



# Technical Specifications

## MOBOTIX MOVE Vandal Multisensor PTZ Combo 20MP Video Analytics Camera

The MOBOTIX MOVE Vandal Multisensor PTZ Combo 20MP Video Analytics Camera incorporates four 5MP fixed-lens sensors plus one 2MP (1080p) PTZ network camera with remote-controlled 21x zoom/focus lens for optimum positioning and alignment to the application needs. The camera provides four individual video-streams plus a combined stream of all four video streams for undistorted 360° views, making it ideally suited for surveillance of large areas or road intersections. Multiple sensor modules and the integrated AI-VMD analytics features enable the detection of vehicles and motion, as well as object tracking via the motorized PTZ unit.

- 4 x 5MP multi-directional camera + 2MP (1080p) 21x PTZ camera
- Fixed-focus lens 3.2 mm (<Multisensor>) and 21x motorized zoom/focus lens 4.0 to 84.6 mm (<PTZ>)
- WDR up to 144 dB
- Quad streaming H.264/H.265/MJPEG
- Intelligent encoding, smart low-bitrate control
- MOBOTIX MxMessageSystem
- ONVIF Profile S/G/T/M support
- Integrated AI-VMD analytics
- microSD/SDHC/SDXC card support up to 512 GB
- Audio Line In/Out
- PoE++ (IEEE802.3bt compliant) DC54 V: max. 35.6 W
- Operating temperature range -40 to 55 °C/-40 to 131 °F
- Outdoor protection rate IP66, IP67, IK10
- NDA and NEMA 4x compliant
- Built-in FIPS 140-2 Level 3-certified TPM hardware/firmware



Beyond Human Vision

**MOBOTIX** MOVE

Technical Specifications

MOBOTIX MOVE Vandal Multisensor PTZ Combo 20MP Video Analytics Camera

Product Information

|              |                                                          |
|--------------|----------------------------------------------------------|
| Product Name | Vandal Multisensor PTZ Combo 20MP Video Analytics Camera |
| Order Code   | Mx-VMSD1A-2021-VA                                        |

Hardware Design

|                         |                                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Processor               | <Multisensor>: Ambarella CV2 (Quad-core ARM® Cortex®-A53, 1 GHz)<br><PTZ>: Ambarella CV25m (Quad-core ARM® Cortex®-A53, 1 GHz) |
| Memory                  | RAM: 1 GB<br>FLASH: 256 MB                                                                                                     |
| Image Sensors           | <Multisensor>: 4 x 5MP 1/2.7” Progressive CMOS<br><PTZ>: 1 x 2MP (1080p) 1/2.8” Progressive CMOS                               |
| Effective (Used) Pixels | <Multisensor>: 2560x1920 (5MP) (per image sensor)<br><PTZ>: 1920x1080 (2MP)                                                    |

Lens

|                      |                                                                                                                                                                                                                                                                                               |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Optical Zoom         | <Multisensor>: 1x<br><PTZ>: 21x (motorized zoom/motorized focus)                                                                                                                                                                                                                              |
| Digital Zoom         | <Multisensor>: max. 4x (resolution 640x360)<br><PTZ>: max. 31x (resolution 1280x720)                                                                                                                                                                                                          |
| Minimum Illumination | <b>&lt;Multisensor&gt;</b><br>Color: 0.12 lx (30IRE, F2.0, 1/30 s)<br>Color: 0.17 lx (50IRE, F2.0, 1/30 s)<br>BW: 0.10 lx (50IRE, F2.0, 1/30 s)<br><b>&lt;PTZ&gt;</b><br>Color: 0.011 lx (30IRE, F1.6, 1/30 s)<br>Color: 0.015 lx (50IRE, F1.6, 1/30 s)<br>BW: 0.006 lx (50IRE, F1.6, 1/30 s) |

