

DATA SHEET**FortiCamera™**

Available in:



Appliance

Smart Security Cameras for Your Business

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 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° 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 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 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.



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 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-feet IR LED illumination, IP66 protection, and an extended temperature range. Easily mounted and attractively priced, the FortiCamera MD50B is a great choice.



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 5 MP video, streamed in efficient H.265 encoding. Featuring integrated 360° IR illumination and a microphone for audio, the FCM-PD50 is a universally deployable powerhouse with no-headache installation.



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 >96 dB) masters tricky light situations while 0.005 Lux night sensitivity generates great images even in dimly lit areas.

FortiCamera CD51 and CD55

FortiCamera CD5x series offers crisp image quality and advanced features in a compact style. These premium dome cameras are designed to simplify deployment and management. Its Bluetooth connectivity allows easy network configuration and adjusting the camera view directly from your smartphone. Built-in Wi-Fi helps with those hard-to-reach locations for broader security coverage within your premises.

These security cameras deliver high resolution 5 MP video streamed in efficient H.265 encoding, dimmable 20m+ IR illumination, powerful low light performance, and a built-in microphone. Robust IP67 weather and IK10 vandal rating combined with built-in heater for extended temperature range make these cameras perfectly suited for challenging conditions.

FortiCamera CD51 is a fixed lens model with convenient 95° view angle, while FortiCamera CD55 offers a motorized 4x zoom lens with autofocus to capture every detail in high quality over a wider distance range. A wide range of accessories are available to give you hassle free mounting for indoor and outdoor use.



SPECIFICATIONS



	FORTICAMERA FB50	FORTICAMERA CB50	FORTICAMERA MB40
Description	Professional Day/Night IP Video Security Camera	Day/Night IP Video Security Camera	Day/Night IP Video Security Camera
Format *	Full Bullet, Indoor/Outdoor, Vandal	Compact Bullet, Indoor/Outdoor	Mini Box, Indoor
Sensor Type	5 mega-pixel, 1/2.7" low light CMOS	5 mega-pixel, 1/2.8" low light CMOS	4 mega-pixel, 1/3" Progressive CMOS
Iris	F1.4 (W), F2.8 (T), fixed	F1.4 (W), F2.8 (T), fixed	F2.0, fixed
Optical Zoom	4x	4x	—
Digital Zoom	—	—	—
Focal Length	2.8–12 mm (motorized, autofocus)	2.8 mm–12 mm varifocal	2.8 mm
View Angle	H:30°~90°, V:23°~65°, D:38°~115°	H: 108°~32°, V: 57°~18°, D: 130°~37°	H: 100°
Minimum Illumination	0.035 Lux @ F1.4 (Color) 0.005 Lux @ F1.4 (B/W)	0.01Lux @ F1.2	0.1 Lux (Color), 0.01 Lux (B/W) @ F2.0
Wide Dynamic Range	Shutter WDR (>120dB)	Digital (>70dB)	Shutter WDR (>120 dB)
Streaming Protocols	RTSP	RTSP	RTSP
Video Compression	MJPEG/H.264/H.265 (HEVC)	H.264/H.265 (HEVC)	MJPEG / H.264 (MPEG-4 Part 10/AVC)
Image Resolution	5MP at 20 frames per second, 4:3, WDR off, or 4MP at 30 frames per second +D1 at 30 frames per second	2592×1944 at 30 frames per second 4MP, 3MP, 1920×1080 1280×720, 720×480, 640×480	2688 × 1512 at 15 frames per second 2304 × 1296 at 30 frames per second 1920 × 1080 at 30 frames per second in Shutter WDR mode SXGA / 720P / XGA / SVGA / D1 / VGA / CIF
Audio	Two-way, line in/out	One-way, built-in mic	Two-way, built-in mic and speaker
Interface	RJ45 Ethernet 10/100 Mbps	RJ45 Ethernet 10/100 Mbps	1 DI, 1 DO, RJ45 Ethernet 10/100 Mbps
Mounting	Wall, pole, ceiling, 3/4" conduit, junction box, bracket included	Wall, ceiling, bracket included	Wall, ceiling, bracket included
Operation			
Pan / Tilt	—	—	—
Presets / Accuracy / Speed	—	—	—
IRLED / IRC	30m / yes	30m / yes	5m / yes
EIS / DNR	— / 3DNR	— / 3DNR	— / 3DNR
Dimensions			
Height x Width x Length (inches)	8.5 × 3.3 × 3.3	3.2 × 3.2 × 10.7	3.8 × 2.2 × 2.4
Height x Width x Length (mm)	215 × 85 × 85	81 × 81 × 272	97 × 56 × 61
Weight	1.63 lbs (738g)	2.31 lbs (1050g)	0.26 lbs (120 g)
Environment			
Power Source	PoE (802.3af) class 0	PoE (802.3af)	PoE (802.3af) / DC 12V
Power Consumption (Average)	9W, 12.95W max (with IR on)	10W max (with IR on)	4.6 W IR ON
Operating Temperature	-22~144°F (-30~60°C) working -14~144°F (-10~60°C) starting	-22~140°F (-30~60°C)	14~122°F (-10~50°C)
Humidity	<90% non-condensing	10~90% non-condensing	10~90% non-condensing
Compliance			
Regulatory and Standards	FCC Class A / ICES / CE / IP66 / IK10 / ONVIF 18.12 Profile S and G	FCC Class B / ICES / CE / IP66 / ONVIF Profile S	CE / FCC / RoHS

