

Technical Specifications



MOBOTIX M16A Thermal/M16A Thermal TR

Twice As Secure. Even In Total Darkness.

The intelligent video system with an integrated high-performance thermal image sensor takes full advantage of the M16A camera design. Thanks to the two directly adjacent lenses, there is also a thermal overlay function with image overlay (thermal and optical) to pinpoint the exact location of hotspots like smoldering fires in a visible image. The MOBOTIX TR cameras feature a calibrated thermal image sensor. Thermal radiation measurements made across the entire image area can be used to trigger an event based on the temperature increasing above or decreasing below an individually set trigger level (camera alarm, network message, activation of a signal output etc.).

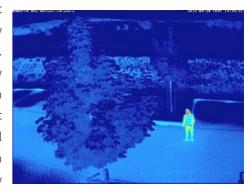
- Mx6 system platform with H.264 and ONVIF compatibility
- Fixed premium thermal image sensor with an NETD of 50 mK
- Thermal Radiometry For measurable added value: calibrated thermal image sensor
- Thermal field of view: 45°, 25° or 17°
- Additional image sensor module options
- Recording on an internal MicroSD card (4GB as standard)
- Integrated microphone and speaker
- MxActivitySensor can also be used in total darkness
- PoE thermal camera with a power consumption of < 10 W



General Product Information

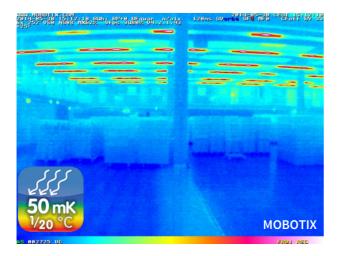
Basic Information On Thermal Imaging Technology

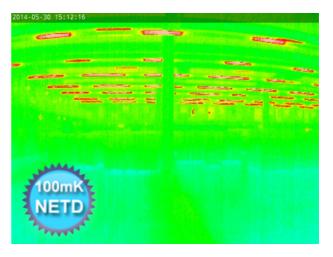
Thermal imaging technology is a contactless imaging procedure that makes it possible to see the thermal radiation from an object or body otherwise invisible to the human eye (mid-wavelength infrared). Thermal radiation is electromagnetic radiation emitted by a body based on its temperature. It is caused by thermal motion within a body's molecules. This is the result of accelerated charges that emit radiation in accordance with the laws of electrodynamics. Thermal imaging technology captures and displays temperature distribution across surfaces and objects. Thermographic cameras usually display heat intensity information in artificial colors (blue = cooler, red =



warmer). In terms of the number of pixels, the resolution is considerably lower than that for cameras capturing the visible spectral range.

Unlike cameras with optical image sensors, one of the decisive quality criteria for a thermal camera is the camera's ability to capture the slightest differences in temperature and to produce an image that displays these differences in colors. The NETD, or Noise Equivalent Temperature Difference, is used to measure the sensitivity of a thermal sensor and is expressed in millikelvin. With an NETD of 50 mK, MOBOTIX thermal cameras can visualize temperature variations starting at 0.05°C, which places them in the top range of cameras currently available for general use.





Thanks to an NETD of 50 mK, the MOBOTIX thermal image (left) shows significantly more details than a competitor's less powerful thermographic camera with an NETD of 100 mK (right).

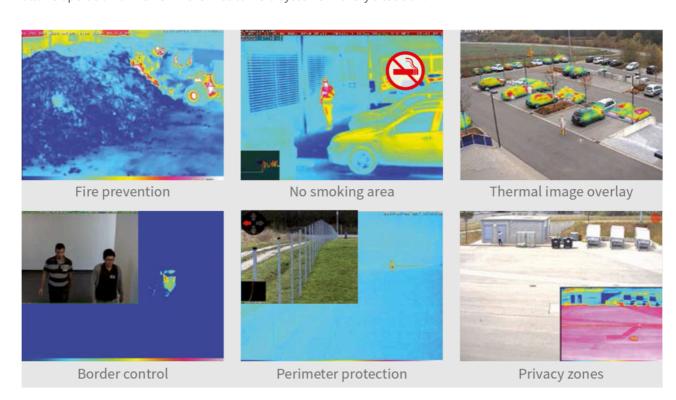
Respecting Privacy

The detected thermal profile of a thermal camera shows no identifiable details for identification of persons and can therefore guarantee privacy. As soon as an object is moving into the relevant surveillance area, MOBOTIX dual camera system can automatically switch from thermal sensor to the optical sensor, producing visible high resolution video. This unique MOBOTIX feature combines two aspects, respecting the privacy aspect and at the same time optimal video surveillance.



Temperature Events And Thermal Overlay

Thermal radiometry (TR) cameras from MOBOTIX generate automatic alarms, defined by temperature limits or temperature ranges, which is vital to detect potential fire or heat sources. Up to 20 different temperature triggers can be defined at the same time within so-called TR (Thermal Radiometry) windows or the whole sensor image can be used over the temperature range of -40 to +550 °C. In this way critical situations can be analyzed in the control room in order to plan the next steps for effective fire prevention. Critical assets like emergency generators, wind turbines or radio stations can be cost-effectively maintained and tested remotely. MOBOTIX thermal dual camera systems offer thermal overlay to localize so-called hot spots in the visual image to prevent larger damage. The standard Power-over-Ethernet (PoE) compatibility and the extremely low power consumption of only 6 watts allows operation of MOBOTIX thermal camera systems in every situation.



PLEASE NOTE - Special Export Regulations For Thermographic Cameras

Cameras with thermographic image sensors ("thermographic cameras") are subject to special U.S. and ITAR (International Traffic in Arms Regulation) export regulations:

According to currently valid export regulations from the U.S. and ITAR, cameras with thermographic image sensors or their component parts cannot be exported to countries that have been embargoed by the U.S./ITAR. The corresponding delivery ban also applies to all individuals and institutions included on "The Denied Persons List" (see www.bis.doc.gov under Policy Guidance > Lists of Parties of Concern). These cameras and their installed thermographic image sensors are not to be used for the design, development, or production of nuclear, biological or chemical weapons or installed in these systems.

