

## MOBOTIX Q25M Hemispheric Camera



### Allround Easy. Allround Secure.

An elegant, ultra-compact and weatherproof IP dome camera. The Q25 opens up a whole new range of application scenarios thanks to the 360° allround view for recording an entire room, widescreen panoramic images and simultaneous quad display in all four cardinal directions.

- High-resolution widescreen panorama from wall to wall, ideal for access control
- Integrated DVR (up to 64 GB) for long-term recording without network load
- Digital continuous tilting, panning and zooming without mechanically moving the camera
- Robust and low maintenance with no moving parts
- Newest MOBOTIX 5MP sensor technology with up to 30 fps and improved zoom
- Microphone, speaker, MxBus and intelligent movement sensors (MxActivitySensor)
- Optimized image quality and reduced motion blur even in poor lighting conditions

Technical specifications subject to change without notice

#### MOBOTIX Advantages

Extremely high-sensitive 5-megapixel sensors • All relevant events are automatically saved • Highly secure as motion sensors detect even the smallest movements and reduce the number of false alarms • Cost-effective as fewer cameras are needed thanks to HiRes panorama view • Maintenance-free with no heaters, fans or moving parts • Can be expanded thanks to encrypted two-wire bus (MxBus) • Synchronization via GPS satellite means data available in real time • Weatherproof from -30°C to 50°C (-22°F to 122°F) • No licensing or software fees, free-of-charge updates

## Camera Housing



### Standard housing

- Hemispheric allround view (360°)
- Suitable for wall or ceiling mounting
- White or black
- Robust and low maintenance with no moving parts

## Accessories



### Vandalism Set

- Anti-vandalism stainless steel housing with lens protection
- Polished, matt



### In-ceiling set

- Installation set with mounting accessories
- Simple installation from the front
- Ø 15 cm installation dimensions
- White or black
- Optionally available with stainless steel ring



### ExtIO function expansion

- Microphone/Speaker
- Infrared motion sensor, temperature sensor
- 2 signal inputs, 2 signal outputs, 2 illuminated keys

## Application In An Elevator



The discreetly mountable Q25 provides a complete view and at the same time serves as a highly functional intercom system (microphone and speaker are integrated into the camera ex factory)

## Technical Data

<b>Model versions</b>	Basic, Sec, Sec-Night
<b>Lens options</b>	L12 (180° x 160°), L25 (82° x 61°)
<b>Sensitivity</b>	Color sensor: 0.25 lux (t = 1/60 s), 0.013 lux (t = 1/1 s) B/W sensor: 0.05 lux at 1/60 s, 0.0025 lux at 1/1 s MxLEO – Lowlight Exposure Optimization
<b>Image sensors</b>	1/2.5" CMOS, 5 megapixels, progressive scan
<b>Max. image size</b>	Color: 2048 x 1536 (QXGA), B/W: 2048 x 1536 (QXGA)
<b>Image formats</b>	Freely selectable image format (160 x 120 up to 2048 x 1536/color); PTZ views: Surround (Quad), fisheye full image, normal, panorama, double panorama, panorama focus (3 views)
<b>Max. frame rate, M-JPEG (live/recording)</b>	VGA: 30 fps, MEGA/HD: 10 fps, 3MEGA: 4 fps
<b>Max. video rate MxPEG (live/recording/sound)</b>	VGA: 30 fps, MEGA/HD: 30 fps, 3MEGA: 20 fps
<b>Image compression</b>	MxPEG, M-JPEG, JPEG, H.264 (SIP video only)
<b>Internal DVR</b>	MicroSD Slot (recording inside the camera, up to 64 GB; 4-GB card preinstalled)
<b>External storage</b>	Directly on NAS and computer/server without additional recording software
<b>Software (free of charge)</b>	MxEasy video management software, MxControlCenter control center software, MOBOTIX App for iOS devices iOS 5.0 and higher
<b>Image processing</b>	Backlight compensation, automatic white balance, image distortion correction (including panorama image correction), motion detection, MxActivitySensor
<b>Virtual PTZ (vPTZ)</b>	Digital pan/tilt/zoom, continuous 8x zoom, full image recording in the background
<b>Alarm/events</b>	Triggering of events by integrated multiple-window motion detection, temperature sensor, notification over email, FTP, IP telephony (VoIP, SIP), visual/acoustic alarm, pre- and post-alarm images
<b>Audio</b>	Integrated microphone and speaker, lip-synchronous audio, intercom, audio recording
<b>Interfaces</b>	Ethernet 10/100, IPv4/IPv6, MiniUSB, MxBus, IO and RS232 via MX-232-IO-Box (accessory)
<b>Video telephony</b>	VoIP/SIP, intercom, remote controlling with key code, event notification
<b>Security</b>	User/group management, HTTPS/SSL, IP address filter, IEEE 802.1x, intrusion detection, digital image signature
<b>Certifications</b>	EMC (EN50121-4, EN55022, EN55024, EN61000-6-2, FCC part15B, AS/NZS3548)
<b>Power supply</b>	Power over Ethernet (PoE in accordance with IEEE802.3af): PoE class variable (2/3) depending on operating mode; power consumption: typ. 4.5 watts;
<b>Operating conditions</b>	IP65 (DIN EN 60529), -30 to +50 °C/-22 to +122 °F
<b>Dimensions</b>	diam. x H: 16 x 5 cm
<b>Weight</b>	about 450 g

Camera Model	Q25Mi-Basic	Q25M-Sec	Q25M-Sec-Night
<b>Lenses, Sensors</b>			
Hemispheric 12 mm (180° x 160°)	L12	L12	L12
Super Wide-Angle 25 mm (82° x 61°)	–	L25	L25
Wide-Angle 38 mm (55° x 41°)	–	–	–
Wide-Angle 51 mm (40° x 30°)	–	–	–
Tele 76 mm (27° x 20°)	–	–	–
Tele 160 mm (13° x 10°)	–	–	–
Tele 320 mm (7° x 5°)	–	–	–
CSVario 28 – 63 mm (28° – 58°)	–	–	–
Image sensor with individual exposure zones	Color	Color	B/W
Sensor sensitivity in lux at 1/60 s /1 s	0,25/0,013	0,25/0,013	0,005/0,0025
Image sensor resolution (color or B/W sensor)	5 MP (2592 x 1944)	5 MP (2592 x 1944)	5 MP (2592 x 1944)

<b>Hardware Functions</b>			
Protection class	IP54	IP65	IP65
Temperature range -30 to +50°C/-22 to +122°F	•	•	•
Temporary internal DVR	2 MB	64 MB	64 MB
Internal DVR, ex works (max. 64 GB)	–	4 GB (MicroSD)	4 GB (MicroSD)
Microphone/speaker	–/•	•/•	•/•
Passive infrared sensor (PIR)	–	–	–
Integrated temperature sensor	–	•	•
Shock detector	–	•	•
Power consumption (typical)	< 4,5 watts	< 4,5 watts	< 4,5 watts
Variable PoE class (factory default: 3)	2 or 3	2 or 3	2 or 3

<b>Image Formats, Frame Rates, Image Storage</b>			
Maximum image format (per sensor)	HD (1280 x 720)	QXGA (2048 x 1536)	QXGA (2048 x 1536)
Maximum frame rate (MxPEG, max. resolution)	30 fps (HD)	20 fps (QXGA)	20 fps (QXGA)
CIF images with 4 GB MicroSD DVR	–	250,000	250,000
VGA images with 4 GB MicroSD DVR	–	125,000	125,000
HD images with 4 GB MicroSD DVR	–	40,000	40,000
QXGA images with 4 GB MicroSD DVR	–	20,000	20,000

- available ex works
- not available

Camera Model	Q25Mi-Basic	Q25M-Sec	Q25M-Sec-Night
<b>General Functions</b>			
Digital zoom (continuous) with panning	•	•	•
Codecs: Motion-JPEG/MxPEG/H.264 for SIP	•/•/–	•/•/•	•/•/•
Programmable exposure zones	•	•	•
Snapshot recording (pre/post-alarm images)	3	50	50
Terabyte ring buffer storage (internal/network)	–	•	•
Continuous recording with sound (0.2 to 30 fps)	–	•	•
Event recording with sound	–	•	•
Time and event control/flexible event logic	•/-	•/•	•/•
Weekly schedules/holidays	–	•	•
Web functionality (FTP, email)	•	•	•
Playback/QuadView and MultiView	•/•	•/•	•/•
Bidirectional sound in browser	–	•	•
Logo generator, animated	–	•	•
Master/Slave arming	–	•	•
Several scheduled privacy zones	–	•	•
Customized voice messages	–	•	•
VoIP telephony (audio/video, alert)	–	•	•
Remote alarm notification (network message)	–	•	•
Signal inputs/outputs and RS232 via	–	MX-232-IO-Box	MX-232-IO-Box
Programming interface (HTTP API)	–	•	•
Security Features (HTTPS/S/L, IP-based access control, IEEE 802.1X network authentication)	•	•	•

<b>Video Analysis</b>			
Video motion detector	–	•	•
MxAnalytics	–	–	–
MxActivitySensor	–	•	•

<b>Video Management Software</b>			
MxEasy (Windows/Mac OS X)	•	•	•
MxControlCenter (Windows)	•	•	•
MOBOTIX App (iOS)	•	•	•





*Lens unit*

*Speaker*

*Microphone  
(only Q25M-Sec)*

*R key*

*L key*

*LEDs*

*Slot for MicroSD card  
(not externally accessible)*

*Network connector*

*MiniUSB (e.g. ExtIO)*

*Bayonet catch*

*MxBus (for expansion  
modules)*

(Q25M – Camera housing and connectors, excerpt from the technical documentation)