2304 x 1296 at 30 frames per second Full HD 1080P/SXGA/720P/XGA	1920 x 1080 at 25 frames per second 1280 x 720 at 25 frames per second
Audio	Line in/out	Line in/out	One-way, built-in mic	—
Interface	1 DI, 1 DO, RJ45 Ethernet 10/100 Mbps	1 DI, 1 DO, RJ45 Ethernet 10/100 Mbps	RJ45 Ethernet 10/100 Mbps	RJ45 Ethernet 10/100 Mbps
Mounting	Wall, ceiling, 3/4" Conduit	Wall, ceiling, 3-axis, optional sunshield	Wall, ceiling, 3-axis	Wall, ceiling, 3-axis
Operation				
Pan / Tilt	—	—	—	—
Presets / Accuracy / Speed	—	—	—	—
IRLED / IRC	40m / Yes	30m / Yes	20m / Yes	25m / Yes
EIS / DNR	— / 3DNR	— / 3DNR	— / 3DNR	— / Yes
Dimensions				
Height x Width x Length (inches)	4.6 x 5.2 x 5.2	6.3 x 4.5 x 4.5	2.6 x 4.4 x 4.7	2.6 x 4.8 x 5.0
Height x Width x Length (mm)	117 x 134 x 134	161 x 115 x 115	65 x 110.8 x 118.5	65 x 123 x 126
Weight	1.69 lbs (770 g)	2.13 lbs (965 g)	1.1 lbs (500 g)	0.68 lbs (310 g)
Environment				
Power Source	PoE (802.3af) / DC 10–48V / AC 24V	PoE (802.3af) / DC12V±10% / AC 24V±10%	PoE (802.3af)	PoE (802.3af) / DC12V±10%
Power Consumption (Average)	Cold start 8.5 W > Operation 13.34 W max with heater	3.5 W (9 W IR ON)	2.5 W; 5.5 W max (with IR on)	5 W
Operating Temperature	-67–131°F (-55–55°C)	14–122°F (-10–50°C)	-22–140°F (-30–60°C)	14–122°F (-10–50°C)
Humidity	10–90% non-condensing	0–85% non-condensing	0–90% non-condensing	0–85% non-condensing
Compliance				
Regulatory and Standards	CE / FCC / RoHS / IP66 / IK10 / ONVIF Profile S	FCC Class B, CE Mark, weatherproof (IP66), IK10, ONVIF2.2	FCC Class B, ICES, CE, UL, IP67, IK09, ONVIF Profile S	FCC Class B, CE Mark, IP65, ONVIF2.2

* For all outdoor installations, Fortinet suggests to avoid direct sunlight for better image quality and longer service life.

SPECIFICATIONS



	FORTICAMERA OB30	FORTICAMERA CB20	FORTICAMERA MB40
Description	Professional Day/Night IP Video Security Came	Day/Night IP Video Security Camera	Day/Night IP Video Security Camera
Format *	Outdoor/Indoor Bullet, vandal	Compact Bullet, Indoor/Outdoor	Mini Box, Indoor
Sensor Type	3 mega-pixel, 1/3" Progressive CMOS	2 mega-pixel, 1/2.8" Sony CMOS	4 mega-pixel, 1/3" Progressive CMOS
Iris	F1.4, P-Iris	F1.4 fixed	F2.0, fixed
Optical Zoom	3x	4x	—
Digital Zoom	—	—	—
Focal Length	f = 3 mm–10 mm (motorized, autofocus)	f = 2.8 mm–12 mm varifocal	f = 2.8 mm
View Angle	H: 82°–34° V: 63°–26° D: 103°–43°	H: 91°–31° V: 79°–23° D: 138°–40°	H: 100°
Minimum Illumination	0.1 Lux (Color), 0.06 Lux (B/W) @ F1.4	0.05 Lux (Color), 0.01Lux (B/W) @ F1.4	0.1 Lux (Color), 0.01 Lux (B/W) @ F2.0
Wide Dynamic Range	Shutter WDR (>100 dB)	Digital	Shutter WDR (>120 dB)
Streaming Protocols	RTSP	RTSP	RTSP
Video Compression	MJPEG / H.264	H.264	MJPEG / H.264 (MPEG-4 Part 10/AVC)
Image Resolution	2048 x 1536 @ 30 frames per second Full HD 1080p / 720p / D1 / VGA / CIF	1920 x 1080 at 25 frames per second 1280 x 720 at 25 frames per second	2688 x 1512 at 15 frames per second 2304 x 1296 at 30 frames per second 1920 x 1080 at 30 frames per second in Shutter WDR mode SXGA / 720P / XGA / SVGA / D1 / VGA / CIF
Audio	Line in/out	—	Two-way, built-in mic and speaker
Interface	10/100/1000 Mbps	RJ45 Ethernet 10/100 Mbps	1 D1, 1 D0, RJ45 Ethernet 10/100 Mbps
Mounting	Wall, bracket included	Wall, ceiling, bracket included	Wall, ceiling, bracket included
Operation			
Pan / Tilt	—	—	—
Presets / Accuracy / Speed	—	—	—
IRLED / IRC	smart 30m / Yes	30m / Yes	5m / Yes
EIS / DNR	— / 3DNR	— / Yes	— / 3DNR
Dimensions			
Height x Width x Length (inches)	10.6 x 6.3 x 16	2.8 x 3.3 x 9.4	3.8 x 2.2 x 2.4
Height x Width x Length (mm)	263 x 161 x 406	70 x 85 x 240	97 x 56 x 61
Weight	4.42 lbs (2005 g)	1.25 lbs (569 g)	0.26 lbs (120 g)
Environment			
Power Source	PoE+ 802.3at / AC 24V ± 10%	PoE (802.3af)	PoE (802.3af) / DC 12V
Power Consumption (Average)	14.3 W max.	1.2 W (6 W IR ON)	4.6 W IR ON
Operating Temperature	40–140°F (-40–60°C)	14–122°F (-10–50°C)	14–122°F (-10–50°C)
Humidity	10–90% non-condensing	0–85% non-condensing	10–90% non-condensing
Compliance			
Regulatory and Standards	CE / FCC / RoHS / ONVIF / UL / IP67 / IK10	FCC Class B, CE Mark, weatherproof (IP66), ONVIF2.2	CE / FCC / RoHS

