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FortiCamera™

FortiCamera FD40, FD20B, MD50, MD40, MD20, OB30, CB20, MB40, SD20B and FE120

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.

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
- 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

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 FD20B

This fixed dome camera is a popular configuration and delivers outstanding flexibility and utility at an affordable price. The crisp 1080p resolution image is transmitted in high efficiency H.265 encoding. A varifocal lens can cover up to 108-degree 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 MD50 and MD40

Packed with enhanced features, this compact design delivers exceptional results in any situation. The crisp 5 MP images (4 MP for MD40) over the 96-degree viewing range (85-degree for MD40) 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 and MD50 stand 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.

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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 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-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 0.005 Lux night sensitivity generates great images even in dimly lit areas.

FortiCamera FE120

A superior 12 mega pixel Fisheye camera, FCM-FE120 introduces video performance where excellent overview is demanded and at the same time minimizes installation requirements. One FE120 can provide 360-degree ceiling or 180-degree wall mount panoramic views. The compact design is packed with a rich feature set including IP67 weather rating, built-in audio mic and IR illuminators. Low light and complicated light situations against windows are handled with the high sensitivity CMOS sensor and Shutter WDR (>120dB). This powerhouse delivers worry free installation with 360-degree panoramic coverage, anytime, anywhere.

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Specifications

	FORTICAMERA FD40	FORTICAMERA FD20B
Description	Ultra-WDR Day/Night IP Video Security Camera	Versatile Day/Night IP Video Security Camera
Format *	Fixed Dome, Indoor/Outdoor, vandal	Fixed Dome, Indoor/Outdoor, vandal
Sensor Type	4 mega-pixel, 1/3" Progressive CMOS	2 mega-pixel, 1/2.8" Sony CMOS
Iris	F1.6, P-Iris	F1.4, fixed
Optical Zoom	3x	4x
Digital Zoom	–	–
Focal Length	3–9 mm (motorized, autofocus)	f = 2.8 mm–12 mm varifocal
View Angle	H: 109°–33°	H: 108°–33° V: 56°–18° D: 134°–39°
Minimum Illumination	0.1 Lux (Color), 0.01 Lux (B/W) @ F1.2	0.01 Lux (Color), 0.001 Lux (B/W) @ F1.4
Wide Dynamic Range	Shutter WDR (>120 dB)	Digital (>80dB)
Streaming Protocols	RTSP	RTSP
Video Compression	MJPEG / H.264 (MPEG-4 Part 10/AVC) Baseline / Main / High Profile	H.264 / H.256 (HEVC)
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
Audio	Line in/out	Line in/out
Interface	1 DI, 1 DO, RJ45 Ethernet 10/100 Mbps	1 DI, 1 DO, RJ45 Ethernet 10/100 Mbps
Mounting	Wall, ceiling, 3/4" Conduit	Wall, ceiling, 3-axis, optional sunshield
Operation		
Pan / Tilt	–	–
Presets / Accuracy / Speed	–	–
IRLED / IRC	40m / Yes	30m / Yes
EIS / DNR	– / 3DNR	– / 3DNR
Dimensions		
Height x Width x Length (inches)	4.6 x 5.2 x 5.2	6.3 x 4.5 x 4.5
Height x Width x Length (mm)	117 x 134 x 134	161 x 115 x 115
Weight	1.69 lbs (770 g)	2.13 lbs (965 g)
Environment		
Power Source	PoE (802.3af) / DC 10–48V / AC 24V	PoE (802.3af) / DC12V±10% / AC 24V±10%
Power Consumption (Average)	Cold start 8.5 W > Operation 13.34 W max with heater	3.5 W (9 W IR on)
Operating Temperature	-67–131°F (-55–55°C)	14–122°F (-10–50°C)
Humidity	10–90% 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

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

Specifications

	FORTICAMERA MD50	FORTICAMERA MD40	FORTICAMERA MD20
Description	Day/Night IP Video Security Camera	Day/Night IP Video Security Camera	Day/Night IP Video Security Camera
Format *	Mini Dome, Indoor/Outdoor, vandal	Mini Dome, Indoor/Outdoor, vandal	Mini Dome, Indoor/Outdoor
Sensor Type	5 mega-pixel, 1/2.8" Progressive CMOS	4 mega-pixel, 1/3" Progressive CMOS	2 mega-pixel, 1/2.8" Sony CMOS
Iris	F2.2, fixed	F1.6, fixed	F1.4, fixed
Optical Zoom	–	–	–
Digital Zoom	–	–	–
Focal Length	f = 3.2 mm	f = 3.6 mm	f = 3.6 mm
View Angle	H: 96° V:71° D:123°	H: 85.2°	H: 70° V: 59° D: 107°
Minimum Illumination	0.005 Lux (Color) @ F1.2, 0.004 Lux (B/W) @ F1.2	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)	Shutter WDR (>120 dB)	Digital
Streaming Protocols	RTSP	RTSP	RTSP
Video Compression	MJPEG / H.264 / H.265 (HEVC)	MJPEG / H.264 / H.265 (HEVC)	H.264
Image Resolution	2592 x 1944 at 20 frames per second 1920 x 1080 at 30 frames per second 1280 x 960, 1280 x 720, 704 x 576	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	One-way, built-in mic	One-way, built-in mic	–
Interface	RJ45 Ethernet 10/100 Mbps	RJ45 Ethernet 10/100 Mbps	RJ45 Ethernet 10/100 Mbps
Mounting	Wall, ceiling, 3-axis	Wall, ceiling, 3-axis	Wall, ceiling, 3-axis
Operation			
Pan / Tilt	–	–	–
Presets / Accuracy / Speed	–	–	–
IRLED / IRC	20m / Yes	20m / Yes	25m / Yes
EIS / DNR	– / 3DNR	– / 3DNR	– / Yes
Dimensions			
Height x Width x Length (inches)	2.6 x 4.4 x 4.7	2.6 x 4.4 x 4.7	2.6 x 4.8 x 5.0
Height x Width x Length (mm)	65 x 110.8 x 118.5	65 x 110.8 x 118.5	65 x 123 x 126
Weight	1.1 lbs (500 g)	1.1 lbs (500 g)	0.68 lbs (310 g)
Environment			
Power Source	PoE (802.3af)	PoE (802.3af)	PoE (802.3af) / DC12V±10%
Power Consumption (Average)	2.5 W; 5.5 W max (with IR on)	2.5 W; 5.5 W max (with IR on)	5 W
Operating Temperature	-22–140°F (-30–60°C)	-22–140°F (-30–60°C)	14–122°F (-10–50°C)
Humidity	0–90% non-condensing	0–90% non-condensing	0–85% non-condensing
Compliance			
Regulatory and Standards	FCC Class B, ICES, CE, UL, IP67, IK09, ONVIF Profile S+G	FCC Class B, ICES, CE, UL, IP67, IK09, ONVIF Profile S	FCC Class B, CE Mark, IP65, ONVIF2.2