Link to the Thermal End User Statement on MOBOTIX Website



| Camera Variants | M16A Thermal | M16A Thermal TR |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Specialties | IP Thermografic camera with/without Thermal Radiometry technology (TR) and Germanium lens (3 different image angles available); can be optionally equipped with a second optical 6MP sensor module (day/color or night/black and white to be ordered separately for easy self-assembly) | |
| Main Differences | Temperature measurement only in the center of the image (Thermal Spot, 2x2 pixels), accuracy up to +/- 20°C | TR temperature measurement of each pixel in the whole image area, up to 20 independant temperature events, accuracy up to +/-10°C |
| Thermal Lenses/Sensors, 50 mK, 336 x 252 (Factory-Assembled) | M16A Thermal | M16A Thermal TR |
| Thermal sensor, horiz./vert. image angle 45°/32 | Mx-M16TA-T079 | - |
| Thermal sensor, horiz./vert. image angle 25°/19° | Mx-M16TA-T119 | - |
| Thermal sensor, horiz./vert. image angle 17°/13° | Mx-M16TA-T237 | - |
| Calibrated Thermal sensor TR/Thermal Radiometry, horiz./vert. image angle $45^{\circ}\!/32$ | - | Mx-M16TA-R079 |
| Calibrated Thermal sensor TR/Thermal Radiometry, horiz./vert. image angle $25^{\circ}\!/19^{\circ}$ | - | Mx-M16TA-R119 |
| Calibrated Thermal sensor TR/Thermal Radiometry, horiz./vert. image angle $17^{\circ}/13^{\circ}$ | - | Mx-M16TA-R237 |
| Thermal image sensor | Uncooled microbolometer with 336 x 252 pixes, IR range 7,5 to 13,5 μ m | |
| Sensitivity NETD (thermal resolution) | Typ. 50 mK, < 79 mK (50 mK is equal to temperature changes of 0,05°C) | |
| Thermal image representation | False colors or black and white | |
| Temperature measuring range (adjustable) | High Sensitivity: -40 to 160°C/-40 to 320°F – Low Sensitivity: -40 to 550°C/-40 to 1022°F | |
| Temperature measuring method (via camera) | In the center of the image (2x2 pixels) | Complete image areas (customizable temperature measuremnt windows) |
| Max. accuracy of temperature measurement | +/- 20°C | +/- 10°C |
| Optical Lenses/Sensors, 6MP, 3072 x 2048 | | |
| (Available With Optional Sensor Module) | M16A Thermal | M16A Thermal TR |
| | Day/Color: Mx- Night/Black&White: | M16A Thermal TR O-SMA-S-6D016 Mx-O-SMA-S-6N016 Mx-O-SMA-S-6L016 |
| (Available With Optional Sensor Module) Sensor module with Fisheye Lens B016 (180° x 180°), | Day/Color: Mx- Night/Black&White: LPF/Black&White: Day/Color: Mx- Night/Black&White: | O-SMA-S-6D016 Mx-O-SMA-S-6N016 |
| (Available With Optional Sensor Module) Sensor module with Fisheye Lens B016 (180° x 180°), night version optionally with long-pass filter (LPF) Sensor module with Ultra Wide Lens B036 (103° x | Day/Color: Mx- Night/Black&White: LPF/Black&White: Day/Color: Mx- Night/Black&White: LPF/Black&White: Day/Color: Mx- Night/Black&White: | O-SMA-S-6D016 Mx-O-SMA-S-6N016 Mx-O-SMA-S-6L016 O-SMA-S-6D036 Mx-O-SMA-S-6N036 |
| (Available With Optional Sensor Module) Sensor module with Fisheye Lens B016 (180° x 180°), night version optionally with long-pass filter (LPF) Sensor module with Ultra Wide Lens B036 (103° x 77°), night version optionally with LPF Sensor module with Super Wide Lens B041 (90° x | Day/Color: Mx- Night/Black&White: LPF/Black&White: Day/Color: Mx- Night/Black&White: LPF/Black&White: Day/Color: Mx- Night/Black&White: Day/Color: Mx- Night/Black&White: | O-SMA-S-6D016 Mx-O-SMA-S-6N016 Mx-O-SMA-S-6L016 O-SMA-S-6D036 Mx-O-SMA-S-6N036 Mx-O-SMA-S-6L036 O-SMA-S-6D041 Mx-O-SMA-S-6N041 |
| (Available With Optional Sensor Module) Sensor module with Fisheye Lens B016 (180° x 180°), night version optionally with long-pass filter (LPF) Sensor module with Ultra Wide Lens B036 (103° x 77°), night version optionally with LPF Sensor module with Super Wide Lens B041 (90° x 67°), night version optionally with LPF Sensor module with Wide Lens B061 (60° x 45°), | Day/Color: Mx- Night/Black&White: LPF/Black&White: Day/Color: Mx- Night/Black&White: LPF/Black&White: LPF/Black&White: Day/Color: Mx- Night/Black&White: LPF/Black&White: LPF/Black&White: LPF/Black&White: Day/Color: Mx- Night/Black&White: LPF/Black&White: Day/Color: Mx- Night/Black&White: | O-SMA-S-6D016 Mx-O-SMA-S-6N016 Mx-O-SMA-S-6L016 O-SMA-S-6D036 Mx-O-SMA-S-6N036 Mx-O-SMA-S-6L036 O-SMA-S-6D041 Mx-O-SMA-S-6N041 Mx-O-SMA-S-6L041 O-SMA-S-6D061 Mx-O-SMA-S-6N061 |
| (Available With Optional Sensor Module) Sensor module with Fisheye Lens B016 (180° x 180°), night version optionally with long-pass filter (LPF) Sensor module with Ultra Wide Lens B036 (103° x 77°), night version optionally with LPF Sensor module with Super Wide Lens B041 (90° x 67°), night version optionally with LPF Sensor module with Wide Lens B061 (60° x 45°), night version optionally with LPF Sensor module with Standard Lens B079 (45° x 34°), | Day/Color: Mx- Night/Black&White: LPF/Black&White: Day/Color: Mx- Night/Black&White: LPF/Black&White: LPF/Black&White: Day/Color: Mx- Night/Black&White: LPF/Black&White: LPF/Black&White: LPF/Black&White: LPF/Black&White: LPF/Black&White: LPF/Black&White: Day/Color: Mx- Night/Black&White: LPF/Black&White: LPF/Black&White: Day/Color: Mx- Night/Black&White: | O-SMA-S-6D016 Mx-O-SMA-S-6N016 Mx-O-SMA-S-6L016 O-SMA-S-6D036 Mx-O-SMA-S-6N036 Mx-O-SMA-S-6L036 O-SMA-S-6D041 Mx-O-SMA-S-6N041 Mx-O-SMA-S-6L041 O-SMA-S-6D061 Mx-O-SMA-S-6L061 O-SMA-S-6L061 O-SMA-S-6D079 Mx-O-SMA-S-6N079 |
| (Available With Optional Sensor Module) Sensor module with Fisheye Lens B016 (180° x 180°), night version optionally with long-pass filter (LPF) Sensor module with Ultra Wide Lens B036 (103° x 77°), night version optionally with LPF Sensor module with Super Wide Lens B041 (90° x 67°), night version optionally with LPF Sensor module with Wide Lens B061 (60° x 45°), night version optionally with LPF Sensor module with Standard Lens B079 (45° x 34°), night version optionally with LPF Sensor module with Tele Lens B119 (31° x 23°), night | Day/Color: Mx- Night/Black&White: LPF/Black&White: Day/Color: Mx- Night/Black&White: LPF/Black&White: LPF/Black&White: Day/Color: Mx- Night/Black&White: LPF/Black&White: LPF/Black&White: LPF/Black&White: LPF/Black&White: LPF/Black&White: LPF/Black&White: Day/Color: Mx- Night/Black&White: LPF/Black&White: LPF/Black&White: LPF/Black&White: LPF/Black&White: LPF/Black&White: LPF/Black&White: LPF/Black&White: LPF/Black&White: LPF/Black&White: | O-SMA-S-6D016 Mx-O-SMA-S-6N016 Mx-O-SMA-S-6L016 O-SMA-S-6D036 Mx-O-SMA-S-6N036 Mx-O-SMA-S-6L036 O-SMA-S-6D041 Mx-O-SMA-S-6D041 Mx-O-SMA-S-6L041 O-SMA-S-6D061 Mx-O-SMA-S-6N061 Mx-O-SMA-S-6L061 O-SMA-S-6D079 Mx-O-SMA-S-6N079 Mx-O-SMA-S-6L079 O-SMA-S-6D119 Mx-O-SMA-S-6N119 |
| (Available With Optional Sensor Module) Sensor module with Fisheye Lens B016 (180° x 180°), night version optionally with long-pass filter (LPF) Sensor module with Ultra Wide Lens B036 (103° x 77°), night version optionally with LPF Sensor module with Super Wide Lens B041 (90° x 67°), night version optionally with LPF Sensor module with Wide Lens B061 (60° x 45°), night version optionally with LPF Sensor module with Standard Lens B079 (45° x 34°), night version optionally with LPF Sensor module with Tele Lens B119 (31° x 23°), night version optionally with LPF Sensor module with Tele Lens B119 (31° x 23°), night version optionally with LPF | Day/Color: Mx- Night/Black&White: LPF/Black&White: Day/Color: Mx- Night/Black&White: LPF/Black&White: LPF/Black&White: Day/Color: Mx- Night/Black&White: LPF/Black&White: | O-SMA-S-6D016 Mx-O-SMA-S-6N016 Mx-O-SMA-S-6L016 O-SMA-S-6D036 Mx-O-SMA-S-6N036 Mx-O-SMA-S-6L036 O-SMA-S-6D041 Mx-O-SMA-S-6N041 Mx-O-SMA-S-6N041 Mx-O-SMA-S-6L041 O-SMA-S-6D061 Mx-O-SMA-S-6L061 O-SMA-S-6D079 Mx-O-SMA-S-6N079 Mx-O-SMA-S-6L079 O-SMA-S-6D119 Mx-O-SMA-S-6N119 Mx-O-SMA-S-6L119 O-SMA-S-6D237 Mx-O-SMA-S-6N237 |