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



SPECIFICATIONS



	FORTICAMERA FD50	FORTICAMERA MD50B	FORTICAMERA PD50	FORTICAMERA SD20B
Description	Professional Day/Night IP Video Security Camera	Day/Night IP Video Security Camera	Day/Night IP Video Security Camera	Ultra-WDR IP PTZ Camera
Format *	Fixed Dome, Indoor/Outdoor, Vandal	Mini Dome, Indoor/Outdoor	Motorized PTZ Mini Dome	Speed Dome, Indoor/Outdoor
Sensor Type	5 mega-pixel, 1/2.7" low light CMOS	5 mega-pixel, 1/2.8" low light CMOS	5 mega-pixel, 1/2.8" low light CMOS	2 mega-pixel, 1/2.8" Sony Progressive CMOS
Iris	F1.4 (W), F2.8 (T), fixed	F2.0, fixed	F1.6, fixed	F1.6 (W), F4.7 (T) P-Iris
Optical Zoom	4x	—	3x	30x
Digital Zoom	—	—	—	10x
Focal Length	2.8–12 mm (motorized, autofocus)	2.8 mm	2.8–8 mm (motorized, autofocus)	4.3 mm–129 mm (motorized, autofocus)
View Angle	H:30°~90°, V:23°~65°, D:38°~115°	H: 101°, V: 54°, D: 119°	H:119°~56°, V:61°~31°, D:148°~65°	H: 65°~2°
Minimum Illumination	0.035 Lux @ F1.4 (Color) 0.005 Lux @ F1.4 (B/W)	0.01Lux @ F1.2	0.01 Lux (Color) @ F1.2	0.02 Lux (Color), 0.005 Lux (B/W) @ F1.6
Wide Dynamic Range	Shutter WDR (>120dB)	Digital (>70dB)	Digital (>70 dB)	Shutter WDR (>96 dB)
Streaming Protocols	RTSP	RTSP	RTSP	RTSP
Video Compression	MJPEG/H.264/H.265 (HEVC)	H.264/H.265 (HEVC)	H.264/H.265 (HEVC)	H.265 / H.264 / MJPEG
Image Resolution	5MP at 20 frames per second, 4:3, WDR off, or 4MP at 30 frames per second +D1 at 30 frames per second	2590×1944 at 30 frames per second 4MP, 3MP, 1920×1080 1280×720, 720×480, 640×480	2592×1944 at 15 frames per second 4MP, 3MP at 25 frames per second 1920×1080 at 30 frames per second 1280×720, 720×480, 640×480	1920×1080 at 30 frames per second 1280×720 at 30 frames per second 720×480 at 30 frames per second
Audio	Two-way, built-in mic, line out	No	One-way, built-in mic	Line in/out
Interface	RJ45 Ethernet 10/100 Mbps	RJ45 Ethernet 10/100 Mbps	RJ45 Ethernet 10/100 Mbps	4 DI, 2 DO, RJ45 Ethernet 10/100 Mbps
Mounting	Wall, pole, ceiling, 3-axis, 3/4" conduit, junction box	Wall, ceiling, 3-axis	Ceiling, wall with optional accessory	Wall, pole, ceiling (see "Optional Accessories")
Operation				
Pan / Tilt	—	—	For installation 350° / 0°-90°	360° endless / -10°-100°
Presets / Accuracy / Speed	—	—	1	256 / 0.056° / 5°-400° /s
IRLED / IRC	30m / yes	20m / yes	20m+ / yes	— / yes
EIS / DNR	— / 3DNR	— / 3DNR	— / 3DNR	yes / 3DNR
Dimensions				
Height x Width x Length (inches)	4.08 × 5.3 × 5.3	3.5 × 4.4 × 4.4	2.9 × 4.2 × 4.2	11.0 × 8.26 × 8.26 (with sunshield)
Height x Width x Length (mm)	104 × 133 × 133	90 × 111 × 111	74 × 107 × 107	279 × 210 × 210 (with sunshield)
Weight	1.80 lbs (819g)	1.13 (519g)	0.92 lbs (418g)	6.4 lbs (2.9 kg)
Environment				
Power Source	PoE (802.3af) class 0	PoE (802.3af)	PoE (802.3af)	802.3at PoE+ (class4) / AC 24V ±10%
Power Consumption (Average)	9W, 12.95W max (with IR on)	5W max (with IR on)	10W max (with IR on)	25.4 W (with heater)
Operating Temperature	-22~144°F (-30~60°C) working -14~144°F (-10~60°C) starting	-22~140°F (-30~60°C)	-4~140°F (-20~60°C)	-40~122°F (-40~50°C)
Humidity	<90% non-condensing	10~90% non-condensing	10~90% non-condensing	10~90% non-condensing
Compliance				
Regulatory and Standards	FCC Class A / ICES / CE / IP66 / IK10 / ONVIF 18.12 profile S and G	FCC Class B / ICES / CE / IP66 / ONVIF Profile S	FCC Class B / ICES / CE / CB / IP66 / ONVIF Profile S 17.06	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.