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|                  |                                       |
|------------------|---------------------------------------|
| Focus Adjustment | <Multisensor>: –<br><PTZ>: Auto focus |
|------------------|---------------------------------------|

|                                            |                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Lens Characteristics<br>(per image sensor) | <b>&lt;Multisensor&gt;</b><br>Focal length: 3.2 mm<br>Aperture: F1.6<br>Field of view: horizontal 97°, vertical 71°<br>Focus range: 1 m/3.28 ft to ∞<br><b>&lt;PTZ&gt;</b><br>21x motorized lens: zoom, focus<br>Focal length: 4.0 to 84.6 mm<br>Aperture: F1.6 (wide), F4.5 (tele)<br>Field of view: horizontal 3.7 to 77°, vertical 2.2 to 44°<br>Focus range: 1.5 m/4.92 ft to ∞ |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Camera

|               |                                                                                     |
|---------------|-------------------------------------------------------------------------------------|
| Shutter Speed | <Multisensor>: 15 fps: 1/10000s to 16/30s<br><PTZ>: 15/30/60 fps: 1/4000s to 16/30s |
|---------------|-------------------------------------------------------------------------------------|

|                       |             |
|-----------------------|-------------|
| Shutter Priority Mode | Up to 1/45s |
|-----------------------|-------------|

|                       |                                                                                                                                                              |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frame Rates (maximum) | <b>&lt;Multisensor&gt;</b><br>H.265/H.264: 5MP@15 fps<br>MJPEG: 1080p@15 fps<br><b>&lt;PTZ&gt;</b><br>H.265/H.264: 2MP (1080p)@60 fps<br>MJPEG: 1080p@60 fps |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|

|           |                                                 |
|-----------|-------------------------------------------------|
| Auto Gain | Min. gain: 0 dB, max. gain: 11 dB, step size: 1 |
|-----------|-------------------------------------------------|

|     |                                                  |
|-----|--------------------------------------------------|
| WDR | <Multisensor>: 108 dB max.<br><PTZ>: 144 dB max. |
|-----|--------------------------------------------------|

|               |               |
|---------------|---------------|
| White Balance | ATW1/ATW2/AWC |
|---------------|---------------|

|                                    |                                                                                                                 |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Back Light/High Light Compensation | BLC (Back light compensation)/HLC (High light compensation)/Off (only when Super Dynamic/Intelligent Auto: Off) |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------|

|                  |                                                               |
|------------------|---------------------------------------------------------------|
| Fog Compensation | On/Off (only when Intelligent Auto/Auto Contrast Adjust: Off) |
|------------------|---------------------------------------------------------------|

|                    |               |
|--------------------|---------------|
| Maximum Gain (AGC) | Level 0 to 11 |
|--------------------|---------------|

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|                         |                                                                                                                                                                                              |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Color/BW (ICR)          | Off/On/Auto1(Normal)/Auto2(IR Light)/Auto3(SCC)                                                                                                                                              |
| Digital Noise Reduction | Level 0 to 255                                                                                                                                                                               |
| Image Rotation          | 180°                                                                                                                                                                                         |
| Adjusting Angles        | <b>&lt;Multisensor&gt; Camera 1,2,3,4:</b><br>Vertical: 40 ±7° (adjust by vertical (TILT) angle)<br><b>&lt;PTZ&gt;</b><br>Horizontal: 360° endless panning<br>Vertical: -15 to +195°/Yaw: 0° |

PTZ Features (<PTZ> Only)

|                  |                                                                        |
|------------------|------------------------------------------------------------------------|
| Preset Positions | 256                                                                    |
| Auto Mode        | Auto track/Auto pan/Preset sequence/Patrol                             |
| Auto Return      | 10 s/20 s/30 s/1 min/2 min/3 min/5 min/10 min/20 min/30 min/60 min     |
| Pan Range        | 360° endless                                                           |
| Tilt Range       | -15° to +195°                                                          |
| Pan Speed        | Manual Pan Speed: 0.065° to 150°/s<br>Preset Pan Speed: Up to 500°/s   |
| Tilt Speed       | Manual Tilt Speed: 0.065° to 150°/s<br>Preset Tilt Speed: Up to 500°/s |