| Sensor module with CSVario Lens 1945-100 CS Paylin/Black&White: Mr.O. SMA 5-BOCSY | Optical Lenses/Sensors, 6MP, 3072 x 2048 (Available With Optional Sensor Module) | M16A Thermal | M16A Thermal TR | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--|
| Color or Black And White Light sensitivity in lux at 1/60 s and 1/1 s Research (1/10,005 | | ** | | |
| Hardware MIGA Thermal MIGA Thermal MIGA Thermal TR Microprocessor I. AMA G Dual Core incl. GPU (1 GB Rptu Flash) H.264 Hardware-Codec Yes, bandwidth limitation available; output image format up to QXGA Protection class IP66 and IK06; with second GMP sensor module: IK04 with 8036 to 8237, IK06 with 8016 Intended use Not for use in hazardous areas (Ex area); no mounting behind glass windows Ambient temperature (range, incl. storage) Internal DVR, ex works Ambient temperature (range, incl. storage) Microphone/speaker Yes, Yes Idebit/16kHz HD wideband audio (Opus codec) Passive inflared sensor (PIR) Yes Shock detector (tamper detection) Power consumption (typically at 20°C/68°F) Power consumption (typically at 20°C/68°F) Poet class (IEEE 802.3af) Class 2 or 3 (variable), factory setting: class 3 (required for thermal operation) Interface RS232 With accessory (IM2321-O-Box) Mounting options Wall, pole or ceiling (wall and ceiling mount included) Dimensions (height x width x depth) Weight 1,330 g PBT-300F, color-white Standard accessory Standard accessory Standard accessory Standard accessory Mounting of this document MTBF Protocols IP44, IP46, HTTP, HTTP, FTP, FTP, FTP, FTP, FTP, FTP, FTP, | Image sensor with individual exposure zones | | | |
| Microprocessor | Light sensitivity in lux at 1/60 s and 1/1 s | · · · | | |
| H.26 Hardware-Codec Yes, bandwidth limitation available; output timage format up to QXGA Protection class IP66 and IK06; with second 6MP sensor module: IK04 with B036 to B237, IK06 with B016 Intended use Not for use in hazardous areas (Ex area); no mounting behind glass windows Ambient temperature (range, incl. storage) 40 to 60°C/40 to 140°C (cold boot from -30°C/-22°F) Microphone/speaker Yes/Yes Microphone/speaker Yes/S ISbit/16kHz HD wideband audio (Opus codec) Passive infrared sensor (PIR) Yes Temperature sensor Yes Shock detector (tamper detection) Yes Power consumption (typically at 20°C/88°F) Pote class (IEEE 802.3af) Class 2 or 3 (variable), factory setting: class 3 (required for thermal operation) Interfaces Ethernet 100BaseT/MxBus/USB With accessory (MX-232-10-Box) Mounting options Weight Weight 1,320 g Housing PBT-30GF, color: white Patient of this document Weight Again accessory Screws, dowels, screw caps, 2 allen wrenches, module key, VarioFlex wall and ceiling mount with rubber sealing, 0.5 m ethernet patch cable, 1 blind module, Quick Install Detailed technical documentation Www.mobotix.com > Support > Download Center WIEF Screws, dowels, screw caps, 2 allen wrenches, module key, VarioFlex wall and ceiling mount with rubber sealing, 0.5 m ethernet patch cable, 1 blind module, Quick Install Detailed technical document Www.mobotix.com > Support > Download Center WIEF Screws, dowels, screw caps, 2 allen wrenches, module key, VarioFlex wall and ceiling mount with rubber sealing, 0.5 m ethernet patch cable, 1 blind module, Quick install Detailed technical document Www.mobotix.com > Support > Download Center WIEF Screws, dowels, screw caps, 2 allen wrenches, module key, VarioFlex wall and ceiling mount with rubber sealing, 0.5 m ethernet patch cable, 1 blind module, Quick install Detailed technical document Www.mobotix.com > Support > Download Center WIEF Protocols | Hardware | M16A Thermal | M16A Thermal TR | |
| Protection class IP66 and IKD6; with second 6MP sensor module: IKO4 with B036 to B237, IKO6 with B016 Intended use Not for use in hazardous areas (Ex area); no mounting behind glass windows Ambient temperature (range, incl. storage) Internal DVR, ex works 4 GB (micro5D) Microphone/speaker Yes/Yes Ibbit/L6kHz HD wideband audio (Opus codec) Passive infrared sensor (PIR) Yes Temperature sensor Shock detector (tamper detection) Power consumption (typically at 20°C/68°F) Poe class (IEEE 802.3af) Interfaces Ethernet 100BaseT/MsBus/USB Interfaces Ethernet 100BaseT/MsBus/USB Interfaces Ethernet 100BaseT/MsBus/USB With accessory (MX-232-10-Box) Mounting options Weight Poel or ceiling (wall and ceiling mount included) Dimensions (height x width x depth) Weight Poel or ceiling (wall and ceiling mount included) Standard accessory Screws, dowels, screw caps, 2 allen wenches, module key, VarioFlex wall and ceiling mount with rubber sealing, 0.5 m ethernet patch cable, 1 blind module, Quick Install Detailed technical documentation www.mobotix.com > Support > Download Center MTBF ENS5032:2019; ENS5024:2010 ENS1000-6-1:2007; EN 61000-6-2:2005 ENS1000-6-3:2007+1:2011 ENS1000-6-4:2007-1-2011 AS/NZS CISPR22:2009+1:2010 CFRAT FCC part15B Protocols InP4, IP6, HTTP, HTTPs, FTP, FTPS, RTSP, UDP, SNMP, SMTP, DHCP (client and server), NTP (client and server), STP (client and server) G.711 (PCMA and PCMU) and G.722 Manufacturer's warranty (since May 2018) Multistreaming Yes Multistreaming Multistreaming Yes Multistreaming Multistreaming Multistreaming Multistreaming Yes Multistreaming Multistreaming Multistreaming Multistreaming Ness of Standard Ass, 81,519 or customized format (Image Cropping), such as 2592x1944 (SMP), 2048x1336 (QXAA), 139201080 (FILH-ID), 1280x960 (MEGA) | Microprocessor | i.MX 6 Dual Core incl. GPU | (1 GB RAM, 512 MB Flash) | |