SPECIFICATIONS



FORTICAMERA CD51		FORTICAMERA CD55	
Description	Premium Day/Night IP Video Security Camera	Description	Premium Day/Night IP Video Security Camera
Format *	Fixed Dome, Indoor/Outdoor, vandal	Format *	Fixed Dome, Indoor/Outdoor, vandal
Sensor Type	5 mega-pixel, 1/2.8" low light CMOS	Sensor Type	5 mega-pixel, 1/2.8" low light CMOS
Iris	F2.0/fixed	Iris	F1.6 (W), F3.3 (T), DC-Iris
Optical Zoom	—	Optical Zoom	4x
Digital Zoom	—	Digital Zoom	—
Focal Length	2.8 mm	Focal Length	2.7–13 mm (motorized, autofocus)
View Angle	H:95° V:72° D:118°	View Angle	H:29°~99° V:22°~71° D:35°~132°
Minimum Illumination	0.05 Lux (Color) @ F2, 0.01 Lux (B/W) @ F2	Minimum Illumination	0.03 Lux (Color) @ F1.6, 0.01 Lux (B/W) @ F1.6
Wide Dynamic Range	HDR (>80dB)	Wide Dynamic Range	HDR (>80dB)
Streaming Protocols	RTSP	Streaming Protocols	RTSP
Video Compression	H.264/H.265 (HEVC)	Video Compression	H.264/H.265 (HEVC)
Image Resolution	5MP at 30 frames per second 4MP, 3MP, 1080p, 720p 1024×768, 640×480, 320×240	Image Resolution	5MP at 30 frames per second 4MP, 3MP, 1080p, 720p 1024×768, 640×480, 320×240
Audio	one-way, built-in mic	Audio	one-way, built-in mic
Interface	RJ45 Ethernet 10/100 Mbps	Interface	RJ45 Ethernet 10/100 Mbps
Mounting	Wall, ceiling, tile, 3-axis, 3/4" conduit, junction box (see "Optional Accessories")	Mounting	Wall, ceiling, tile, 3-axis, 3/4" conduit, junction box (see "Optional Accessories")
Operation			
Pan / Tilt	—	Pan / Tilt	—
Presets / Accuracy / Speed	—	Presets / Accuracy / Speed	—
IRLED / IRC	20m+ (dimnable) / yes	IRLED / IRC	20m+ (dimnable) / yes
EIS / DNR	— / 3DNR	EIS / DNR	— / 3DNR
Dimensions			
Height x Width x Length (inches)	3.8 × 4.7 × 4.7	Height x Width x Length (inches)	3.8 × 4.7 × 4.7
Height x Width x Length (mm)	97 × 120 × 120	Height x Width x Length (mm)	97 × 120 × 120
Weight	1.09 lb (498g)	Weight	1.16 lb (527g)
Environment			
Power Source	PoE (802.3af) class 3	Power Source	PoE (802.3af) class 3
Power Consumption (Average)	< 12.95W	Power Consumption (Average)	< 12.95W
Operating Temperature	40–122°F (-40–50°C)	Operating Temperature	40–122°F (-40–50°C)
Humidity	5–90% non-condensing	Humidity	5–90% non-condensing
Compliance			
Regulatory and Standards	FCC Class B / ICES / CE / CB / IP67 / IK10	Regulatory and Standards	FCC Class B / ICES / CE / CB / IP67 / IK10
Wifi/Bluetooth			
Number of Antennas	1 internal	Number of Antennas	1 internal
Peak Antenna Gain	3.4 dBi for 2.4 GHz, 4.1 dBi for 5 GHz	Peak Antenna Gain	3.4 dBi for 2.4 GHz, 4.1 dBi for 5 GHz
Frequency of Radio 1	2.4 GHz b/g/n/ac or 5 GHz a/n/ac	Frequency of Radio 1	2.4 GHz b/g/n/ac or 5 GHz a/n/ac