Video Codec

|                      |                                                                                                                                                                       |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Compression/Encoding | H.265/H.264/MJPEG                                                                                                                                                     |
| Streaming            | Up to 4 individually configurable streams for MS and 1 combined stream in H.264/H.265/MJPEG<br>Configurable resolution, frame rate, bandwidth CBR/VBR in H.265/H.264. |

Audio Codec

|                      |                    |
|----------------------|--------------------|
| Compression/Encoding | G.711/G.726/AAC-LC |
| Streaming            | Bi-directional     |

## MOBOTIX MOVE Vandal Multisensor PTZ Combo 20MP Video Analytics Camera

|              |                         |
|--------------|-------------------------|
| Audio Input  | 3.5 mm stereo mini jack |
| Audio Output | 3.5 mm stereo mini jack |

### Cyber Security Features

|                                        |                                                                                                                                                                                      |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Password Protection                    | Yes                                                                                                                                                                                  |
| IEEE 802.1X network access control     | Yes (for advanced network security and authentication)                                                                                                                               |
| Digest authentication                  | Yes (for secure user authentication)                                                                                                                                                 |
| FIPS 140-2 Level 3                     | Yes (NXP® EdgeLock® SE050F Trusted Platform Module: Certificate #3840)<br>Security Level Exceptions:<br><ul style="list-style-type: none"> <li>Physical Security: Level 4</li> </ul> |
| Secure Boot                            | Yes (support of fixed IP setting and automatic DHCP IP configuration according to individual MAC address)                                                                            |
| AES encryption for password protection | Yes (to ensure strong encryption for password storage)                                                                                                                               |
| HTTPS/SSL (using TLS)                  | Yes                                                                                                                                                                                  |
| Digital Certificate                    | Yes, GlobalSign® device certificate pre-installed                                                                                                                                    |
| User Authentication                    | Yes                                                                                                                                                                                  |
| Host Authentication                    | Yes                                                                                                                                                                                  |
| Alteration Detection                   | Yes                                                                                                                                                                                  |

### Network

|                     |                                                                                                         |
|---------------------|---------------------------------------------------------------------------------------------------------|
| Interface           | 10/100/1000 Mbps Ethernet                                                                               |
| Supported Protocols | ARP, IPv6, ICMP, TCP, UDP, DHCPv6, SNMP, SMTP, RTP, HTTP, HTTPS, NTP, DNS, LLDP, MQTT, IEEE 802.1X, MLD |
| ONVIF Conformance   | Supports profiles S/G/T/M                                                                               |
| Supported Browsers  | Microsoft Edge, Firefox, Google Chrome                                                                  |
| Concurrent Users    | <Multisensor>: 24 (depending on network load)<br><PTZ>: 14 (depending on network load)                  |

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System Integration

|                              |                                                                                                                                                                                                                                                                                                                      |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Video Motion Detection (VMD) | On/Off, up to 4 areas                                                                                                                                                                                                                                                                                                |
| Scene Change Detection (SCD) | On/Off, up to 1 area                                                                                                                                                                                                                                                                                                 |
| Audio Detection              | On/Off                                                                                                                                                                                                                                                                                                               |
| AI Sound Classification      | Selectable from Gunshot, Yell, Vehicle horn, Glass break                                                                                                                                                                                                                                                             |
| AI Analytics                 | <div><div></div><div><ul style="list-style-type: none"><li>AI Video Motion Detection</li><li>AI Privacy Guard</li><li>AI Face Detection</li><li>AI People Detection</li><li>AI Vehicle Detection</li><li>AI No-mask Detection</li><li>AI Occupancy Detection</li><li>AI Scene Change Detection</li></ul></div></div> |
| Alarm Sources                | 3 input pins, VMD alarm, SCD alarm, Command alarm, Audio detection alarm                                                                                                                                                                                                                                             |
| Alarm Actions                | SD card recording, E-mail notification, HTTP alarm notification, Indication on browser, TCP alarm notification                                                                                                                                                                                                       |
| Privacy Zones                | <Multisensor>: On/Off, up to 8 zones<br><PTZ>: On/Off, up to 32 zones                                                                                                                                                                                                                                                |
| VIQS                         | <Multisensor>: On/Off, up to 8 zones<br><PTZ>: On/Off, up to 8 zones                                                                                                                                                                                                                                                 |
| Camera Title (OSD)           | On/Off, up to 40 characters, up to 2 Lines (alphanumeric and special characters)                                                                                                                                                                                                                                     |

