



Technical Specifications

MOBOTIX M73

Flexible. Modular. Unique.

Weatherproof and robust, the latest generation of our successful M camera models features increased modularity as well as the latest MOBOTIX 7 system platform with intelligent Plug-In App concept. The result is a system completely unrivaled in terms of performance, functionality and design.

- Platform with the most flexible codec support: H.264, H.265*, MxPEG+ and MJPEG
- ONVIF Profile S and T* conformity guarantees utmost interoperability
- Increased modularity with flexible usage of a combination of up to three sensor or functional modules
- 4K UHD resolution
- Wide Dynamic Range (WDR) with up to 120 dB
- Easy Plug quick-mounting system
- Robust in any environment: -40 to 65 °C/-40 to 149 °F, IP66, and IK07

* available with firmware update Q2/2020

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Hardware

Image sensor (color or B&W sensor)	4K UHD 3840x2160, 16:9, 1/1,8"
Light sensitivity in Lux at 1/60 s and 1/1 s	0.1/0.005 (color) 0.02/0.001 (B/W)
Exposure control	Manual and automatic mode 1 s to 1/16,000 s
Video codecs	H.264, H.265* with Triple Streaming MxPEG+ MJPEG
IK protection class M73 housing	IK07
Operating temperature (range, including housing)	-40 to 65 °C/-40 to 149 °F/95 % rel. humidity (non-condensing)
Internal DVR, out of the box	MicroSD card (8 GB), MxPEG+ recording only
I/Os	1 input/1 output
Microphone/Speaker	Via Line In/Out on connection box or via audio module
Passive infra-red sensor (PIR)	Available with functional module* (max. 4.5 Watt)
Infra-red illumination	Three functional modules for wide-angle, standard, and tele lenses
Range of infra-red illumination	Up to 30 m/100 ft (may be more depending on scene)
Shock detector (tamper detection)	Yes
Max. power consumption	25 Watt
PoE standard	PoE Plus (802.3at-2009)/Class 4
Interfaces	Ethernet 1000BaseT miniUSB**
Mounting Options	Wall- or pole-mountable (with Pole Mount accessory)
Dimensions (height x width x depth)	228 x 153 x 232 mm

Weight without sensor modules	Approx. 2.5 kg/5.5 lb
Housing	Aluminum, PBT-30GF
Standard accessories	
Tiltability of camera	Horizontal: 2 x 180 degrees Vertical: 110 degrees
Detailed technical documentation	www.mobotix.com > Support > Download Center > Marketing & Documentation
MTBF	80,000 hours
Certificates	EN55032:2012+AC:2013, EN55035:2017, EN50121-4:2016, EN61000-6-1:2007, EN61000-6-2:2015, EN61000-6-3:2007+A1:2011+AC:2012, EN61000-6-4:2007+A1:2011, EN 50581:2012, EN62368-1:2014+AC:2015, EN69050-22:2006, 47 CFR Part 15b, AS/NZS CISPR32:2015
Protocols	DHCP (client and server), DNS, ICMP, IGMP v3, IPv4, IPv6, HTTP, HTTPS, FTP, FTPS, NFS, NTP (client and server), RTP, RTCP, RTSP, SIP (client and server), SMB/CIFS, SNMP, SMTP, SSL/TLS 1.3, UDP, VLAN, VPN, Zeroconf/mDNS
Manufacturer warranty	3 years

Image formats, frame rates, image storage

Available video codecs	MxPEG+/MJPEG/H.264/H.265*
Image resolutions	VGA 640x360, XGA 1024x576, HD 1280x720, FullHD 1920x1080, QHD 2560x1440, 4K UHD 3840x2160
H.264 multi streaming	Triple Streaming
Multicast stream via RTSP	Yes
Max. image resolution (dual image of both sensors)	4K UHD 3840x2160 (8MP)
Max. frame rate	MxPEG: 20@4K, H.264: 30@4K, H.265: 30@4K*

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General Features

WDR	Up to 120 dB
Digital pan, tilt, zoom features (virtual PTZ)	Yes (up to 8x zoom)
ONVIF compatibility	Profile S, T*
Genetec protocol integration	Yes
Custom exposure windows	Yes
Continuous recording	Yes
Event recording	Yes
Time-controlled flexible event logic	Yes
Weekly schedules for recordings and events	Yes
Transfer of event images and videos via FTP and email	Yes
Playback and Quad view via web browser	Yes
Animated logos as image overlay	Yes
Master/Slave functionality	Yes
Time-controlled privacy areas	Yes
Remote alarm notification	E-mail, network message (HTTP/HTTPS), SNMP, MxMessageSystem
Programming interface (HTTP API)	Yes
DVR/storage management (MxPEG+ only)	Within the camera via microSD card, on external USB and NAS devices, different streams for live image and recording, MxFFS with buffered archive, pre and post-alarm images, storage monitoring with error reporting
Camera and data security	User and group management , SSL connections, IP-based access control, IEEE 802.1X, intrusion detection, digital image signature

MxMessageSystem	Yes
Video telephony (only with audio module)	VoIP/SIP, two-way communication, remote controlling using key codes, event notification

Video Analysis

Video motion detection	Yes
MxActivitySensor	Version 1.0, 2.1 and object-based Activity Sensor AI*
ONVIF compatibility	Profile S, T*
MxAnalytics	Heatmap, people counting & object-based counting
MOBOTIX App support	Yes

Video management software

MxManagementCenter	Yes (MxMC 2.2 and higher) www.mobotix.com > Support > Download Center > Software Downloads
MxBell	Yes www.mobotix.com > Support > Download Center > Software Downloads

Supported sensor modules

Mx-O-M7SA-8DN050	95° 4K IR cut Day & Night sensor module
Mx-O-M7SA-8DN100	45° 4K IR cut Day & Night sensor module
Mx-O-M7SA-8DN280	15° 4K IR cut Day & Night sensor module
Mx-O-M7SA-8D050	95° 4K Day sensor module
Mx-O-M7SA-8D100	45° 4K Day sensor module
Mx-O-M7SA-8D280	15° 4K Day sensor module
Mx-O-M7SA-8N050	95° 4K Night sensor module
Mx-O-M7SA-8N100	45° 4K Night sensor module
Mx-O-M7SA-8N280	15° 4K Night sensor module

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Supported functional modules

Functional audio module	Microphone/Speaker
Functional MultiSense module	PIR sensor, temperature sensor, illumination sensor, microphone
Mx-F-IRA-W	Infra-red LED illumination for wide-angle lens 95°
Mx-F-IRA-S	Infra-red LED illumination for standard lenses
Mx-F-IRA-T	Infra-red LED illumination for tele lenses 15 to 30°