| Intended use Not for use in hazardous areas [£x area]; no mounting behind glass windows Ambient temperature (range, incl. storage) -40 to 60°C/-40 to 140°F (cold boot from -30°C/-22°F) Internal DVR, ex works 4 GB (microSD) Microphone/speaker Yes (live and audio messages) Passive infrared sensor (PIR) Yes Temperature sensor Yes Shock detector (tamper detection) Power consumption (typically at 20°C/68°F) PoE class (IEEE 802.3af) Class 2 or 3 (variable), factory setting: class 3 (required for thermal operation) Interface RS232 With accessory (MX-232-10-Box) Mounting options Wall, pole or celling (wall and celling mount included) Dimensions (height x width x depth) Weight 1, 220 g PBT-306F, color: white Standard accessory Screws, dowels, screw caps, 2 allen wrenches, module key, VarioFlox wall and celling mount with rubber sealing, 0.5 m ethemet patch cable, 1 blind module, Quick Install Petalled technical documentation Www.mobotix.com > Support > Download Center www.mobotix.com > Support > Download Center MTBF Protocols PP-4, IPV6, HTTP, HTTPS, FTP, FTFS, RTP, RTSP, UDP, SMMP, SMTP, DHCP (client and server), SIP (client and server) G-711 (PCMA and PCMU) and G-722 Manufacturer's warranty (since May 2018) Pressory (MX-PEG/MLPEG/HL264 MxPEG/MLPEG/HL264 MxPEG/MLPEG/HL264 MxPEG/MLPEG/HL264 MxInternal Mx (MX-PC) Multistreaming Yes Multistreaming Weight Multistreaming Yes Multistreaming Weight Multistreaming Wes Multistreaming Weight Multistreaming Wes Multistreaming Weight Multistreaming Weight Multistreaming Multistreaming Multistreaming Weight Multistreaming | H.264 Hardware-Codec | Yes, bandwidth limitation available | e; output image format up to QXGA | |
| Ambient temperature (range, incl. storage) Internal DVR, ex works A GB (microSD) Microphone/speaker Yes/Ves 16bit/16kHz HD wideband audio (Opus codec) Passive infrared sensor (PIR) Yes Temperature sensor Shock detector (tamper detection) Power consumption (typically at 20°C/68°F) Power consumption (typically at 20°C/68 | Protection class | IP66 and IK06; with second 6MP sensor mod | dule: IK04 with B036 to B237, IK06 with B016 | |
| Internal DVR, ex works Microphone/speaker Yes/Yes 16bit/16kHz HD wideband audio (Opus codec) Passive infrared sensor (PIR) Temperature sensor Nes Shock detector (tamper detection) Power consumption (typically at 20°C/68°F) PoE class (IEEE 802,3af) Class 2 or 3 (variable), factory setting: class 3 (required for thermal operation) Interfaces Ethernet 1008aseT/MxBus/USB Nes (MxRJ45)/No/Yes With accessory (Mx-232-10-Box) Mounting options Wall, pole or ceiling (wall and ceiling mount included) Dimensions (height x width x depth) PBT-30GF, color: white Screws, dowels, screw caps, 2 allen wrenches, module key, VarioFlex wall and ceiling mount with rubber sealing, 0.5 m ethernet patch cable, 1 bilind module, Quick Install Detailed technical documentation MUBBF Screws, dowels, screw caps, 2 allen wrenches, module key, VarioFlex wall and ceiling mount with rubber sealing, 0.5 m ethernet patch cable, 1 bilind module, Quick Install Detailed technical documentation Www.mobotix.com > Support > Download Center MTBF PROTOCOLS LENSSO2:22010; ENSSO2:22011 ENSSO2:22011 ENSSO2:22015 ENSSO2:22017; ENSSO2:22011 ENSSO2:22011 ENSSO2:22015 ENSSO2:22017; ENSSO2:22011 ENSSO2:22011 ENSSO2:22015 ENSSO2:22016; ENSSO2:22016 ENSSO2:22015 ENSTO 2-22005 ENSSO2:22016; ENSSO2:22016 ENSSO2:22017 ENSTO 2-2005 ENSSO2:22016; ENSSO2:22016 ENSSO2:22016 ENSTO 2-2005 ENSSO2:22016; ENSSO2:22016 ENSSO2:22016 ENSTO 2-2005 ENSSO2:22016; ENSSO2:22016 ENSSO2:22016 ENSTO 2-2005 ENSSO2:22016; ENSSO2:22016 | Intended use | Not for use in hazardous areas (Ex area | a); no mounting behind glass windows | |
| Microphone/speaker Yes/Ves 16bit/16kHz HD wideband audio (Opus codec) Passive infrared sensor (PIR) Temperature sensor Yes Shock detector (tamper detection) Power consumption (typically at 20°C/68°F) PoE class (IEEE 802.3af) Class 2 or 3 (variable), factory setting: class 3 (required for thermal operation) Interfaces Ethernet 100BaseT/MxBus/USB Interfaces Ethernet 100BaseT/MxBus/USB Interfaces Ethernet 100BaseT/MxBus/USB With accessory (Mx-232-10-Box) Mounting options Wall, pole or ceiling (wall and ceiling mount included) Dimensions (height x width x depth) 210 x 158 x 207 mm Weight 1,320 g Housing Screws, dowels, screw caps, 2 allen wrenches, module key, VarioFlex wall and ceiling mount with rubber sealing, 0.5 m ethernet patch cable, 1 blind module, Quick Install Detailed technical documentation Online version of this document Www.mobotix.com > Support > Download Center MTBF Senson Se | Ambient temperature (range, incl. storage) | -40 to 60°C/-40 to 140°F (c | old boot from -30°C/-22°F) | |
| 16bit/16kHz HD wideband audio (Opus codec) Passive infrared sensor (PIR) Temperature sensor Yes Shock detector (tamper detection) Power consumption (typically at 20°C/68°F) PoE class (IEEE 802.3af) PoE class (IEEE 802.3af) Class 2 or 3 (variable), factory setting: class 3 (required for thermal operation) Interfaces Ethernet 100BaseT/MxBus/USB Interface RS232 With accessory (Mx-232.40-Box) Mounting options Wall, pole or ceiling (wall and ceiling mount included) Dimensions (height x width x depth) PoE dass (Region of the set | Internal DVR, ex works | 4 GB (m | icroSD) | |
| Passive infrared sensor (PIR) Temperature sensor Yes Shock detector (tamper detection) Power consumption (typically at 20°C/68°F) Power consumption (typically at 20°C/68°F) Pot class (IEEE 802.3af) Class 2 or 3 (variable), factory setting: class 3 (required for thermal operation) Interfaces Ethernet 100BaseT/MxBus/USB Yes (MxR.43s)/No/Yes Interface RS232 Muth accessory (Mx-232-10-Box) Mounting options Wall, pole or ceiling (wall and ceiling mount included) Dimensions (height x width x depth) 210 x 158 x 207 mm Weight 1,320 g Housing PDET-30GF, color: white Screws, dowels, screw caps, 2 allen wrenches, module key, VarioFlex wall and ceiling mount with rubber sealing, 0.5 m ethernet patch cable, 1 blind module, Quick Install Detailed technical documentation Www.mobotix.com > Support > Download Center WIBF Screws, dowels, screw caps, 2 allen wrenches, module key, VarioFlex wall and ceiling mount with rubber sealing, 0.5 m ethernet patch cable, 1 blind module, Quick Install Potalled technical documentation Www.mobotix.com > Support > Download Center WIBF Server, Screws, | Microphone/speaker | Yes | Yes | |