General

|                   |                                                                                                                                            |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Housing Materials | Main body: Aluminum die cast, white<br>Outer fixing screws: stainless steel (corrosion-resistant treatment)<br>Dome cover: PC resin, clear |
| Housing Color     | RAL 9003                                                                                                                                   |

## MOBOTIX MOVE Vandal Multisensor PTZ Combo 20MP Video Analytics Camera

|                                |                                                                                                                                                                                                                                                                |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power Requirements             | PoE++ (IEEE802.3bt compliant):<br>DC 54 V: 0.66 A/max. 35.6 W (Class 5 device)                                                                                                                                                                                 |
| Connectors                     | <ul style="list-style-type: none"> <li>■ Network: 10 BASE-T/100 BASE-T/1000 BASE-T, RJ45 connector</li> <li>■ Audio input: 3.5 mm stereo mini jack</li> <li>■ Audio output: 3.5 mm stereo mini jack</li> <li>■ Alarm I/O: 3x Alarm in, 2x Alarm out</li> </ul> |
| Video Storage                  | microSD SDHC/SDXC card support up to 512 GB<br>Support for recording to NAS, MOBOTIX HUB, MOBOTIX MOVE NVR                                                                                                                                                     |
| Remotely Upgradable            | Yes                                                                                                                                                                                                                                                            |
| Environmental Protection Class | IP66, IP67/IK10, Type 4X (UL50E), NEMA 4X-compliant                                                                                                                                                                                                            |
| Operating Temperature          | –40 to +55 °C/–40 to 131 °F (Power On range: –20 to +55 °C/–4 °F to 131°F)<br>Maximum temperature according to NEMA TS 2 (2.2.7): 74°C/165°F                                                                                                                   |
| Relative Humidity              | 10 to 100 % non-condensing (using Temish element to protect against condensation)                                                                                                                                                                              |
| Approvals                      | EMC: FCC (Part15 ClassA), ICES-003 ClassA, EN55032 ClassA, EN55024<br>Safety: UL (UL62368-1), c-UL (CSA C22.2 No.62368-1), CE, IEC62368-1<br>IT Security: FIPS 140-2 Level 3-certified (using certified TPM chipset)                                           |
| Other Supported Standards      | NEMA TS 2 (2.2.7-2.2.9)                                                                                                                                                                                                                                        |
| Warranty                       | 5 years; mechanically wearable parts (motor, gears, belts, etc.) excluded                                                                                                                                                                                      |
| Dimensions                     | ø 250 x 195 mm                                                                                                                                                                                                                                                 |
| Weight                         | 3800 g                                                                                                                                                                                                                                                         |

**NOTE!** Observe the [MOBOTIX MOVE Installation Hints](#) document to ensure optimum performance of the camera features.

# DORI Specifications

In the video surveillance context, “DORI” stands for Detection, Observation, Recognition and Identification and is based on IEC EN62676-4: 2015. These levels define the minimum pixels that a face of a person must have to provide proper identification, for example.

## DORI Levels According to IEC EN62676-4: 2015

These levels define the minimum pixels that a face of a person must have to provide proper identification, for example.

- **Detection:** Up to this distance, you can reliably determine if a person or vehicle is present.
- **Observation:** Up to this distance, you can see characteristic details of an individual, such as distinctive clothing.
- **Recognition:** Up to this distance, you can determine with a high degree of certainty whether an individual is the same as someone that has been seen before.
- **Identification:** Up to this distance, you can determine the identity of an individual beyond reasonable doubt.