* available with firmware update Q2/2020

** available with firmware update Q1/2020

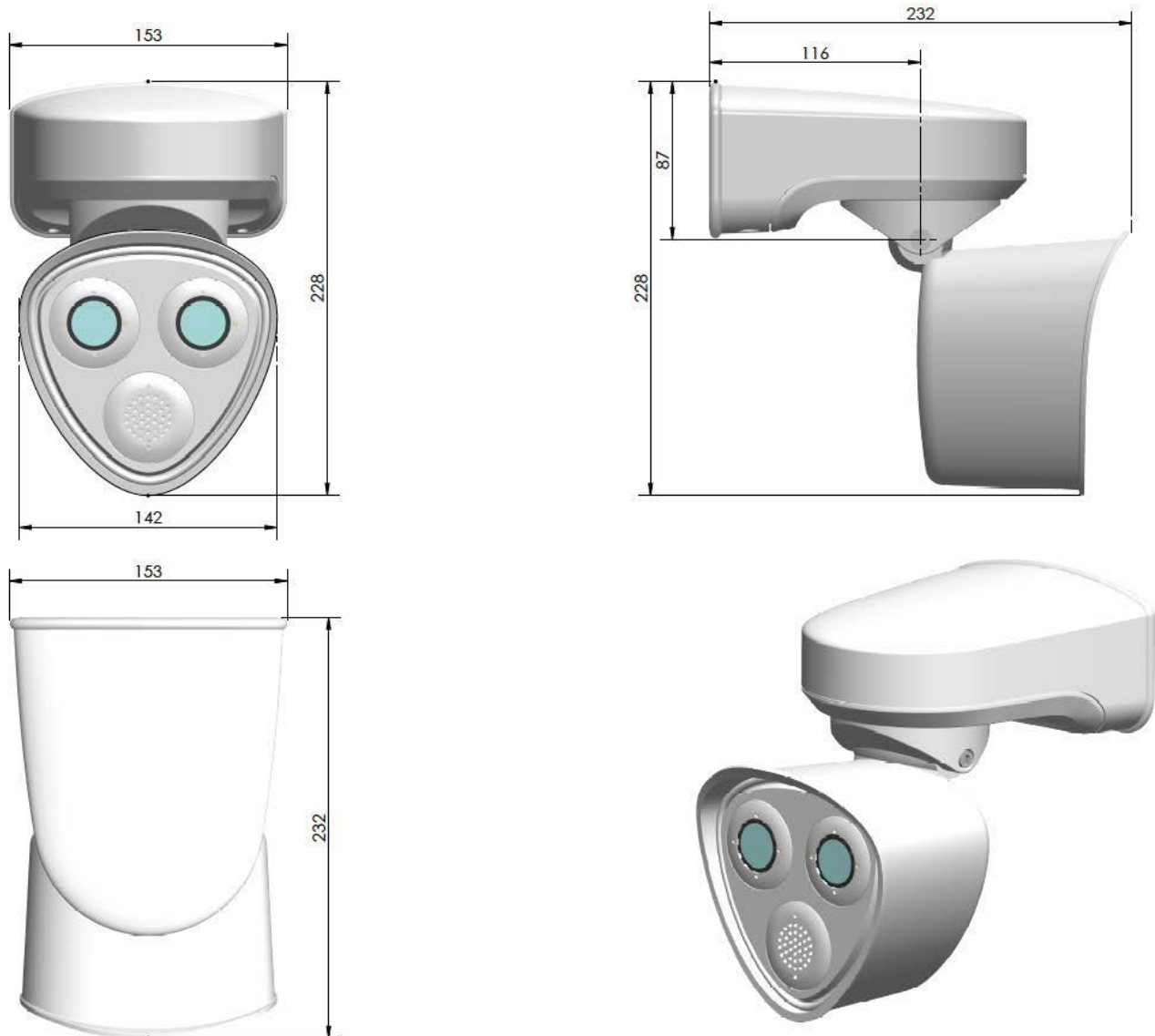








Fig. 1: M73: All measurements in mm

DIN EN 50132-7

As specified in the DIN EN 50132-7 standard, there are six different levels of quality for video surveillance. “Inspect” is the level with the highest demands on image quality, whereas “Monitor” is the one with the lowest. These can be used to determine the maximum distance between camera and surveillance area, the required minimum resolution, and the most suitable camera lens for optimal coverage of the surveillance area.

			
	B050 Wide	B100 Standard	B280 Tele
Image angle (horizontal)			
Focal Length	5 mm	10 mm	28 mm
Aperture f/	1,8	1,8	1,8
Image angle (horiz. x vertical)	95° x 50°	45° x 25°	15° x 8,5°
Image width/height (dist. 1 m)	2,2 / 0,9 m	0,8 / 0,4 m	0,3 / 0,1 m
Image width/height (dist. 10 m)	21,8 / 9,3 m	8,3 / 4,4 m	2,6 / 1,5 m
Image width/height (dist. 50 m)	109,1 / 46,6 m	41,4 / 22,2 m	13,2 / 7,4 m



Maximum Distances In Meters @ 4K UHD (3840 x 2160)			
Monitor	185,29 m	389,73 m	1.162,65 m
Detect	92,64 m	194,86 m	581,33 m
Observe	37,06 m	77,95 m	232,53 m
Recognize	18,53 m	38,97 m	116,27 m
Identify	9,26 m	19,49 m	58,13 m
Inspect	2,32 m	4,87 m	14,53 m