| Temperature sensor Shock detector (tamper detection) Power consumption (typically at 20°C/68°F) Power consumption (typically at 20°C/68°F) Po class (IEEE 802.3af) Class 2 or 3 (variable), factory setting: class 3 (required for thermal operation) Interfaces Ethernet 100BaseT/MxBus/USB Yes (MxRJ45)/No/Yes Interface RS232 With accessory (MX-232-IO-Box) Mounting options Wall, pole or ceiling (wall and ceiling mount included) Dimensions (height x width x depth) 210 x 158 x 207 mm Weight 1,320 g PBT-30GF, color: white Screws, dowels, screw caps, 2 allen wrenches, module key, VarioFlex wall and ceiling mount with rubber sealing, 0.5 m ethernet patch cable, 1 blind module, Quick Install Detailed technical documentation Www.mobotix.com > Support > Download Center MTBF Screws, dowels, screw caps, 2 allen wrenches, module key, VarioFlex wall and ceiling mount with rubber sealing, 0.5 m ethernet patch cable, 1 blind module, Quick Install Www.mobotix.com > Support > Download Center Www.mobotix.com > Support > Download Center MTBF Screws, dowels, screw caps, 2 allen wrenches, module key, VarioFlex wall and ceiling mount with rubber sealing, 0.5 m ethernet patch cable, 1 blind module, Quick Install Www.mobotix.com > Support > Download Center Www.mobotix.com > Support > Download Center WIBF Screws, dowels, screw caps, 2 allen wrenches, module key, VarioFlex wall and ceiling mount with rubber sealing, 0.5 m ethernet patch cable, 1 blind module, Quick Install Www.mobotix.com > Support > Download Center WIBF Screws, dowels, screw caps, 2 allen wrenches, module key, VarioFlex wall and ceiling mount included) Www.mobotix.com > Support > Download Center WIBF Screws, dowels, screw caps, 2 allen wrenches, module key, VarioFlex wall and ceiling mount with rubber sealing, 0.5 m ethernet patch cable, therefore the patch of th | 16bit/16kHz HD wideband audio (Opus codec) | Yes (live and au | udio messages) | |
| Shock detector (tamper detection) Power consumption (typically at 20°C/68°F) Power consumption (typically at 20°C/68°F) Power consumption (typically at 20°C/68°F) Po (lass (IEEE 802.3af) Class 2 or 3 (variable), factory setting: class 3 (required for thermal operation) Interfaces Ethernet 100BaseT/MxBus/USB Yes (MxR,445)/No/Yes Interface RS232 With accessory (MX-232-IO-Box) Mounting options Wall, pole or ceiling (wall and ceiling mount included) Dimensions (height x width x depth) Po (lass 2 or 7 mm Weight 1,320 g Housing PBT-30GF, color: white Screws, dowels, screw caps, 2 allen wrenches, module key, VarioFlex wall and ceiling mount with rubber sealing, 0.5 m ethernet patch cable, 1 blind module, Quick Install Detailed technical documentation Www.mobotix.com > Support > Download Center WTBF Po (lass 2 or 2 my mount with rubber sealing, 0.5 m ethernet patch cable, 1 blind module, Quick Install EN55032:2012 EN55032:2012 EN55032:2012 EN55032:2012 EN55032:2012 EN55032:2012 EN55032:2012 EN55032:2012 EN55032:2012 EN55032:2010 EN55032:2012 EN55032:2010 EN55032:2010 EN55032:2012 EN55032:2010 EN5503 | Passive infrared sensor (PIR) | Ye | es | |
| Power consumption (typically at 20°C/68°F) PoE class (IEEE 802,3af) Class 2 or 3 (variable), factory setting: class 3 (required for thermal operation) Interfaces Ethernet 100BaseT/MxBus/USB Interface R5232 Mounting options Wall, pole or ceiling (wall and ceiling mount included) Dimensions (height x width x depth) Weight 1,320 g Housing PBT-30GF, color: white Standard accessory Standard acce | Temperature sensor | Ye | es | |
| PoE class (IEEE 802.3af) Class 2 or 3 (variable), factory setting: class 3 (required for thermal operation) Interfaces Ethernet 100BaseT/MxBus/USB Interface RS232 Mounting options Wall, pole or ceiling (wall and ceiling mount included) Dimensions (height x width x depth) Weight 1,320 g Housing PBT-30GF, color: white Standard accessory Screws, dowels, screw caps, 2 allen wrenches, module key, VarioFlex wall and ceiling mount with rubber sealing, 0.5 m ethernet patch cable, 1 blind module, Quick Install Detailed technical documentation Www.mobotix.com > Support > Download Center MTBF PNS002:2010; ENS502:2012 ENS502:2010; ENS5022:2012 ENS5022:2010; ENS5022:2010; ENS5024:2010 ENG1000-6-1:2007; EN 61000-6-2:2005 EN61000-6-3:2007+A1:2011 EN61000-6-4:2007+A1:2011 AS/NZS CISPR22:2009+A1:2010 ENG1000-6-4:2007+A1:2011 AS/NZS CISPR22:2009+A1:2010 ENG1000-6-4:2007+A1:2011 AS/NZS CISPR22:2009+A1:2010 ENG1000-6-4:2007+A1:2011 Murdacturer's warranty (since May 2018) Image Formats, Frame Rates, Image Storage M16A Thermal MyeG/MJPEG/H.264 Freely configurable format 4:3, 8:3, 16:9 or customized format (Image Cropping), such as 2592x1944 (5MP), 2048x1536 (QXGA), 1920x1080 (Full-HD), 1280x960 (MEGA) Multistreaming Wes Multicast stream via RTSP | Shock detector (tamper detection) | Yes | | |
| Interfaces Ethernet 100BaseT/MxBus/USB Interface RS232 With accessory (MX-232-IO-Box) Mounting options Wall, pole or ceiling (wall and ceiling mount included) Dimensions (height x width x depth) 210 x 158 x 207 mm Weight 1,320 g Housing PBT-30GF, color: white Screws, dowels, screw caps, 2 allen wrenches, module key, VarioFlex wall and ceiling mount with rubber sealing, 0.5 m ethernet patch cable, 1 blind module, Quick Install Detailed technical documentation www.mobotix.com > Support > Download Center Online version of this document www.mobotix.com > Support > Download Center MTBF 80,000 hours EN55032:2012 EN55022:2010; EN55024:2010 EN61000-6-1:2007; EN 61000-6-2:2005 EN61000-6-3:2007+A1:2011 EN61000-6-4:2007+A1:2011 AS/ NZS CISPR22:2009+A1:2010 CFR47 FCC part15B Protocols IPV4, IPV6, HTTP, HTTPS, FTP, FTPS, RTP, RTSP, UDP, SNMP, DHCP (client and server), NTP (client and server), SIP (client and server) G.711 (PCMA and PCMU) and G.722 Manufacturer's warranty (since May 2018) 3 years Image Formals, Frame Rates, Image Storage M16A Thermal M16A Thermal TR Available video codecs MxPEG/MJPEG/H.264 Image formats Freely configurable format 4:3, 8:3, 16:9 or customized format (Image Cropping), such as 2592x1944 (5MP), 2048x1536 (QXGA), 1920x1080 (Full-HD), 1280x960 (MEGA) Multistreaming Yes Multicast stream via RTSP | Power consumption (typically at 20°C/68°F) | 9 W (10 W possible over the short term) | | |