# DORI Distances

## Multisensor Cameras

| DORI Level        | Detection       | Observation    | Recognition   | Identification |
|-------------------|-----------------|----------------|---------------|----------------|
| Mx-VMSD1A-2021-VA | 45.3 m/148.6 ft | 18.1 m/59.4 ft | 9.1 m/29.7 ft | 4.5 m/14.9 ft  |

## PTZ Camera

| DORI Level<br>Order Code: | Detection        |                     | Observation     |                    | Recognition    |                   | Identification |                   |
|---------------------------|------------------|---------------------|-----------------|--------------------|----------------|-------------------|----------------|-------------------|
|                           | Wide-Angle       | Tele                | Wide-Angle      | Tele               | Wide-Angle     | Tele              | Wide-Angle     | Tele              |
| Mx-VMSD1A-2021-VA         | 48.3 m/ 158.4 ft | 1188.9 m/ 3900.5 ft | 19.3 m/ 63.4 ft | 475.5 m/ 1560.2 ft | 9.7 m/ 31.7 ft | 237.8 m/ 780.1 ft | 4.8 m/ 15.8 ft | 118.9 m/ 390.0 ft |

## Dimensions

**NOTE!** Download the drilling template from the section or on the MOBOTIX website: [www.mobotix.com](http://www.mobotix.com) > [Support > Download Center > Marketing & Documentation > Drilling Templates](#).