* For all outdoor installations, Fortinet suggests to avoid direct sunlight for better image quality and longer service life.

SPECIFICATIONS



	FORTICAMERA SD20	FORTIAPCAM 214B
Description	Ultra-WDR IP PTZ Camera	Access point and IP Video Security Camera
Format *	Speed Dome, Indoor/Outdoor	Fixed Dome, Indoor
Sensor Type	2 mega-pixel, 1/2.8" Sony Progressive CMOS	2 mega-pixel, 1/2.7" CMOS
Iris	F1.6 (W), F4.7 (T) P-Iris	F1.2 P-Iris
Optical Zoom	30x	3x
Digital Zoom	12x	–
Focal Length	f = 4.3 mm–129 mm (motorized, autofocus)	f = 3 mm–9 mm varifocal
View Angle	H: 65°–3.1°	H: 93°–31.7°
Minimum Illumination	0.5 Lux (Color), 0.095 Lux (B/W) @ F1.6	0.2 Lux (Color), 0.01Lux (B/W) @ F1.2
Wide Dynamic Range	Shutter WDR (>96 dB)	Digital
Streaming Protocols	RTSP	RTSP
Video Compression	H.264 (MPEG-4 Part 10/AVC)	H.264 / MJPEG / MPEG-4
Image Resolution	1920 x 1080 at 30 frames per second 1280 x 720 at 30 frames per second 720 x 480 at 30 frames per second	1920 x 1080 at 30 frames per second 1280 x 720 at 30 frames per second 720 x 480 at 30 frames per second
Audio	Line in/out	Two-way line in/line out, built-in mic
Interface	4 DI, 2 DO, RJ45 Ethernet 10/100 Mbps	1 DI, 1 DO, RJ45 Ethernet 10/100 Mbps, PIR 15 ft. (5 m)
Mounting	Wall, pole, ceiling (see "Optional Accessories")	Ceiling, 0–90°V
Operation		
Pan / Tilt	360° endless / -10°–190°	–
Presets / Accuracy / Speed	256 / 0.225° / 5°–400° / s	–
IRLED / IRC	– / Yes	15m / Yes
EIS / DNR	Yes / 3DNR	– / Yes
Dimensions		
Height x Width x Length (inches)	11.1 x 7.6 x 7.6 (with sunshield)	3.9 x 5.5 x 5.5
Height x Width x Length (mm)	282 x 192 x 192 (with sunshield)	100 x 140 x 140
Weight	5.07 lbs (2.30 kg)	1.5 lbs (0.68 kg)
Environment		
Power Source	802.3at PoE+ (60 W) / AC 24V ± 10%	PoE 802.3af, 12.5 W
Power Consumption (Average)	59 W (with heater)	5.5 W
Operating Temperature	-40–122°F (-40–50°C)	32–104°F (0–40°C)
Humidity	10–80% non-condensing	10–80% non-condensing
Compliance		
Regulatory and Standards	CE / FCC / RoHS / IP66 / ONVIF Profile S	FCC Part 15 Subpart B, Subpart C and Subpart E / IEC 62471
Access Point		
Number of Antennas	–	2 internal
Peak Antenna Gain	–	3 dBi for 2.4 GHz, 4 dBi for 5 GHz
Frequency of Radio	–	2.4 GHz b/g/n or 5 GHz a/n
Tx/Rx Streams (802.11n mode)	–	2x2 MIMO dual spatial stream – 300 Mbps/Radio
WME Multimedia Extensions	–	Yes (4 priority queues for voice, video, data and background traffic)
Simultaneous SSIDs	–	8
EAP Type(s)	–	EAP-TLS, EAP-TTLS/MSCHAPv2, EAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC EAP-SIM, EAP-AKA, EAP-FAST
User/Device Authentication	–	WPATM and WPA2TM with 802.1x or Preshared key, WEP and Web Captive Portal, MAC blacklist and whitelist
Maximum Tx Power	–	17 dBm (50 mW)
IEEE Specifications	–	802.11a, 802.11b, 802.11e, 802.11g, 802.11h, 802.11i, 802.11j, 802.11n, 802.11X, 802.3af
802.11n Features	–	20 Mhz and 40 Mhz High-Throughput (HT) Support Increased maximum frame transmission by incorporating A-MPDU and A-MSDU Packet Aggregation. Conserve power via Dynamic MIMO power save. Low-density parity check (LDPC) encoding. Maximum likelihood demodulation (MLD). Transmit beamforming (TxBF). Maximum Ratio Combining (MRC) for improved receiver performance.
Wireless Monitoring Capabilities	–	Background scan with client access on 2.4 and 5 GHz. Full-time scan as dedicated monitor option.