| Interface RS232 Mith accessory (MX-232-IO-Box) Mounting options Wall, pole or ceiling (wall and ceiling mount included) Dimensions (height x width x depth) 210 x 158 x 207 mm Weight 1,320 g Housing PBT-30GF, color: white Standard accessory Screws, dowels, screw caps, 2 allen wrenches, module key, VarioFlex wall and ceiling mount with rubber sealing, 0.5 m ethernet patch cable, 1 blind module, Quick Install Detailed technical documentation www.mobotix.com > Support > Download Center Online version of this document www.mobotix.com > Support > Download Center MTBF PROSE SENSO32:2010; ENS5032:2012 ENS5032:2010; ENS5032:2012 ENS5032:2010; ENS5032:2012 ENS5032:2011 ENG1000-6-1:2007; EN 61000-6-2:2005 EN61000-6-3:2007+A1:2011 EN61000-6-4:2007+A1:2011 AS/ NZS CISPR22:2009+A1:2010 CFR4T FCC part15B Protocols IPV4, IPV6, HTTP, HTTPS, FTP, FTPS, RTP, RTSP, UDP, SNMP, DHCP (client and server), NTP (client and server), SIP (client and server) G.711 (PCMA and PCMU) and G.722 Manufacturer's warranty (since May 2018) Image Formats, Frame Rates, Image Storage M16A Thermal TR Available video codecs MxPEG/MJPEG/H.264 Image formats Freely configurable format 4:3, 8:3, 16:9 or customized format (Image Cropping), such as 2592x1944 (5MP), 2048x1536 (QXGA), 1920x1080 (Full-HD), 1280x960 (MEGA) Multistreaming Yes Multicast stream via RTSP | PoE class (IEEE 802.3af) | Class 2 or 3 (variable), factory setting: class 3 (required for thermal operation) | | |
| Mounting options Wall, pole or ceiling (wall and ceiling mount included) Dimensions (height x width x depth) 210 x 158 x 207 mm Weight 1,320 g PBT-30GF, color: white Screws, dowels, screw caps, 2 allen wrenches, module key, VarioFlex wall and ceiling mount with rubber sealing, 0.5 m ethernet patch cable, 1 blind module, Quick Install Detailed technical documentation Www.mobotix.com > Support > Download Center Online version of this document Wrw.mobotix.com > Support > Download Center MTBF > 80,000 hours Certifications EN55032:2012 EN55022:2010; EN55024:2010 EN61000-6-1:2007; EN 61000-6-2:2005 EN61000-6-3:2007+A1:2011 EN61000-6-4:2007+A1:2011 AS/ NZS CISPR22:2009+A1:2010 CFR47 FCC part15B Protocols IPV4, IPV6, HTTP, HTTPS, FTP, FTPS, RTP, RTSP, UDP, SMMP, SMTP, DHCP (client and server), NTP (client and server), SIP (client and server) G.711 (PCMA and PCMU) and G.722 Manufacturer's warranty (since May 2018) Image Formats, Frame Rates, Image Storage M16A Thermal M16A Thermal TR Available video codecs MxPEG/MJPEG/H.264 Freely configurable format 4:3, 8:3, 16:9 or customized format (Image Cropping), such as 2592x1944 (5MP), 2048x1536 (QXGA), 1920x1080 (Full-HD), 1280x960 (MEGA) Multistreaming Yes Multicast stream via RTSP | Interfaces Ethernet 100BaseT/MxBus/USB | Yes (MxRJ4 | 45)/No/Yes | |
| Dimensions (height x width x depth) 210 x 158 x 207 mm 1,320 g Housing PBT-30GF, color: white Screws, dowels, screw caps, 2 allen wrenches, module key, VarioFlex wall and ceiling mount with rubber sealing, 0,5 m ethernet patch cable, 1 blind module, Quick Install Detailed technical documentation Detailed technical document Www.mobotix.com > Support > Download Center WMBF Postocian EN55032:2012 EN55032:2012 EN55032:2012 EN55032:2010; EN55024:2010 EN51000-6-1:2007; EN 61000-6-2:2005 EN61000-6-3:2007+A1:2011 EN61000-6-4:2007+A1:2011 AS/ NZS CISPR22:2009+A1:2010 CFR47 FCC part15B Protocols IPv4, IPv6, HTTP, HTTPS, FTPS, RTP, RTSP, UDP, SNMP, SMTP, DHCP (client and server), NTP (client and server), SIP (client and server) G.711 (PCMA and PCMU) and G.722 Manufacturer's warranty (since May 2018) Image Formats, Frame Rates, Image Storage M16A Thermal M16A Thermal TR Available video codecs MxPEG/MJPEG/H.264 Freely configurable format 4:3, 8:3, 16:9 or customized format (Image Cropping), such as 2592x1944 (5MP), 2048x1536 (QXGA), 1920x1080 (Full-HD), 1280x960 (MEGA) Multistreaming Yes Multicast stream via RTSP | Interface RS232 | With accessory (| (MX-232-IO-Box) | |
| Housing PBT-30GF, color: white Standard accessory Screws, dowels, screw caps, 2 allen wrenches, module key, VarioFlex wall and ceiling mount with rubber sealing, 0.5 m ethernet patch cable, 1 blind module, Quick Install Detailed technical documentation www.mobotix.com > Support > Download Center Online version of this document www.mobotix.com > Support > Download Center MTBF > 80,000 hours EN55032:2012 EN55022:2010; EN55024:2010 EN61000-6-1:2007; EN 61000-6-2:2005 EN61000-6-3:20074-A1:2011 EN61000-6-4:2007+A1:2011 AS/ NZS CISPR22:2009+A1:2011 CFR47 FCC part15B Protocols IPV4, IPV6, HTTP, HTTPS, FTP, FTPS, RTP, RTSP, UDP, SNMP, SMTP, DHCP (client and server), NTP (client and server), SIP (client and server) G.711 (PCMA and PCMU) and G.722 Manufacturer's warranty (since May 2018) 3 years Image Formats, Frame Rates, Image Storage M16A Thermal MAPEG/MJPEG/H.264 Mavilable video codecs MxPEG/MJPEG/H.264 Image formats Freely configurable format 4:3, 8:3, 16:9 or customized format (Image Cropping), such as 2592x1944 (5MP), 2048x1536 (QXGA), 1920x1080 (Full-HD), 1280x960 (MEGA) Multistreaming Yes Multicast stream via RTSP Yes | Mounting options | Wall, pole or ceiling (wall a | nd ceiling mount included) | |
| Housing PBT-30GF, color: white Screws, dowels, screw caps, 2 allen wrenches, module key, VarioFlex wall and ceiling mount with rubber sealing, 0.5 m ethernet patch cable, 1 blind module, Quick Install Detailed technical documentation | Dimensions (height x width x depth) | 210 x 158 x 207 mm | | |
| Screws, dowels, screw caps, 2 allen wrenches, module key, VarioFlex wall and ceiling mount with rubber sealing, 0.5 m ethernet patch cable, 1 blind module, Quick Install Detailed technical documentation Www.mobotix.com > Support > Download Center WMBF S80,000 hours EN55032:2012 EN55032:2012 EN55022:2010; EN55024:2010 EN61000-6-1:2007; EN 61000-6-2:2005 EN61000-6-3:2007+A1:2011 EN61000-6-4:2007+A1:2011 AS/ NZS CISPR22:2009+A1:2010 CFR47 FCC part15B Protocols IPV4, IPV6, HTTP, HTTPS, FTP, FTPS, RTP, RTSP, UDP, SNMP, SMTP, DHCP (client and server), NTP (client and server), SIP (client and server) G.711 (PCMA and PCMU) and G.722 Manufacturer's warranty (since May 2018) Image Formats, Frame Rates, Image Storage M16A Thermal M16A Thermal TR Available video codecs MXPEG/MJPEG/H.264 Image formats Freely configurable format 4:3, 8:3, 16:9 or customized format (Image Cropping), such as 2592x1944 (5MP), 2048x1536 (QXGA), 1920x1080 (Full-HD), 1280x960 (MEGA) Multistreaming Yes Multicast stream via RTSP | Weight | 1,32 | 20 g | |
