Technical Specifications

MOBOTIX MOVE 3MP Speed Dome IR Light Camera

The MOBOTIX MOVE 3MP Speed Dome IR Light Camera is much more than just standard: The extremely fast panning and tilt technology with powerful, long-lasting and at the same time energy-saving electric motors obtains the desired results more quickly. Clear images, even at the highest zoom level and under any lighting conditions, are also a part of our Premium PTZ camera's seamless, complete range of features.

- Servo Feedback – No Drifting
- WDR up to 120 dB
- Electronic Image Stabilizer (EIS)
- H.264/H.265/MJPEG Simultaneous Streaming
- IR LEDs (working distance up to 200 m)

- Triple power (UPoE/DC12 V/AC24 V)
- IP66/IK10 (housing only)
- ONVIF Profile S/G/T Support
- Temp. Range –55 to 55 °C/-67 to 131 °F with heater
- 3D Motion Compensated Noise Reduction (MCTF)
- Smart Event Functions

- Text Overlay and Privacy Masks
- Smart Low Bitrate Control
- Triple Stream Support
- RS485 Support
- Up to 40x Optical Zoom
- Auto-tracking

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Remotely Upgradable Firmware

The firmware of the MOBOTIX MOVE 3MP Speed Dome IR Light Camera can be upgraded remotely. This applies to the IP system and the pan/tilt/zoom block. This feature instantly adds new features and greatly reduces maintenance costs.
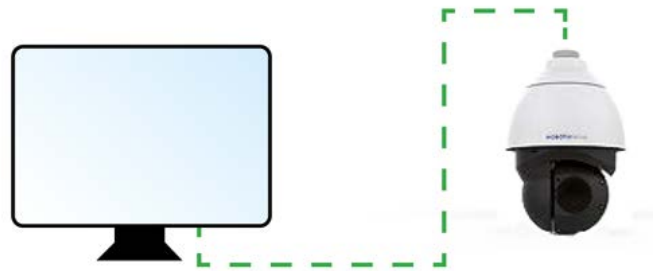
Servo Feedback

The MOBOTIX MOVE 3MP Speed Dome IR Light Camera features **Servo Feedback** technology. When encountering external force, such as vandalism or vibration, the PTZ immediately returns to its original position.

Product Information

Product Name	3MP Speed Dome IR Light Camera
Order Code	Mx-SD1A-340-IR

Image Quality

Image Sensor	3MP 1/2.8" Progressive CMOS
Effective (Used) Pixels	H x V = 2065x1553 (3MP)
Pixel Size	2.5 µm
Frame Rate (maximum)	**WDR on/off:**
	H.265/H.264: 3MP@30 fps
	MJPEG: 1080p@30fps

Lens

Minimum Illumination	Color: 0.04 lux
	B/W: 0.002 lux
Lens Characteristics	Motorized Lens: Zoom, Focus, P-IRIS, Auto-IRIS
	Focal Length: 4.3 to 129 mm
	Aperture: F1.6
	Horizontal Field of View: 63.7° (Wide), 1.7° (Tele)
	Vertical Field of View: 49.2° (Wide), 1.3° (Tele)

Camera

Day/Night	Automatically switchable IR-cut filter
Shutter Time	1 to 1/10000 s
Shutter Priority Mode	Up to 1/45 s
WDR	Up to 120 dB
EIS	Yes
Auto tracking	On/off
Zoom	Optical: 40x, Digital 10x
Image Settings	Color, Brightness, Sharpness, Contrast, White Balance, Exposure Control, 2DNR, 3DNR, NR by Motion, Masking, Text Overlay
Image Rotation	90°, 180°, 270°
Servo Feedback	Yes (see Servo Feedback, p. 2)

Video Codec

Compression/Encoding	H.265/H.264/MJPEG
Streaming	Up to 3 individually configurable streams in H.264/H.265/MJPEG.
	Configurable resolution, frame rate, bandwidth LBR/VBR/CBR in H.265/H.264.