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Specifications

	FORTICAMERA OB30	FORTICAMERA CB20	FORTICAMERA MB40
Description	Professional Day/Night IP Video Security Camera	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 x1536 @ 30 frames per second Full HD 1080p / 720pP / 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 DI, 1 DO, 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 / ONFIV / UL / IP67 / IK10	FCC Class B, CE Mark, weatherproof (IP66), ONVIF2.2	CE / FCC / RoHS

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Specifications

	FORTICAMERA SD20B	FORTICAMERA FE120
Description	Ultra-WDR IP PTZ Camera	Fisheye Day/Night IP Video Security Camera
Format *	Speed Dome, Indoor/Outdoor	Fisheye, Indoor/Outdoor
Sensor Type	2 mega-pixel, 1/2.8" Sony Progressive CMOS	12 mega-pixel, 1/1.7" Progressive CMOS
Iris	F1.6 (W), F4.7 (T) P-Iris	F2.8, fixed
Optical Zoom	30x	–
Digital Zoom	10x	–
Focal Length	f = 4.3 mm–129 mm (motorized, autofocus)	f = 1.98 mm
View Angle	H: 65°–2°	Ceiling Mount: 360°; Wall Mount: 180°; Table Mount: 360°
Minimum Illumination	0.02 Lux (Color), 0.005 Lux (B/W) @ F1.6	0.04 Lux (Color) @ F2.8, 0.02 Lux (B/W) @ F2.8
Wide Dynamic Range	Shutter WDR (>96 dB)	Shutter WDR (>120 dB)
Streaming Protocols	RTSP	RTSP
Video Compression	H.265 / H.264 / MJPEG	MJPEG / H.264 / H.265 (HEVC)
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	4000×3000 at 25 frames per second 3000×3000 at 30 frames per second 2560×2560, 1920×1920, 1280×1280, 1280×960, 1024×1024, 720×720, 320×320
Audio	Line in/out	Two-way, built-in mic
Interface	4 DI, 2 DO, RJ45 Ethernet 10/100 Mbps	1 DI, 1 DO, RJ45 Ethernet 10/100/1000 Mbps
Mounting	Wall, pole, ceiling (see "Optional Accessories")	Wall, ceiling, table
Operation		
Pan / Tilt	360° endless / -10°–100°	–
Presets / Accuracy / Speed	256 / 0.056° / 5°–400° /s	–
IRLED / IRC	– / Yes	15m / Yes
EIS / DNR	Yes / 3DNR	– / 3DNR
Dimensions		
Height x Width x Length (inches)	11.0 x 8.26 × 8.26 (with sunshield)	1.8 x 5.5 x 5.5
Height x Width x Length (mm)	279 x 210 x 210 (with sunshield)	45.4 x 140 x 140
Weight	6.4 lbs (2.9 kg)	1.1 lbs (500 g)
Environment		
Power Source	802.3at PoE+ (class4) / AC 24V ±10%	PoE (802.3af) / DC12V
Power Consumption (Average)	25.4 W (with heater)	4.8 W, 8 W max (with IR on)
Operating Temperature	-40–122°F (-40–50°C)	-22–140°F (-30–60°C)
Humidity	10–90% non-condensing	0–90% non-condensing
Compliance		
Regulatory and Standards	CE / FCC / RoHS / IP66 / IK10 / ONVIF Profile S, G	FCC Class B, ICES, CE, UL, IP67, IK09, ONVIF Profile S,G

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Order Information

Product	SKU	Description
FortiCam FD40	FMC-FD40	4 mega-pixel fixed dome IP camera, IR/night vision, shutter WDR, indoor/outdoor, motorized zoom, AF.
FortiCam FD20B	FCM-FD20B	2 mega-pixel fixed dome IP camera, IR/night vision, sunshield, indoor/outdoor, varifocal.
FortiCam MD50	FCM-MD50	5 mega-pixel mini dome IP camera, IR/night vision, shutter WDR, indoor/outdoo, fixed lens.
FortiCam MD40	FCM-MD40	4 mega-pixel mini dome IP camera, IR/night vision, shutter WDR, indoor/outdoo, 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 SD20B	FCM-SD20B	2 mega-pixel speed dome PTZ IP camera, DIDO, 1x 10/100 port, 802.3at PoE, outdoor use, rated IP66.
FortiCam FE120	FCM-FE120	12 mega-pixel panoramic IP camera, IR/night vision, shutter WDR, indoor/outdoor, fixed lens.
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 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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