

# FortiCamera™

FortiCamera CB50, FB50, FD50, PD50, 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.

## AI-enabled video management software (VMS)

FortiCentral manages FortiCameras to be your eyes into Fortinet video analytics solutions including facial recognition and object detection. Fortinet's free and comprehensive VMS gives you centralized control and optimized visibility all in one single place.

## 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, and 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 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 PD50

This revolutionary PD50 camera makes installation literally the touch of a button. This PTZ compact dome camera delivers quality and style with smart motorized zoom and focus adjustment. You can configure and move the camera into the desired direction remotely without any hassle of tweaking angles on site. The PD50 IP camera is designed to withstand a wide range of temperature and weather conditions with 4kV surge protection that makes it ideal for your indoor and outdoor protection. This modern security camera records high-resolution 5MP video, streamed in efficient H.265 encoding. Featuring integrated 360-degree IR illumination and a microphone for audio, the FCM-PD50 is a universally deployable powerhouse with no-headache installation.



## 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 30 m 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 which 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 camera 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. 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.

### 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 using ultra-fine adjustment and 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 PD50	FORTICAMERA FD50
<b>Description</b>	Day/Night IP Video Security Camera	Professional Day/Night IP Video Security Camera	Day/Night IP Video Security Camera	Professional Day/Night IP Video Security Camera
<b>Format *</b>	Compact Bullet, Indoor/Outdoor	Full Bullet, Indoor/Outdoor, vandal	Motorized PTZ Mini Dome	Fixed Dome, Indoor/Outdoor, vandal
<b>Sensor Type</b>	5 mega-pixel, 1/2.8" low light CMOS	5 mega-pixel, 1/2.7" low light CMOS	5 mega-pixel, 1/2.8" low light CMOS	5 mega-pixel, 1/2.7" low light CMOS
<b>Iris</b>	F1.4 (W), F2.8 (T), fixed	F1.4 (W), F2.8 (T), fixed	F1.6, fixed	F1.4 (W), F2.8 (T), fixed
<b>Optical Zoom</b>	4x	4x	3x	4x
<b>Digital Zoom</b>	-	-	-	-
<b>Focal Length</b>	f = 2.8 mm–12 mm varifocal	2.8–12 mm (motorized, autofocus)	2.8-8 mm (motorized, autofocus)	2.8–12 mm (motorized, autofocus)
<b>View Angle</b>	H: 108°-32°, V: 57°-18°, D: 130°-37°	H:30°~90°, V:23°~65°, D:38°~115°	H:119°~56°, V:61°~31°, D:148°~65°	H:30°~90°, V:23°~65°, D:38°~115°
<b>Minimum Illumination</b>	0.01Lux @ F1.2	0.035 Lux @ F1.4 (Color) 0.005 Lux @ F1.4 (B/W)	0.01 Lux (Color) @ F1.2	0.035 Lux @ F1.4 (Color) 0.005 Lux @ F1.4 (B/W)
<b>Wide Dynamic Range</b>	Digital (>70dB)	Shutter WDR (>120dB)	Digital (>70 dB)	Shutter WDR (>120dB)
<b>Streaming Protocols</b>	RTSP	RTSP	RTSP	RTSP
<b>Video Compression</b>	H.264/H.265 (HEVC)	MJPEG/H.264/H.265 (HEVC)	H.264/H.265 (HEVC)	MJPEG/H.264/H.265 (HEVC)