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

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.



ORDER INFORMATION

Product	SKU	Description
FortiCam FB50	FCM-FB50	5 mega-pixel bullet IP camera, 30m IR LED, 2.8-12mm motorized lens, 1× 10/100 port with 802.3af PoE, audio, shutter WDR, vandal proof, indoor/outdoor, rated IP66
	FC-10-FCFB5-247-02-DD	24×7 FortiCare Contract
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	24×7 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	24×7 FortiCare Contract
FortiCam FD50	FCM-FD50	5 mega-pixel fixed dome IP camera, 30m IR LED, 2.8-12mm motorized lens, 1× 10/100 port with 802.3af PoE, audio, shutter WDR, vandal proof, indoor/outdoor, rated IP66
	FC-10-FCFDS-247-02-DD	24×7 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	24×7 FortiCare Contract
FortiCam PD50	FCM-PD50	5 mega-pixel Mini PTZ dome IP Camera, 20m IR LED, 2.8-8mm motorized lens, 1× 10/100 port with 802.3af PoE, audio, indoor/outdoor, rated IP66
	FC-10-FCPD5-247-02-DD	24×7 FortiCare Contract
FortiCam SD20B*	FCM-SD20B	2 mega-pixel speed dome PTZ IP camera, DIDO, 1× 10/100 port, 802.3at PoE, outdoor use, rated IP66
	FC-10-FCSD2B-247-02-DD	24×7 FortiCare Contract
FortiCam CD51	FCM-CD51	5 Megapixel Fixed Dome IP Camera, 20m IR LED, 2.8mm fixed lens, 1× 10/100 port with 802.3af PoE, Audio, HDR, Wifi, BLE, Vandal proof, Indoor/Outdoor Use, Rated IP67
	FC-10-FCD51-247-02-DD	24×7 FortiCare Contract
FortiCam CD55	FCM-CD55	5 Megapixel Fixed Dome IP Camera, 20m IR LED, 2.7-13mm motorized lens, 1× 10/100 port with 802.3af PoE, Audio, HDR, Wifi, BLE, Vandal proof, Indoor/Outdoor Use, Rated IP67
	FC-10-FCD55-247-02-DD	24×7 FortiCare Contract
Optional Accessories		
FortiCam FB50 Mount	FCM-FB5-JBX-4	Junction box kit for FCM-FB50 or -FD50 (set of 4)
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 PD50 Mount	FCM-PD50-WMT-8	Wall Mount Bracket Kit for FCM-PD50 (set of 8)
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 CD51/CD55 Mount	FCM-CD5-WMT-8	Wall Mount Kit for FCM-CD51/CD55 (set of 8)
	FCM-CD5-PCP-8	Pendant Cap Mount Kit for FCM-CD51/CD55 (set of 8)
Free Applications**		
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>



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