| mount with rubber sealing, 0.5 m ethernet patch cable, 1 blind module, Quick Install Detailed technical documentation www.mobotix.com > Support > Download Center MTBF Postocols Brysto Support > Download Center EN55022:2010; EN55022:2010; EN55032:2012 EN55022:2010; EN55024:2010 EN61000-6-1:2007; EN 61000-6-2:2005 EN61000-6-3:2007+A1:2011 EN61000-6-4:2007+A1:2011 AS/ NZS CISPR22:2099+A1:2010 CFR47 FCC part15B Protocols Bryt, IPv6, HTTP, HTTPS, FTP, FTPS, RTP, RTSP, UDP, SNMP, SMTP, DHCP (client and server), NTP (client and server), SIP (client and server) G.711 (PCMA and PCMU) and G.722 Manufacturer's warranty (since May 2018) Image Formats, Frame Rates, Image Storage M16A Thermal M16A Thermal TR Available video codecs MxPEG/MJPEG/H.264 Freely configurable format 4:3, 8:3, 16:9 or customized format (Image Cropping), such as 2592x1944 (5MP), 2048x1536 (QXGA), 1920x1080 (Full-HD), 1280x960 (MEGA) Multistreaming Yes Multicast stream via RTSP Yes | Housing | PBT-30GF, o | color: white | |
| Online version of this document Www.mobotix.com > Support > Download Center **NTBF** **80,000 hours EN55032:2012 EN55032:2012 EN55022:2010; EN55024:2010 EN61000-6-1:2007; EN 61000-6-2:2005 EN61000-6-3:2007+A1:2011 EN61000-6-4:2007+A1:2011 AS/ NZS CISPR22:2009+A1:2010 CFR47 FCC part15B Protocols IPv4, IPv6, HTTP, HTTPS, FTP, FTPS, RTP, RTSP, UDP, SNMP, SMTP, DHCP (client and server), NTP (client and server), SIP (client and server) G.711 (PCMA and PCMU) and G.722 Manufacturer's warranty (since May 2018) Image Formats, Frame Rates, Image Storage M16A Thermal M16A Thermal TR Available video codecs MXPEG/MJPEG/H.264 Image formats Freely configurable format 4:3, 8:3, 16:9 or customized format (Image Cropping), such as 2592x1944 (5MP), 2048x1536 (QXGA), 1920x1080 (Full-HD), 1280x960 (MEGA) Multistreaming Yes Multicast stream via RTSP Yes | Standard accessory | | | |
| MTBF > 80,000 hours EN55032:2012 EN55022:2010; EN55024:2010 EN61000-6-1:2007; EN 61000-6-2:2005 | Detailed technical documentation | www.mobotix.com > Support > Download Center | | |
| Certifications EN55032:2012 EN55022:2010; EN55024:2010 EN61000-6-1:2007; EN 61000-6-2:2005 EN61000-6-3:2007+A1:2011 EN61000-6-4:2007+A1:2011 AS/ NZS CISPR22:2009+A1:2010 CFR47 FCC part15B Protocols IPv4, IPv6, HTTP, HTTPS, FTP, FTPS, RTP, RTSP, UDP, SNMP, SMTP, DHCP (client and server), NTP (client and server), SIP (client and server) G.711 (PCMA and PCMU) and G.722 Manufacturer's warranty (since May 2018) Image Formats, Frame Rates, Image Storage M16A Thermal M16A Thermal TR Available video codecs MxPEG/MJPEG/H.264 Image formats Freely configurable format 4:3, 8:3, 16:9 or customized format (Image Cropping), such as 2592x1944 (5MP), 2048x1536 (QXGA), 1920x1080 (Full-HD), 1280x960 (MEGA) Multicast stream via RTSP Yes | Online version of this document | www.mobotix.com > Support > Download Center | | |
| Certifications EN55022:2010; EN55024:2010 EN61000-6-1:2007; EN 61000-6-2:2005 EN61000-6-3:2007+A1:2011 EN61000-6-4:2007+A1:2011 AS/ NZS CISPR22:2009+A1:2010 CFR47 FCC part15B Protocols IPv4, IPv6, HTTP, HTTPS, FTP, FTPS, RTP, RTSP, UDP, SNMP, SMTP, DHCP (client and server), NTP (client and server), SIP (client and server) G.711 (PCMA and PCMU) and G.722 Manufacturer's warranty (since May 2018) 3 years Image Formats, Frame Rates, Image Storage M16A Thermal M16A Thermal TR Available video codecs MxPEG/MJPEG/H.264 Image formats Freely configurable format 4:3, 8:3, 16:9 or customized format (Image Cropping), such as 2592x1944 (5MP), 2048x1536 (QXGA), 1920x1080 (Full-HD), 1280x960 (MEGA) Multistreaming Yes Multicast stream via RTSP | MTBF | > 80,000 hours | | |
| Manufacturer's warranty (since May 2018) Image Formats, Frame Rates, Image Storage M16A Thermal Available video codecs MxPEG/MJPEG/H.264 Image formats Freely configurable format 4:3, 8:3, 16:9 or customized format (Image Cropping), such as 2592x1944 (5MP), 2048x1536 (QXGA), 1920x1080 (Full-HD), 1280x960 (MEGA) Multistreaming Yes Multicast stream via RTSP | Certifications | EN55022:2010; EN55024:2010 EN61000-6-1:2007; EN 61000-6-2:2005 EN61000-6-3:2007+A1:2011 EN61000-6-4:2007+A1:2011 | | |
| Image Formats, Frame Rates, Image StorageM16A ThermalM16A Thermal TRAvailable video codecsMxPEG/MJPEG/H.264Image formatsFreely configurable format 4:3, 8:3, 16:9 or customized format (Image Cropping), such as 2592x1944 (5MP), 2048x1536 (QXGA), 1920x1080 (Full-HD), 1280x960 (MEGA)MultistreamingYesMulticast stream via RTSPYes | Protocols | | | |
| Available video codecs MxPEG/MJPEG/H.264 Image formats Freely configurable format 4:3, 8:3, 16:9 or customized format (Image Cropping), such as 2592x1944 (5MP), 2048x1536 (QXGA), 1920x1080 (Full-HD), 1280x960 (MEGA) Multistreaming Yes Multicast stream via RTSP Yes | Manufacturer's warranty (since May 2018) | 3 years | | |
| Available video codecs MxPEG/MJPEG/H.264 Image formats Freely configurable format 4:3, 8:3, 16:9 or customized format (Image Cropping), such as 2592x1944 (5MP), 2048x1536 (QXGA), 1920x1080 (Full-HD), 1280x960 (MEGA) Multistreaming Yes Multicast stream via RTSP Yes | Image Formats, Frame Rates, Image Storage | M16A Thermal | M16A Thermal TR | |
| Multistreaming 2592x1944 (5MP), 2048x1536 (QXGA), 1920x1080 (Full-HD), 1280x960 (MEGA) Yes Multicast stream via RTSP Yes | | | | |
| Multicast stream via RTSP Yes | Image formats | , , | | |
| | Multistreaming | Yes | | |
| Max. image format (dual image from both sensors) 2x 6MP (6144 x 2048) | Multicast stream via RTSP | Yes | | |
| | Max. image format (dual image from both sensors) | 2x 6MP (6144 x 2048) | | |