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ORDER INFORMATION

Product	SKU	Description
FortiCam FD40	FCM-FD40	4 mega-pixel fixed dome IP camera, IR/night vision, shutter WDR, indoor/outdoor, motorized zoom, AF.
FortiCam FD20	FCM-FD20	2 mega-pixel fixed dome IP camera, IR/night vision, sunshield, indoor/outdoor, varifocal.
FortiCam MD40	FCM-MD40	4 mega-pixel mini dome IP camera, IR/night vision, shutter WDR, indoor/outdoor, fixed lens.
FortiCam MD20	FCM-MD20	2 mega-pixel mini dome IP camera, IR/night vision, indoor/outdoor, fixed lens.
FortiCam OB30	FCM-OB30	3 mega-pixel outdoor bullet IP camera, IR/night vision, shutter WDR, motorized zoom, AF.
FortiCam CB20	FCM-CB20	2 mega-pixel compact bullet IP camera, IR/night vision, indoor/outdoor, varifocal.
FortiCam MB40	FCM-MB40	4 mega-pixel fixed mini box IP camera, IR/night vision, shutter WDR, indoor, fixed lens.
FortiCam SD20	FCM-SD20	2 mega-pixel speed dome PTZ IP camera, DIDO, 1x 10/100 port, 802.3af PoE, outdoor use, rated IP66.
FortiAPCam 214B	FCM-AP214B	2 mega-pixel indoor fixed dome IP camera with LED night vision, PIR, audio, DIDO. Includes built-in wireless AP — 1x GE RJ45 port, single radio (802.11 a/b/g/n, 2x2 MIMO), integrated mount, 802.3af PoE.
Optional Accessories		
FortiCam SD20 Mount	FCM-SD2-PDT	Standard pendant arm mount kit for FCM-SD20.
	FCM-SD2-ICT	In-ceiling mount kit for FCM-SD20.
	FCM-SD2-ST25	Straight tube 25cm mount kit for FCM-SD20.
	FCM-SD2-CPM	Corner plate mini mount kit for FCM-SD20. For use with FCM-SD2-PDT.
	FCM-SD2-TDM	Pole thin direct mount kit for FCM-SD20. For use with FCM-SD2-PDT.
	FCM-SD2-HCM	Hard ceiling mount kit for FCM-SD20.
FortiCam FD40 Mount	FCM-FD4-ICM	In-ceiling mount kit for FCM-FD40.
	FCM-FD4-WMB	Wall mount bracket indoor kit for FCM-FD40.
	FCM-FD4-PCP	Pendant cap kit for FCM-FD40. For use with FCM-SD2-PDT or FCM-SD2-ST25.
FortiCentral	FREE	Video Management System for Windows.
FortiRecorder Mobile iOS App.	FREE	Monitor FortiRecorder from your iPhone or iPad.
FortiRecorder Mobile Android App.	FREE	Monitor FortiRecorder from your Android device.



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