

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: 12MP (1:1) effective max. resolution 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, NEMA 4X and IK10 (with optional accessory)

HEVCAdvance™

MOBOTIX

Table of Contents

Order Information	2
Hardware	2
Image Formats, Frame Rates, Image Storage	5
General Features	6
Video Analysis	7
Video Management Software	7
Dimensions	8

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
IK protection class	IK10 (with optional accessory)
IP / NEMA protection class	IP66 / NEMA 4X (except the lens)
Operating temperature range	–40 to 65 °C/–40 to 149 °F
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 max. length for cables: 50m) OUTPUT requires pull-up resistor and externing no AC) max. length for cables: depends on cable. Specs for cables connected to the PCB tention conductor cross section AWG Rigid 	al power supply (10mA / max. 50V DC loop impedance of the connected
	Flexible	0.14mm ² - 0.5mm ²
Microphone/Speaker	Flexible with ferrule Integrated Microphone: Sensitivity: -35 dB +/-4 dB (0 dB = 1 Integrated Loudspeaker:	0.25mm ² - 0.34mm ² 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	
Average power consumption	13.2 W	
Electrical surge protection	Available with MX-Overvoltage-Protection ery)	-Box (not part of the scope of deliv-

Technical Specifications

MOBOTIX Q71

PoE standard	PoE Plus (802.3at-2009)/Class 4 (Class 3 can be enabled via HW switch. Note: IR illumination requires Class 4)
Interfaces	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)
Mounting Options	Wall- or ceiling-mountable
Dimensions (Ø x height)	164 x 47,5 mm
Weight	Gross weight: 1.050 g
Housing	Aluminum, PBT-30GF
Standard accessories	2 terminal blocks
	1 mounting cable with sealing, 0.5 m/~2 in
	2 silicone sealings for patch cable
	1 Ethernet patch cable RJ45, 50 cm/19.7 in
	1 Allen wrench 2.5 mm
	1 Q71 lens wrench blue
	4 dowels 8 mm
	4 stainless steel pan head-screws 4.5x60 mm
	4 stainless steel washers Ø5.3 mm
	1 Torx wrench TX 20
	4 sealing plugs, white
	2 IO-plugs
	1 Important Safety Information
	1 Camera Connection Flyer
Detailed technical doc-	www.mobotix.com > Support > Download Center > Marketing & Docu-
umentation	<u>mentation</u>
MTBF	80,000 hours
Certificates	EN 50121-4, EN 55032, EN 55035, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 62368-1, EN 63000, AS/NZS CISPR32, 47 CFR Part 15b

Protocols	DHCP (client and server), DNS, ICMP, IGMP v3, IPv4, IPv6, HTTP, HTTPS, FTP, FTPS, NFS, NTP (client and server), RTP, RTCP, RTSP, SFTP, SIP (client and server), SMB/CIFS, SNMP, SMTP, SSL/TLS 1.3, TCP, UDP, VLAN, VPN, Zeroconf/mDNS
Manufacturer warranty	5 years

Image Formats, Frame Rates, Image Storage

Available video codecs	■ H.264, H.265
	■ MxPEG+
	■ MJPEG
Image resolutions	VGA 640x360, XGA 1024x576, HD 1280x720, FullHD 1920x1080, 4MP 2688x1512, 8MP 1:1 2880x2880
Multi streaming	H.264, H.265 with triple streaming
Multicast stream via RTSP	Yes
Max. image resolution	12MP (1:1) effective max. resolution 2880x2880 hemispheric image
Max. frame rate (fps)	MxPEG: 20@4k, H.264: 30@4k, H.265: 30@4k

General Features

Feature	Properties
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
ONVIF compatibility	Profile G, S, T
Master/Slave functionality	Yes
Remote alarm notification	email, network message (HTTP/HTTPS), SNMP, MxMessageSystem

Feature	Properties
DVR / image storage management	MxPEG+ only
	Internal microSD card (SDHC/SDXC), 8 GB out of the box
	On external USB and NAS devices,
	 Different streams for live image and recording
	 MxFFS with buffered archive, pre- and post-alarm images, storage mon- itoring 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

Video Analysis

Video motion detection	Yes
MxActivitySensor	Version 1.0, 2.1
MxAnalytics	Heatmap, people counting & object-based counting
MOBOTIX App support	No

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!

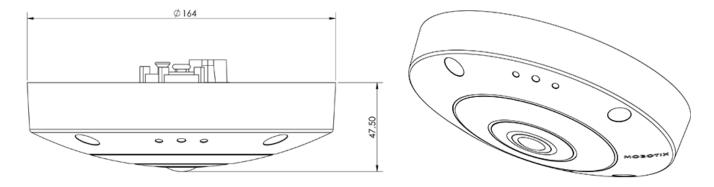


Fig. 1: MOBOTIX Q71: All measurements in mm