| Image Formats, Frame Rates, Image Storage | M16A Thermal | M16A Thermal TR | |
|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|--|
| Max. frame rate for thermal images, Thermal Overlay and dual images (thermal & optical) | 9 frames per second (fps) | | |
| Max. frame rate for optional optical 6MP sensor module (fps, only single core used) | MxPEG: 42@HD(1280x720), 34@Full-HD, 24@QXGA, 15@5MP, 12@6MP, 6@2x 6MP MJPEG: 26@HD(1280x720), 13@Full-HD, 9@QXGA, 5@5MP, 4@6MP, 2@2x 6MP H.264: 25@Full-HD, 20@QXGA | | |
| Number of images with 4 GB microSD (internal DVR) | CIF: 250,000, VGA: 125,000, HD: 40,000, QXGA: 20,000, 6MP: 10,000 | | |
| General Functions | M16A Thermal | M16A Thermal TR | |
| Temperature measurement of 2x2 pixels in the center of the image (Thermal Spot) | Yes | Yes | |
| TR temperature measurement in the whole image area | No | Yes | |
| Event trigger for temperatures above or below a limit between -40 to 550°C/-40 to 1022°F | Yes | Yes | |
| Digital zoom and pan | Υ | 'es | |
| ONVIF compatibility | Yes (Profile S, audio support with | camera firmware V5.2.x and higher) | |
| Genetec protocol integration | Y | Yes | |
| Programmable exposure zones | Yes | | |
| Snapshot recording (pre/post-alarm images) | Yes | | |
| Continuous recording with audio | Yes | | |
| Event recording with audio | Yes | | |
| Time controlled flexible event logic | Yes | | |
| Weekly schedules for recordings and actions | Yes | | |
| Event video and image transfer via FTP and email | Yes | | |
| Playback and QuadView via web browser | Yes | | |
| Bidirectional audio in browser | Yes | | |
| Animated logos on the image | Yes | | |
| