

Technical Specifications

MOBOTIX Q71

Hemispherical 360° imaging technology at is best

360° camera technology - compact, complete and versatile. The MOBOTIX Q71 sees everything and always. Its 360° optics are everywhere. For the first time, IR and LED white light are combined in one hemispherical camera. So you can even make the night colorful! 12 megapixels and WDR provide brilliant image quality and impressive details. The integrated audio function makes you heard. Embedded in the MOBOTIX 7 platform with its intelligent apps, the comprehensive video system offers you an infinite range of analysis options.

- 4K effective resolution: 8MP 1:1 2880x2880 (original hemispherical image)
- Integrated IR and white light LED spotlight
- Platform with the most flexible codec support: H.264, H.265, MxPEG+ and MJPEG
- ONVIF Profile G, S, T conformity guarantees utmost interoperability
- 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 IK10 (with optional accessory)



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Order Information

Name	MOBOTIX Q71
Order Code:	Mx-Q71A-12DN016

Hardware

Image sensor (DN)	12MP (1:1) effective max. resolution 2880x2880
Light sensitivity	 Color sensor (day): 0,1 lx @ 1/60 s; 0,005 lx @ 1 s BW sensor (night): 0,02 lx @ 1/60 s; 0,001 lx @ 1 s
Exposure control	Manual and automatic mode 1 s to 1/16,000 s
Video codecs	H.264, H.265 with Triple StreamingMxPEG+MJPEG
IK protection class	IK10 (with optional accessory)
IP protection class	IP66

Operating temperature	–40 to 65 °C/–40 to 149 °F	
range		
Min. cold start temperature	−30 °C/−22 °F	
Relative Humidity	95 % non-condensing	
Internal DVR, out of the box	MicroSD card (8 GB), MxPEG+ recording only	
I/Os	INPUT	
	 Contact Closure (no galvanic isolation necessary) or up to 50V AC/DC max. length for cables: 50m OUTPUT	
	 requires pull-up resistor and external power supply (10mA / max. 50V DC - no AC) max. length for cables: depends on loop impedance of the connected cable. 	
	Specs for cables connected to the PCB terminals:	
	Conductor cross section	
	AWG	20 - 26
	Rigid	0.14mm ² - 0.5mm ²
	Flexible	0.14mm ² - 0.5mm ²
	Flexible with ferrule	0.25mm ² - 0.34mm ²
Microphone/Speaker	Integrated Microphone:	
	Sensitivity: -35 dB +/-4 dB (0 dB = 1 Integrated Loudspeaker:	V/pa, 1 kHz)
	■ 0.9 W at 8 Ohm	
	Line in / Line out	
Integrated illumination	IR and White Light up to 15 m	
Shock detector (tamper detection)	Yes	
Max. power consumption	max. 25 W	
Electrical surge protection	Available with MX-Overvoltage-Protectionery)	-Box (not part of the scope of deliv-

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	 Ethernet 1000BaseT (RJ45 according to EIA/TIA-568B) USB-C/USB2.0; High-Speed (V_{out} = 5.1 V, I_{out} = 0.9 A, P_{out} = 4.5 W) all- or ceiling-mountable x 47,5 mm
	•
Dimensions 16	54 x 47,5 mm
(Ø x height)	
Weight Gr	ross weight: 1.050 g
Housing Alu	uminum, PBT-30GF
1 r 2 s 1 E 1 / 1 (4 c 4 s 1 T 4 s 1 T	terminal blocks mounting cable with sealing, 0.5 m/~2 in silicone sealings for patch cable Ethernet patch cable RJ45, 50 cm/19.7 in Allen wrench 2.5 mm Q71 lens wrench blue dowels 8 mm stainless steel pan head-screws 4.5x60 mm stainless steel washers Ø5.3 mm Torx wrench TX 20 sealing plugs, white Important Safety Information Camera Connection Flyer
	ww.mobotix.com > Support > Download Center > Marketing & Docuentation
MTBF 80),000 hours
Fp EN	N 50121-4:2015, EN 50581:2012, EN 55032:2012+AC:2013, EN 55035:2017, or EN 61000-6-1:2015, EN 61000-6-2:2015, EN 61000-6-3:2007+A1:2011+AC:2012, N 61000-6-4:2007+A1:2011, EN 62368-1:2014 + AC: 2015 + A11: 2017 + AC: 2017, C 60950-22:2016, AS/NZS CISPR32:2015, 47 CFR Part 15b
FT	HCP (client and server), DNS, ICMP, IGMP v3, IPv4, IPv6, HTTP, HTTPS, FTP, IPS, NFS, NTP (client and server), RTP, RTCP, RTSP, SFTP, SIP (client and erver), SMB/CIFS, SNMP, SMTP, SSL/TLS 1.3, UDP, VLAN, VPN, Zeroconf/mDNS
Manufacturer warranty 5 y	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, 4MP 2688x1512, 8MP 1:1 2880x2880
H.264 multi streaming	Triple Streaming
Multicast stream via RTSP	Yes
Max. image resolution	8MP 1:1 2880x2880 hemispheric image
Max. frame rate	MxPEG: 20@4k, H.264: 30@4k, H.265: 30@4k

General Features

WDR	Up to 120 dB
Software features	 H.264, H.265 Multistreaming Multicast stream via RTSP Digital pan, tilt, zoom/vPTZ (up to 8x zoom) Genetec protocol integration Custom exposure zones Snapshot recording (pre/post-alarm images) Continuous recording Event recording Time-controlled flexible event logic Weekly schedules for recordings and actions Event video and image transfer via FTP and email Playback and QuadView via web browser Animated logos on the image Master/Slave functionality Privacy zone scheduling Remote alarm notification (network message)
	Programming interface (HTTP-API)MOBOTIX MessageSystem

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ONVIF compatibility	Profile G, S, T
Master/Slave functionality	Yes
Remote alarm notification	email, network message (HTTP/HTTPS), SNMP, MxMessageSystem
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, preand post-alarm images, storage monitoring with error reporting

Video Analysis

Video motion detection	Yes
MxActivitySensor	Version 1.0, 2.1 and object-based MxAnalytics AI
MxAnalytics	Heatmap, people counting & object-based counting
MOBOTIX App support	Yes

Video Management Software

Feature	Properties
MOBOTIX HUB	Yes
	www.mobotix.com > Support > Download Center > Software Downloads
MxManagementCenter	Yes (MxMC 2.2 and higher)
	www.mobotix.com > Support > Download Center > Software Downloads
MOBOTIX LIVE App	Yes Available in Android and iOS App Stores.

Dimensions

NOTE! Download the drilling template from the section or on the MOBOTIX website: **www.mobotix.com** > **Support** > **Download Center** > **Marketing & Documentation** > **Drilling Templates**.

CAUTION! Always print or copy the drilling template at 100% of the original size!

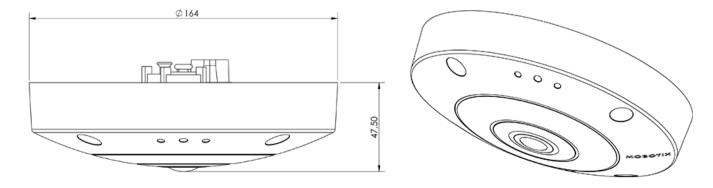


Fig. 1: MOBOTIX Q71: All measurements in mm