<b>Image Resolution</b>	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	2592x1944 at 15 frames per second 4MP, 3MP at 25 frames per second 1920x1080 at 30 frames per second 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
<b>Audio</b>	One-way, built-in mic	Two-way, line in/out	One-way, built-in mic	Two-way, built-in mic, line out
<b>Interface</b>	RJ45 Ethernet 10/100 Mbps	RJ45 Ethernet 10/100 Mbps	RJ45 Ethernet 10/100 Mbps	RJ45 Ethernet 10/100 Mbps
<b>Mounting</b>	Wall, ceiling, bracket included	Wall, pole, ceiling, 3/4" Conduit, junction box, bracket included	Ceiling, wall with optional accessory	Wall, pole, ceiling, 3-axis, 3/4" conduit, junction box
<b>Operation</b>				
<b>Pan / Tilt</b>	-	-	For installation 350° / 0°-90°	-
<b>Presets / Accuracy / Speed</b>	-	-	1	-
<b>IRLED / IRC</b>	30m / yes	30m / yes	20m+ / Yes	30m / yes
<b>EIS / DNR</b>	- / 3DNR	- / 3DNR	- / 3DNR	- / 3DNR
<b>Dimensions</b>				
<b>Height x Width x Length (inches)</b>	3.2 x 3.2 x 10.7	8.5 x 3.3 x 3.3	2.9 x 4.2 x 4.2	4.08 x 5.3 x 5.3
<b>Height x Width x Length (mm)</b>	81 x 81 x 272	215 x 85 x 85	74 x 107 x 107	104 x 133 x 133
<b>Weight</b>	2.31 lbs (1050g)	1.63 lbs (738g)	0.92 lbs (418g)	1.80 lbs (819g)
<b>Environment</b>				
<b>Power Source</b>	PoE (802.3af)	PoE (802.3af) class 0	PoE (802.3af)	PoE (802.3af) class 0
<b>Power Consumption (Average)</b>	10W max (with IR on)	9W, 12.95W max (with IR on)	10W max (with IR on)	9W, 12.95W max (with IR on)
<b>Operating Temperature</b>	-22~140°F (-30~60°C)	-22~144°F (-30~60°C) working -14~144°F (-10~60°C) starting	-4~140°F (-20~60°C)	-22~144°F (-30~60°C) working -14~144°F (-10~60°C) starting
<b>Humidity</b>	10~90% non-condensing	<90% non-condensing	10~90% non-condensing	<90% non-condensing
<b>Compliance</b>				
<b>Regulatory and Standards</b>	FCC Class B / ICES / CE / IP66 / ONVIF Profile S	FCC Class A / ICES / CE / IP66 / IK10 / ONVIF 18.12 Profile S and G	FCC Class B / ICES / CE / CB / IP66 / ONVIF Profile S 17.06	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
<b>Description</b>	Day/Night IP Video Security Camera	Day/Night IP Video Security Camera	Ultra-WDR IP PTZ Camera
<b>Format *</b>	Mini Box, Indoor	Mini Dome, Indoor/Outdoor	Speed Dome, Indoor/Outdoor
<b>Sensor Type</b>	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
<b>Iris</b>	F2.0, fixed	F2.0, fixed	F1.6 (W), F4.7 (T) P-Iris
<b>Optical Zoom</b>	-	-	30x
<b>Digital Zoom</b>	-	-	10x
<b>Focal Length</b>	f = 2.8 mm	f=2.8 mm	f = 4.3 mm–129 mm (motorized, autofocus)
<b>View Angle</b>	H: 100°	H: 101°, V: 54°, D: 119°	H: 65°–2°
<b>Minimum Illumination</b>	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
<b>Wide Dynamic Range</b>	Shutter WDR (>120 dB)	Digital (>70dB)	Shutter WDR (>96 dB)
<b>Streaming Protocols</b>	RTSP	RTSP	RTSP
<b>Video Compression</b>	MJPEG / H.264 (MPEG-4 Part 10/AVC)	H.264/H.265 (HEVC)	H.265 / H.264 / MJPEG
<b>Image Resolution</b>	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
<b>Audio</b>	Two-way, built-in mic and speaker	No	Line in/out
<b>Interface</b>	1 DI, 1 DO, RJ45 Ethernet 10/100 Mbps	RJ45 Ethernet 10/100 Mbps	4 DI, 2 DO, RJ45 Ethernet 10/100 Mbps
<b>Mounting</b>	Wall, ceiling, bracket included	Wall, ceiling, 3-axis	Wall, pole, ceiling (see "Optional Accessories")