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

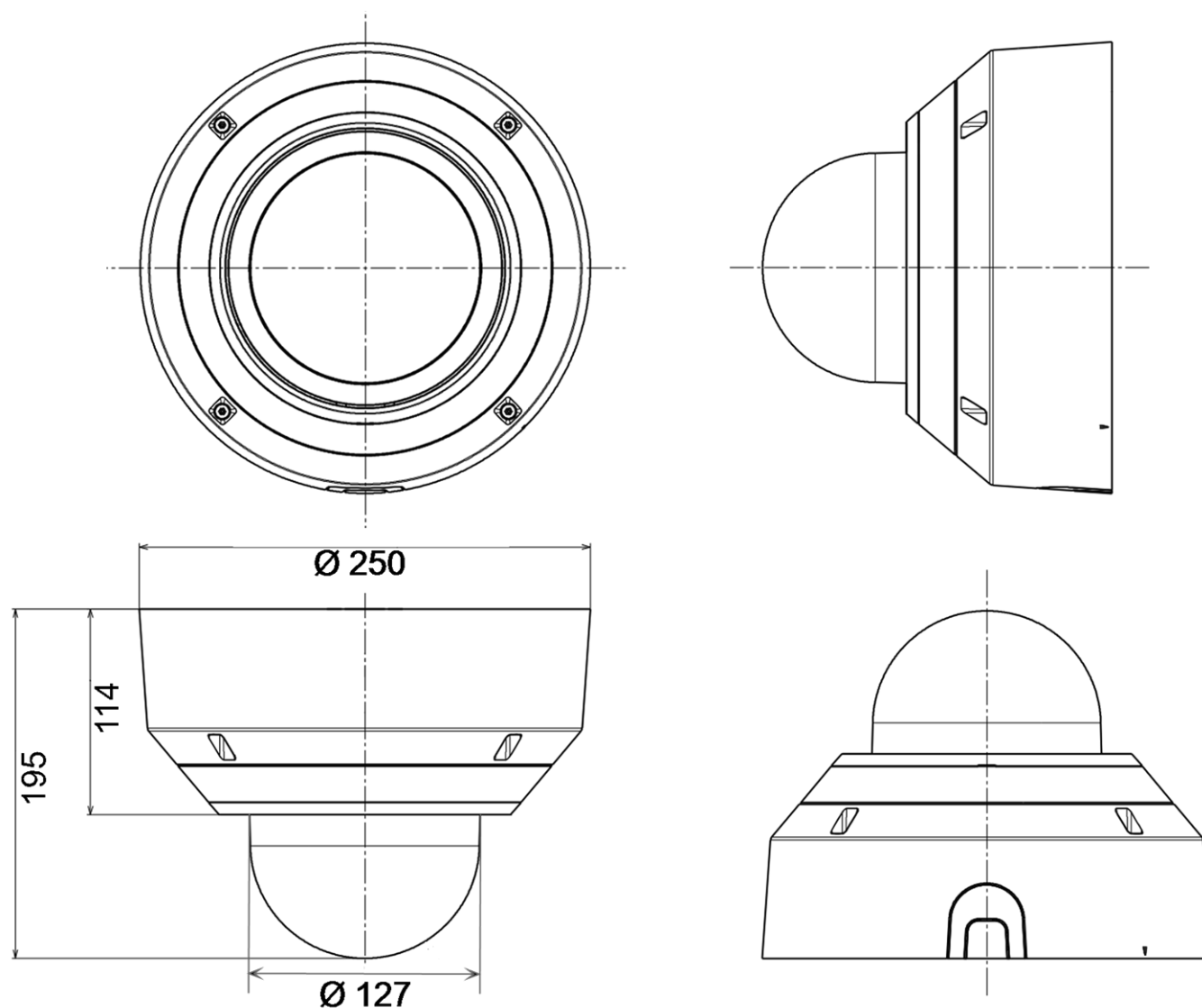
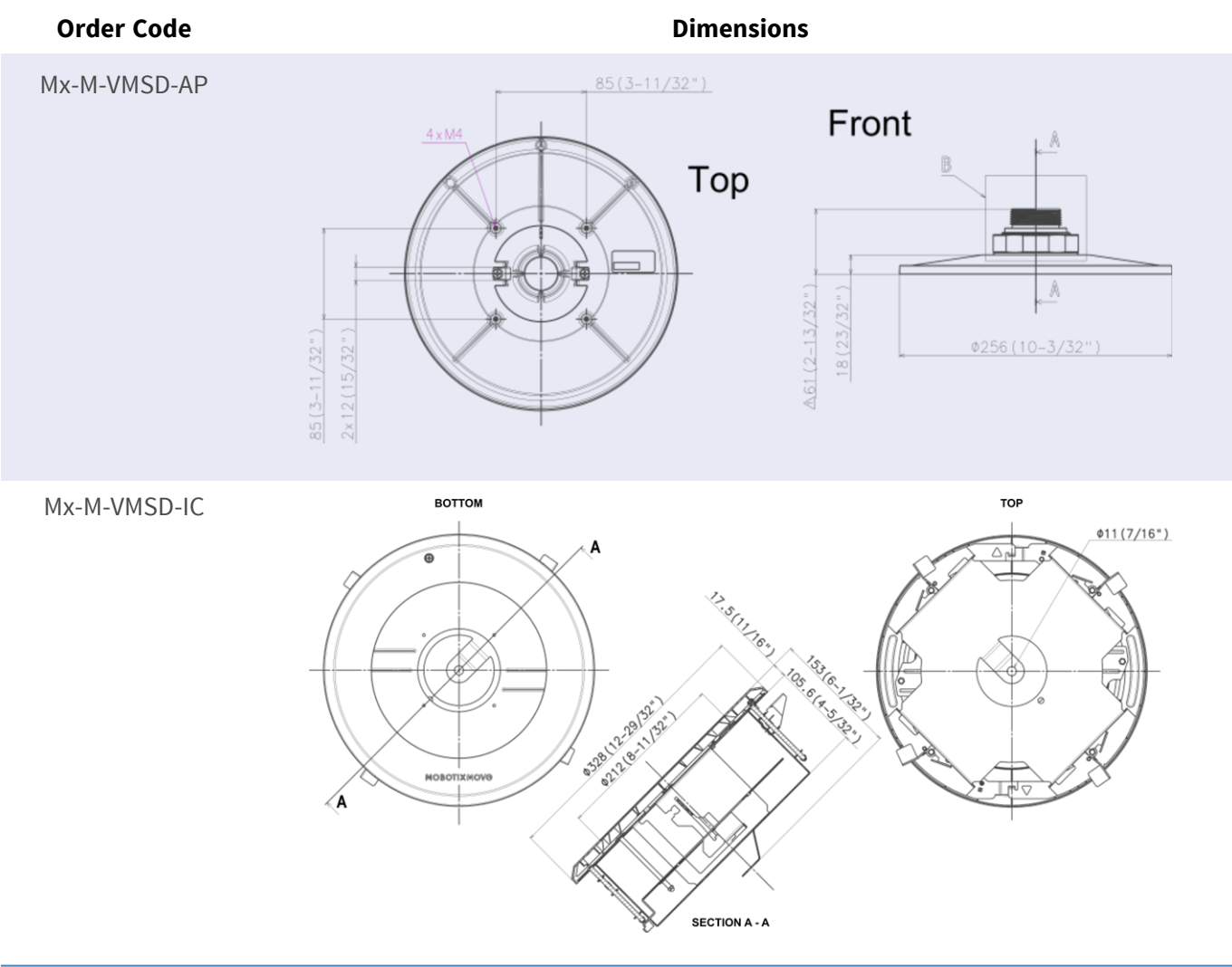