Audio Codec

Compression/Encoding	G.711/G.726/AAC/LPCM
Streaming	Two-way
	Configurable resolution, frame rate, bandwidth LBR/VBR/CBR in H.265/H.264.
Audio Input	Line In
Audio Output	Line Out

Cyber Security Features

Password Protection	Yes
IP address filtering	Yes
IEEE 802.1X network access control	Yes
Digest authentication	Yes
AES encryption for password protection	Yes
SNMP, TLS, HTTP, HTTPS	Yes
User and Group Management	Yes
SSL connections	Yes
VPN	Yes
Digital image signature	Yes
RSA encryption (2048 bits)	Yes

Network

Interface	10/100 Mbps Ethernet
Supported Protocols	ARP, PPPoE, IPv4/v6, ICMP, IGMP, QoS, TCP, UDP, DHCP, UPnP, SNMP, SMTP, RTP, RTSP, HTTP, HTTPS, FTP, NTP, DDNS, SMBv2
ONVIF conformance	Supports profiles S/G/T
Supported Browsers	All current browsers are supported.

System Integration

Base Video Analytics	Motion detection, audio detection
Event Triggers	- External Input - Analytics - Network failure detection - Periodical event - Manual trigger
Event Actions	- External output activation - Video and audio recording to edge storage - File upload: FTP, network share and email - Notification: HTTP, FTP, email

General

Housing material	Metal and plastic
Power Requirements	Forced 4-pair UPoE, max 39.60 W AC24V, max 44.00 W, max 64.90 VA
PoE Modes Supported	**Mode A and Mode B** required
Connectors	- RJ45 4 x Alarm in, 2x Alarm out terminal block - DC 12 V terminal block - AC 24 V terminal block - Audio In terminal block - Audio Out terminal block - CVBS connector (available with max. 2 activated streams) - RS485 terminal block
IR Illumination	850 nm; up to 200 m distance depending on scenery reflection
Video Storage	Micro SD/SDHC/SDXC card support up to 1 TB, Support for recording to NAS, MOBOTIX MOVE NVR
Remotely Upgradable	Yes (see Remotely Upgradable Firmware, p. 2)
Environmental Protection Class	IP66/IK10 (housing only)

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Operating Temperature	–55 to 55 °C/-67 to 131 °F with heater
Relative Humidity	10 to 90 % non-condensing
Storage Conditions	–20 to 70 °C/–4 to 158 °F
Approvals	EMC: CE/FCC,
	Safety: LVD,
	Environmental: IP66
Dimensions	ø 207.4 x 300.4 mm with sun shield
Weight	3400 g

PTZ Features

Preset positions	Up to 256 positions, 1 Home position
Sequences	Up to 8 sequences with 64 preset positions each
Cruise Path	up to 8
Auto pan paths	Up to 4
Display Position	Pan/Tilt degrees can be displayed in live image
Tilt Angle	Between –20° and +100°
Pan Angle	360° endless
Tilt Speed	Manual Tilt Speed: 0.1°–60°/s;
	Preset Tilt Speed: 7°–300°/s
Pan Speed	Preset up to 400°/s
Joystick/Keyport Control	RS485 protocols DSCP, Pelco-D and Pelco-P

NOTE! Observe the MOBOTIX MOVE Installation Hints document to ensure optimum performance of the camera features.

Accessories

Picture	Order Code	Description
	Mx-M-SD-C	Corner Mount for MOBOTIX MOVE SpeedDome models (only in combination with SpeedDome Wall Mount Mx-M-SD-W/WM)
	Mx-M-SD-GN	Parapet Mount (Gooseneck) with integrated junction box for MOBOTIX MOVE SpeedDome models
	Mx-M-SD-P	Pole Mount for MOBOTIX MOVE SpeedDome models (only in combination with SpeedDome Wall Mount Mx-M-SD-W/WM)
	Mx-M-SD-PM	Pendant Mount Kit 25 cm for MOBOTIX MOVE SpeedDome models
	Mx-M-SD-PMEXT	Pendant mount extension 25 cm for use with Pendant Mount Kit Mx-M-SD-PM
	Mx-M-SD-W	Wall Mount for MOBOTIX MOVE SpeedDome models; can be combined with Pole Mount Mx-M-SD-P or Corner Mount Mx-M-SD-C
	Mx-M-SD-WM	Wall Mount with room for optional junction box Mx-M-SD-WMJB for MOBOTIX MOVE SpeedDome models
	Mx-M-SD-WMJB	Wall Mount Junction Box for MOBOTIX MOVE SpeedDome models

