



1.2.2 Camera Variants – Lenses, Hardware, Image Formats

Camera Model	
	M15D-SEC
Lenses, Sensors	
Hemispheric 12 mm	L12
Super Wide-Angle 25 mm	L25
Wide-Angle 38 mm	L38
Wide-Angle 51 mm	L51
Tele 76 mm	L76
Tele 160 mm	L160
CSVario 24 to 54 mm	–
Image sensor with individual exposure zones	Color/BW (any combination)
Image sensor sensitivity in lux at 1/60 s / 1 s	0.25/0.013 or 0.05/0.0025 (BW)
Image sensor resolution	5 MP (2592x1944 pixels)
Hardware Features	
IP protection class	IP66
Temp. internal DVR (MB)	64
Internal DVR (MicroSD, up to 64 GB)	4 GB incl.
Microphone/speaker	X/X
Passive infrared sensor (PIR)	X
Internal/ambient temperature sensor	X/X
Shock detector	X
Power consumption in watts (typical)	< 5
Variable PoE class	2 – 3
Image Formats, Frame Rates and Image Storage	
Max. resolution (per sensor)	3MEGA (2048x1536)
Max. frame rate (MxPEG, max. resolution)	20 fps
CIF images with 4 GB MicroSD DVR	250,000
VGA images with 4 GB MicroSD DVR	125,000
MEGA images with 4 GB MicroSD DVR	40,000
3MEGA images with 4 GB MicroSD DVR	20,000

1.2.3 Camera Variants – Software Features

Camera Model	
	M15D-SEC
General Features	
Digital zoom (continuous) with panning	X
Motion JPEG/MxPEG/H.264 codecs	X/X/X (SIP video only)
Programmable exposure ones	X
Snapshot rec. (pre-/post-alarm images)	50
Terabyte ring buffer storage (internal/network)	X
Continuous rec. with sound (0.2 to 30 fps)	X
Event recording with sound	X
Time and event control	X
Weekly schedules/holidays	X
Web functionality (FTP, email)	X
Playback/Quad and MultiView, bidirectional sound in browser	X
Logo generator, animated	X
Flexible event logic	X
Master/Slave arming	X
Several scheduled privacy zones	X
Customized voice messages	X
VoIP telephony (audio/video, alert)	X
Remote alarm notification (network msg.)	X
Signal inputs/outputs, RS232	Via MX-232-IO-Box
Programming interface/HTTP API	X
Security features (HTTPS/SSL, IP-based access control, IEEE 802.1X network authentication)	X
Video Analysis	
Video Motion detector	X
MxAnalytics	–
MxActivitySensor	X
Video Management Software	
MxEasy, MxControlCenter	X
MOBOTIX App	X

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www.mobotix.com
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1.2.4 Technical Data

Technical Data M15	
Model variants	MX-M15M-SEC (Day or Night sensor module) MX-M15D-SEC (any combination of Day/Night sensor modules)
Lens Options	12 to 160 mm (compared to 35 mm camera), horizontal angle 180° to 13°
Sensitivity	Color sensor: 0.25 lux at 1/60 s, 0.013 lux at 1 s Black and white sensor: 0.05 lux at 1/60 s, 0.0025 lux at 1 s
Image sensor (per sensor module)	1/2.5" CMOS, 5 MP (2592x1944 pixels), progressive scan
Max. image resolution with one sensor module	Color: 2048x1536 (3MEGA) Black and white: 2048x1536 (3MEGA)
Max. image resolution with two sensor modules (dual image)	Color: 4096x1536 (6MEGA) Black and white: 4096x1536 (6MEGA)
Image formats (configurable per sensor)	Selectable image formats, for example, 2048x1536 (3MEGA), 1920x1080 (full HD), 1280x960 (MEGA), 1280x720 (HD), 1024x768, 800x600, 768x576 (D1-PAL), 704x576 (TV-PAL), 640x480, 384x288, 320x240, 160x120
Max. frame rate (M-JPEG) (live/recording)	VGA: 30 fps, MEGA: 10 fps, 3MEGA: 4 fps, 6MEGA: 2 fps
Max. frame rate (MxPEG) (live and recording incl. sound)	VGA: 30 fps, MEGA: 30 fps, 3MEGA: 20 fps, 6MEGA: 8 fps
Image compression	MxPEG, M-JPEG, JPEG, H.264 (SIP video only)
Internal DVR	MicroSD slot including 4 GB, max. 64 GB
External video ring buffer	Up to 4 TB directly on NAS and computer/server without additional recording software
Software (included)	MxEasy video management software, MxControlCenter control center software, MOBOTIX App for iOS devices from Version 5.0
Image processing	Backlight compensation, automatic white balance, image distortion correction, video sensor (motion detection/MxActivitySensor)
Virtual PTZ	Digital pan/tilt/zoom, continuous 8X zoom
Alarm/events	Video motion detection, MxActivitySensor, external signals, temperature sensor, PIR, microphone, shock detector, notification via e-mail, FTP, IP telephony (VoIP, SIP), visual/ acoustic alarms, pre- and post-alarm images
Microphone and speaker	Integrated microphone and speaker
Audio functions	Lip-synchronous audio, two-way communication, audio recording
Interfaces	10/100 Ethernet, MiniUSB, MxBus; inputs, outputs and RS232 via accessories

Technical Data M15	
Video telephony	VoIP/SIP, two-way communication, remote controlling with key code, event notification
Security	User/group management, HTTPS/SSL, IP address filter, IEEE 802.1x, intrusion detection, digital image signature
Certifications	EMV (EN 55022, CISPR 22, EN 55024, EN 61000-6-1/2, FCC Part15B, CFR 47, AS/NZS 3548)
Power supply	Year-round Power-over-Ethernet (IEEE 802.3af); PoE class variable, approx. 5 W (M15D)/4.5 W (M15M)
Operating conditions	IP66, -30 to +60°C/-22 to +140°F
Dimensions/weight M15 without sensor modules	W x H x D with wall mount: 158 x 244 x 239 mm; W x H x D with ceiling mount: 158 x 210 x 207 mm; Weight with wall mount: Approx. 1,129 g Weight with ceiling mount: approx. 1,078 g
Dimensions/weight Sensor modules	L12: diam. x H: 43 x 45 mm (installation dim.), weight: 85 g L25, L51: diam. x H: 43 x 57 mm (installation dim.), weight: 111 g L35, L76, L160: diam. x H: 43 x 60 mm (installation dim.), weight: 122 g
Delivered parts	Housing (high-resistance composite, PBT), white, shock-resistant dome for L12 sensor module, coated glass pane for all other sensor modules, accessories for installation on wall and ceiling, Allen wrench, 50 cm patch cable, manual, software, 4 GB MicroSD card (built-in, SEC/IT models only)