Fig. 1: Mx-VMSD1A-2021-VA: All measurements in mm

# Accessories for Multisensor Cameras

| Picture/<br>Order Code                                                                                  | Description                                                                                     | Compatible<br>Products                                                                                                                                        | Material/<br>Color                                    | Weight  |
|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|---------|
|  <p>Mx-M-VMSD-AP</p>   | Adapter mounting plate for MOVE Vandal Multisensor PTZ Combo camera Mx-M-VMSD-2021-VA.          | MOVE Vandal Multisensor PTZ Combo camera Mx-M-VMSD-2021-VA.<br>Can be combined with MX-M-SD-GN, MX-M-SD-PM, MX-M-SD-PMEXT, Mx-M-SD-W, Mx-M-SD-WL, Mx-M-SD-WM. | Die-cast ADC12 aluminium alloy, powder-coated RAL9003 | 1.57 kg |
|  <p>Mx-M-VMSD-IC</p> | Indoor in-ceiling mount for MOBOTIX MOVE Vandal Multisensor PTZ Combo camera Mx-M-VMSD-2021-VA. | MOVE Vandal Multisensor PTZ Combo camera Mx-M-VMSD-2021-VA.                                                                                                   | Die-cast ADC12 aluminium alloy, powder-coated RAL9003 | 3.5 kg  |

Dimensions



All measurements in mm.

## Accessories for All Cameras

| Picture/<br>Order Code                                                                                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Compatible<br>Products                     | Material/<br>Color     | Weight   |
|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|------------------------|----------|
|  <p>MX-NPA-UPOE1A-60W</p>    | <p>UPoE Power Injector 60W. PoE++ 60W Network Power injector • AC Input Voltage: 100 to 240 VAC (50 to 60Hz) • AC Input Current: 1.5A @100-240 VAC • Operating Ambient Temperature: • -10° to 40°C @60W • -10° to 50°C, humidity 10 to 90% @30W • IEEE 802.3bt compliant • Output power of 60W over 4-pairs • Supports 10/100/1000Base-T applications • Plug-and-play installation • Full Protection OVP, OCP• Supports 10/100/1000Base-T applications.</p> | All cameras.                               | Plastic housing, black | 0.45 kg  |
|  <p>Mx-A-ETP1A-2601-SET</p> | <p>Media converter set Ethernet (PoE+) – Twisted-Pair. Complete set consisting of two two-wire transmit/receive units for establishing an Ethernet transmission path via twisted-pair cables. • Transmission of Ethernet and PoE+ power supply via two-wire line according to IEEE1901. • Simple connection of 10/100 Mbps Ethernet end devices •</p>                                                                                                       | All cameras. Requires Mx-A-ETP1A-2601-POW. | Plastic housing, black | 0.368 kg |

