

FortiCamera™

FortiCamera CB50, FB50, FD40, FD50, MB40, MD50B, and SD20B

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 two-way audio, there's a FortiCam for 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.

Building blocks for scalable IP video solutions

FortiCameras are completely integrated with FortiRecorder and the powerful FortiCentral and mobile clients. All components complement each other to form a scalable video surveillance installation from small retail to large campus sites.

FortiCameras are your eyes into Fortinet video analytics solutions including face recognition and object detection.

Highlights

- Scheduled and manual recording
- Motion detection and continuous recordings
- Snapshot notifications and alerts
- SD card edge recording
- Camera live view and video playback
- Event monitor with timeline
- RADIUS, LDAP, SNMP, and remote data storage support for flexible network integration
- Centralized management, maintenance, and monitoring
- Web-based interface
- Powerful Windows client FortiCentral
- Mobile access on iOS and Android

Highlights

FortiCamera CB50

The FortiCamera CB50 offers great quality video in almost any situation. The wide angle 4x varifocal lens, which you can adjust from outside, captures crisp panoramic views, while also allowing you to zoom in for added detail. At night, the low-light sensor and advanced infrared LED technology deliver an extended 100-foot range. If required, the integrated mic captures audio. Mounting in any direction is a breeze with the sturdy cable-managed bracket. A no-frills approach and focus on core features make this model a price and performance winner.



FortiCamera FB50

For those who prefer simple camera mounting and the clearest image quality, the FortiCamera FB50 bullet style security camera is ideal for you. Its modern design with hidden LEDs, a sunshield, and SD card support up to 128 GB, is easily installed in a 90-degree position for corridors. Optical performance of the 4x motorized zoom and autofocus lens captures people and objects without loss of details. This camera delivers this excellent performance with 5 MP low light sensor and support for true shutter WDR. The offering is rounded off with ratings for IP66 and IK10 as well as a junction box accessory for EMT installations.

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 brightens 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.



Highlights

FortiCamera FD50

The FortiCamera FD50 is a high-performance fixed dome camera that combines style and technology. Detailed 5 MP images are generated by a 4x motorized zoom autofocus lens, and incorporated with latest H.265 compression technology. Strong low-light sensitivity combined with true shutter WDR make this camera work in almost any light situation. Integrated with 30m IR LEDs, the camera captures activities even in completely dark conditions. It easily handles rugged environments with IP66 weather protection, IK10 vandal rating, and a working temperature range of -30-60°C. The flexibility of 3-axis supports direct wall mounting and accessories help in EMT and dropped installations. The camera has a built-in microphone and supports SD cards up to 128 GB.



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° lens allows good overview in confined indoor environments. The built-in microphone supports audio. 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.

FortiCamera MD50B

Clean lines and compact size make the FortiCamera MD50B an unobtrusive choice, while the fixed dome format and full metal housing provide robustness against misalignment in public spaces. To save bandwidth and storage space, it streams crisp 5 MP images over the wide 101° viewing range in high efficiency H.265 encoding. For outdoor use, it has 60-foot IR LED illumination, IP66 protection, and an extended temperature range. Easily mounted and attractively priced, the FortiCamera MD50B is a great choice.



Highlights



FortiCamera SD20B

Any video surveillance project will benefit from the addition of professional-grade FortiCamera FCM-SD20B high-speed dome cameras in strategic positions. Its 360° 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 0.005 Lux night sensitivity generates great images even in dimly lit areas.