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Picture	Order Code	Description
	Mx-NPA-UPOE1A-60W	UPoE Network Power Injector 60 W
	Mx-A-ETP1A-2601-SET	Media Converter Set Ethernet (PoE+) – Twisted-Pair

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!
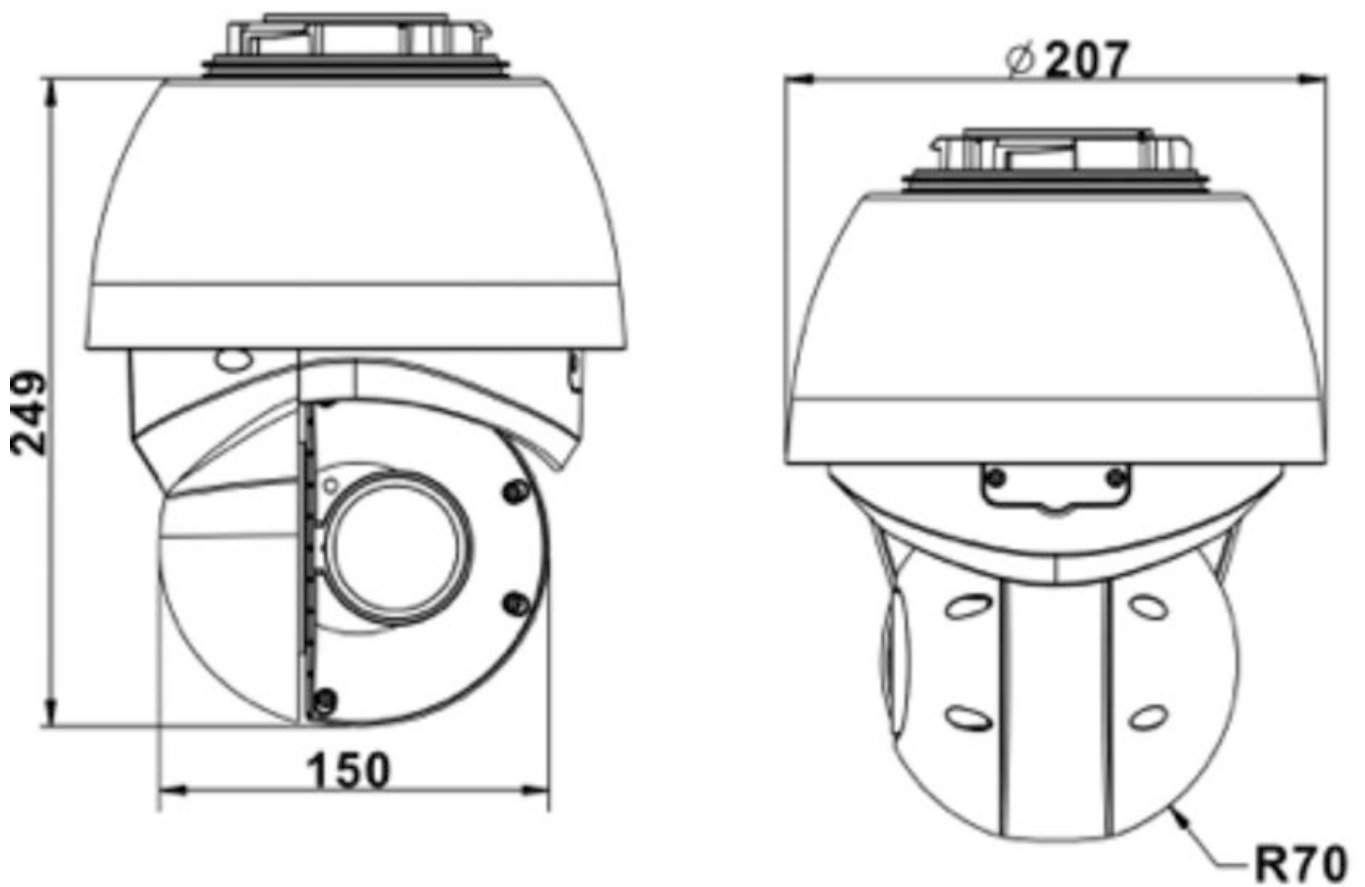
Fig. 1: 3MP Speed Dome IR Light Camera: All measurements in mm

Further Reading

Manuals and Quick Installation documents	
Technical Specifications	
MOBOTIX MOVE Installation Hints	

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