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| Picture/<br>Order Code | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Compatible<br>Products | Material/<br>Color | Weight |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------|--------|
|                        | Max. 95 Mbps transmission bandwidth, range up to 600 m/656 yd for data only, 300 m/328 yd for PoE depending on the quality of the twisted-pair link • 128 bit AES network data encryption • Power supply 2-wire transmitter (Tx) and receiver (Rx) as well as end device via PoE+ network switch or external power supply 56VDC / 1.2A (not included!) • Connected end devices are supplied via PoE switch IEEE802.3af(PoE), IEEE802.3at (PoE+), UPoE up to 60W (requires ext. power supply unit). • Status LEDs (data, power supply, data link, PoE) • Integrated Overvoltage protection (IEC 61000-4-5 4kV (1.2 / 50us), 2kA(8 / 20us)) • Power Supply: TX: T-Linx or DC12V~57V, RX: PoE Switch or DC48V~57V • Operational temperature: -20 to 60°C • Dimensions: 80.4(L) x 61.6(W) x 24(H)mm • Weight: RX/TX: 102g • Warranty: 2 years |                        |                    |        |

**MOBOTIX MOVE Vandal Multisensor PTZ Combo 20MP Video Analytics Camera**

| Picture/<br>Order Code                                                                                       | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Compatible<br>Products                                                                | Material/<br>Color     | Weight  |
|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------|---------|
|  <p>Mx-A-ETP1A-2601-POW</p> | <p>Plug-type power supply for Mx-A-ETP1A-2601-SET.</p> <p>Output: 57V DC +/-3% / 1.2 A •</p> <p>Input: 90-260V AC (47-63Hz) •</p> <p>68,4 Watt • Operating Temperature: 0–40°C/32–122°F</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Mx-A-ETP1A-2601-SET                                                                   | Plastic housing, black | 0.49 kg |
|  <p>Mx-A-KBD1A-PTZ-JOG</p> | <p>MOBOTIX USB Keyboard with PTZ Joystick &amp; Jog-Shuttle.</p> <p>USB control panel for operating MOBOTIX MxMC 2.6 and higher and MOBOTIX HUB incl. Control of software PTZ and motorized PTZ cameras and pan/tilt devices • Integrated 3-axis joystick • Integrated jog shuttle • 38 control keys with backlight pre-defined for MxMC functions or freely definable for MOBOTIX HUB • Integrated alarm buzzer • Suitable for operation as HID device on MOBOTIX VMS with Windows and MAC based operating systems via USB 2.0 • Suitable for right- and left-handed users • Power supply: USB, max. 350 mA • Operating temperature: 0°–45°C/32–113 °F.</p> | <p>All cameras.</p> <p>Requires Windows or macOS computer with USB 2.0 or better.</p> | Plastic housing, black | 1.9 kg  |

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| Picture/<br>Order Code                                                                                      | Description                                                                                                                                                                                                                                                                                                                                                                                         | Compatible<br>Products | Material/<br>Color    | Weight  |
|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------|---------|
| <div><br/>MX-SWITCH1</div> | <p>MOBOTIX network switch for DIN (top-hat) rail mounting.</p> <p>5x RJ45 port with 100 MBit/s (1x uplink, 4x PoE+ with max. 75 W). Supply: 48 V DC, max. 75 W. Simplified cabling for door stations due to available connectivity for anti-theft protection, door opener and MxBus. MxBus, anti-theft protection, door and lock contact can be connected via separate wires of Ethernet cable.</p> | All cameras.           | Plastic housing, gray | 0.31 kg |

## Further Reading

[Manuals and Quick Installation documents](#)



[Technical Specifications](#)



[MOBOTIX MOVE Installation Hints](#)



[MOBOTIX Community](#)





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