Specifications



	FORTICAMERA CB50	FORTICAMERA FB50	FORTICAMERA FD40	FORTICAMERA FD50
Description	Day/Night IP Video Security Camera	Professional Day/Night IP Video Security Camera	Ultra-WDR Day/Night IP Video Security Camera	Professional Day/Night IP Video Security Camera
Format *	Compact Bullet, Indoor/Outdoor	Full Bullet, Indoor/Outdoor, vandal	Fixed Dome, Indoor/Outdoor, vandal	Fixed Dome, Indoor/Outdoor, vandal
Sensor Type	5 mega-pixel, 1/2.8" low light CMOS	5 mega-pixel, 1/2.7" low light CMOS	4 mega-pixel, 1/3" Progressive CMOS	5 mega-pixel, 1/2.7" low light CMOS
Iris	F1.4 (W), F2.8 (T), fixed	F1.4 (W), F2.8 (T), fixed	F1.6, P-Iris	F1.4 (W), F2.8 (T), fixed
Optical Zoom	4x	4x	3x	4x
Digital Zoom	-	-	-	-
Focal Length	f = 2.8 mm–12 mm varifocal	2.8–12 mm (motorized, autofocus)	3–9 mm (motorized, autofocus)	2.8–12 mm (motorized, autofocus)
View Angle	H: 108°-32°, V: 57°-18°, D: 130°-37°	H:30°~90°, V:23°~65°, D:38°~115°	H: 109°-33°	H:30°~90°, V:23°~65°, D:38°~115°
Minimum Illumination	0.01Lux @ F1.2	0.035 Lux @ F1.4 (Color) 0.005 Lux @ F1.4 (B/W)	0.1 Lux (Color), 0.01 Lux (B/W) @ F1.2	0.035 Lux @ F1.4 (Color) 0.005 Lux @ F1.4 (B/W)
Wide Dynamic Range	Digital (>70dB)	Shutter WDR (>120dB)	Shutter WDR (>120 dB)	Shutter WDR (>120dB)
Streaming Protocols	RTSP	RTSP	RTSP	RTSP
Video Compression	H.264/H.265 (HEVC)	MJPEG/H.264/H.265 (HEVC)	MJPEG / H.264 (MPEG-4 Part 10/AVC) Baseline / Main / High Profile	MJPEG/H.264/H.265 (HEVC)
Image Resolution	2592x1944 at 30 frames per second 4MP, 3MP, 1920x1080 1280x720, 720x480, 640x480	5MP at 20 frames per second, 4:3, WDR off, or 4MP at 30 frames per second +D1 at 30 frames per second	2688 x 1512 at 30 frames per second Full HD 1080P/SXGA/ 720P/XGA/SVGA/D1 /VGA/CIF	5MP at 20 frames per second, 4:3, WDR off, or 4MP at 30 frames per second +D1 at 30 frames per second
Audio	One-way, built-in mic	Two-way, line in/out	Line in/out	Two-way, built-in mic, line out
Interface	RJ45 Ethernet 10/100 Mbps	RJ45 Ethernet 10/100 Mbps	1 DI, 1 DO, RJ45 Ethernet 10/100 Mbps	RJ45 Ethernet 10/100 Mbps
Mounting	Wall, ceiling, bracket included	Wall, pole, ceiling, 3/4" Conduit, junction box, bracket included	Wall, ceiling, 3/4" Conduit	Wall, pole, ceiling, 3-axis, 3/4" conduit, junction box
Operation				
Pan / Tilt	-	-	-	-
Presets / Accuracy / Speed	-	-	-	-
IRLED / IRC	30m / yes	30m / yes	40m / Yes	30m / yes
EIS / DNR	- / 3DNR	- / 3DNR	- / 3DNR	- / 3DNR
Dimensions				
Height x Width x Length (inches)	3.2 x 3.2 x 10.7	8.5 x 3.3 x 3.3	4.6 x 5.2 x 5.2	4.08 x 5.3 x 5.3
Height x Width x Length (mm)	81 x 81 x 272	215 x 85 x 85	117 x 134 x 134	104 x 133 x 133
Weight	2.31 (1050g)	1.63 (738g)	1.69 lbs (770 g)	1.80 (819g)
Environment				
Power Source	PoE (802.3af)	PoE (802.3af) class 0	PoE (802.3af) / DC 10–48V / AC 24V	PoE (802.3af) class 0
Power Consumption (Average)	10W max (with IR on)	9W, 12.95W max (with IR on)	Cold start 8.5 W > Operation 13.34 W max with heater	9W, 12.95W max (with IR on)
Operating Temperature	-22–140°F (-30–60°C)	-22–144°F (-30–60°C) working -14–144°F (-10–60°C) starting	-67–131°F (-55–55°C)	-22–144°F (-30–60°C) working -14–144°F (-10–60°C) starting
Humidity	10–90% non-condensing	<90% non-condensing	10–90% non-condensing	<90% non-condensing
Compliance				
Regulatory and Standards	FCC Class B / ICES / CE / IP66 / ONVIF Profile S	FCC Class A / ICES / CE / IP66 / IK10 / ONVIF 18.12 profile S and G	CE / FCC / RoHS / IP66 / IK10 / ONVIF Profile S	FCC Class A / ICES / CE / IP66 / IK10 / ONVIF 18.12 profile S and G