<b>Operation</b>			
<b>Pan / Tilt</b>	-	-	360° endless / -10°–100°
<b>Presets / Accuracy / Speed</b>	-	-	256 / 0.056° / 5°–400° / s
<b>IRLED / IRC</b>	5m / Yes	20m / yes	- / Yes
<b>EIS / DNR</b>	- / 3DNR	- / 3DNR	Yes / 3DNR
<b>Dimensions</b>			
<b>Height x Width x Length (inches)</b>	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)
<b>Height x Width x Length (mm)</b>	97 x 56 x 61	90 x 111 x 111	279 x 210 x 210 (with sunshield)
<b>Weight</b>	0.26 lbs (120 g)	1.13 (519g)	6.4 lbs (2.9 kg)
<b>Environment</b>			
<b>Power Source</b>	PoE (802.3af) / DC 12V	PoE (802.3af)	802.3af PoE+ (class4) / AC 24V ±10%
<b>Power Consumption (Average)</b>	4.6 W IR ON	5W max (with IR on)	25.4 W (with heater)
<b>Operating Temperature</b>	14–122°F (-10–50°C)	-22–140°F (-30–60°C)	-40–122°F (-40–50°C)
<b>Humidity</b>	10–90% non-condensing	10–90% non-condensing	10–90% non-condensing
<b>Compliance</b>			
<b>Regulatory and Standards</b>	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
	FC-10-FCCB5-247-02-DD	24x7 FortiCare Contract
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
	FC-10-FCFB5-247-02-DD	24x7 FortiCare Contract
FortiCam PD50	FCM-PD50	5 mega-pixel Mini PTZ dome IP Camera, 20m IR LED, 2.8-8mm motorized lens, 1x 10/100 port with 802.3af PoE, audio, indoor/outdoor, rated IP66
	FC-10-FCPD5-247-02-DD	24x7 FortiCare Contract
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
	FC-10-FCFDS-247-02-DD	24x7 FortiCare Contract
FortiCam MB40	FCM-MB40	4 mega-pixel fixed mini box IP camera, IR/night vision, shutter WDR, indoor, fixed lens.
	FC-10-FCMB4-247-02-DD	24x7 FortiCare Contract
FortiCam MD50B	FCM-MD50B	5 mega-pixel fixed mini dome IP camera, IR/night vision indoor/outdoor, fixed lens, rated IP66
	FC-10-FCMD5B-247-02-DD	24x7 FortiCare Contract
FortiCam SD20B*	FCM-SD20B	2 mega-pixel speed dome PTZ IP camera, D1D0, 1x 10/100 port, 802.3af PoE, outdoor use, rated IP66
	FC-10-FCS20B-247-02-DD	24x7 FortiCare Contract
<b>Optional Accessories</b>		
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 FB50 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 PD50 Mount	FCM-PD50-WMT-8	Wall Mount Bracket Kit for FCM-PD50 (set of 8)
FortiCam FD50 Mount	FCM-FB5-JBX-4	Junction box kit for FCM-FB50 or -FD50 (set of 4)
<b>Free Applications**</b>		
FortiCentral	DOWNLOAD	Video Management System for Windows.
FortiRecorder Mobile iOS App.	DOWNLOAD	Monitor FortiRecorder from your iPhone or iPad.
FortiRecorder Mobile Android App.	DOWNLOAD	Monitor FortiRecorder from your Android device.

\* Availability of FortiCamera models might vary by country; please check with your local Fortinet sales or partners for details.

\*\*Free Downloads available at <https://www.fortinet.com/support/product-downloads>

## FortiCare Services

FortiCare Services are tailored to meet our customers' deployment and operational needs, no matter the company size or location. Our experts provide accelerated implementation, reliable support, and proactive care to help our customers achieve business continuity with maximum protection. Visit <https://www.fortinet.com/support/support-services/forticare-support> for more information.



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