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

Specifications



	FORTICAMERA MB40	FORTICAMERA MD50B	FORTICAMERA SD20B
Description	Day/Night IP Video Security Camera	Day/Night IP Video Security Camera	Ultra-WDR IP PTZ Camera
Format *	Mini Box, Indoor	Mini Dome, Indoor/Outdoor	Speed Dome, Indoor/Outdoor
Sensor Type	4 mega-pixel, 1/3" Progressive CMOS	5 mega-pixel, 1/2.8" low light CMOS	2 mega-pixel, 1/2.8" Sony Progressive CMOS
Iris	F2.0, fixed	F2.0, fixed	F1.6 (W), F4.7 (T) P-Iris
Optical Zoom	-	-	30x
Digital Zoom	-	-	10x
Focal Length	f = 2.8 mm	f=2.8 mm	f = 4.3 mm–129 mm (motorized, autofocus)
View Angle	H: 100°	H: 101°, V: 54°, D: 119°	H: 65°–2°
Minimum Illumination	0.1 Lux (Color), 0.01 Lux (B/W) @ F2.0	0.01Lux @ F1.2	0.02 Lux (Color), 0.005 Lux (B/W) @ F1.6
Wide Dynamic Range	Shutter WDR (>120 dB)	Digital (>70dB)	Shutter WDR (>96 dB)
Streaming Protocols	RTSP	RTSP	RTSP
Video Compression	MJPEG / H.264 (MPEG-4 Part 10/AVC)	H.264/H.265 (HEVC)	H.265 / H.264 / MJPEG
Image Resolution	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	2590x1944 at 30 frames per second 4MP, 3MP, 1920x1080 1280x720, 720x480, 640x480	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	Two-way, built-in mic and speaker	No	Line in/out
Interface	1 DI, 1 DO, RJ45 Ethernet 10/100 Mbps	RJ45 Ethernet 10/100 Mbps	4 DI, 2 DO, RJ45 Ethernet 10/100 Mbps
Mounting	Wall, ceiling, bracket included	Wall, ceiling, 3-axis	Wall, pole, ceiling (see "Optional Accessories")
Operation			
Pan / Tilt	-	-	360° endless / -10°–100°
Presets / Accuracy / Speed	-	-	256 / 0.056° / 5°–400° / s
IRLED / IRC	5m / Yes	20m / yes	- / Yes
EIS / DNR	- / 3DNR	- / 3DNR	Yes / 3DNR
Dimensions			
Height x Width x Length (inches)	3.8 x 2.2 x 2.4	3.5 x 4.4 x 4.4	11.0 x 8.26 x 8.26 (with sunshield)
Height x Width x Length (mm)	97 x 56 x 61	90 x 111 x 111	279 x 210 x 210 (with sunshield)
Weight	0.26 lbs (120 g)	1.13 (519g)	6.4 lbs (2.9 kg)
Environment			
Power Source	PoE (802.3af) / DC 12V	PoE (802.3af)	802.3af PoE+ (class4) / AC 24V ±10%
Power Consumption (Average)	4.6 W IR ON	5W max (with IR on)	25.4 W (with heater)
Operating Temperature	14–122°F (-10–50°C)	-22–140°F (-30–60°C)	-40–122°F (-40–50°C)
Humidity	10–90% non-condensing	10–90% non-condensing	10–90% non-condensing
Compliance			
Regulatory and Standards	CE / FCC / RoHS	FCC Class B / ICES / CE / IP66 / ONVIF Profile S	CE / FCC / RoHS / IP66 / IK10 / ONVIF Profile S, G

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

Order Information

Product	SKU	Description
FortiCam CB50	FCM-CB50	5 mega-pixel compact bullet IP camera, IR/night vision indoor/outdoor, varifocal lens, rated IP66
FortiCam FB50	FCM-FB50	5 mega-pixel bullet IP camera, 30m IR LED, 2.8 - 12mm motorized lens, 1x 10/100 port with 802.3af PoE, audio, shutter WDR, vandal proof, indoor/outdoor, rated IP66
FortiCam FD40	FCM-FD40	4 mega-pixel fixed dome IP camera, IR/night vision, shutter WDR, indoor/outdoor, motorized zoom, AF
FortiCam FD50	FCM-FD50	5 mega-pixel fixed dome IP camera, 30m IR LED, 2.8 - 12mm motorized lens, 1x 10/100 port with 802.3af PoE, audio, shutter WDR, vandal proof, indoor/outdoor, rated IP66
FortiCam MB40	FCM-MB40	4 mega-pixel fixed mini box IP camera, IR/night vision, shutter WDR, indoor, fixed lens
FortiCam MD50B	FCM-MD50B	5 mega-pixel fixed mini dome IP camera, IR/night vision indoor/outdoor, fixed lens, rated IP66
FortiCam SD20B	FCM-SD20B	2 mega-pixel speed dome PTZ IP camera, DIDO, 1x 10/100 port, 802.3af PoE, outdoor use, rated IP66
Optional Accessories		
FortiCam SD20B Mount	FCM-SD2-PDT	Standard pendant arm mount kit for FCM-SD20B
	FCM-SD2-ICT	In-ceiling mount kit for FCM-SD20B
	FCM-SD2-ST25	Straight tube 25cm mount kit for FCM-SD20B
	FCM-SD2-CPM	Corner plate mini mount kit for FCM-SD20B. For use with FCM-SD2-PDT
	FCM-SD2-TDM	Pole thin direct mount kit for FCM-SD20B. For use with FCM-SD2-PDT
	FCM-SD2-HCM	Hard ceiling mount kit for FCM-SD20B
FortiCam FD50 Mount	FCM-FD5-PCP-8	Pendant cap kit for FCM-FD50 (for use with FCM-FD5-PDT) (set of 8)
	FCM-FD5-PDT-8	Pendant arm kit for FCM-FD50 (set of 8)
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
FortiCam FB50 Mount	FCM-FB5-JBX-4	Junction box kit for FCM-FB50 or -FD50 (set of 4)
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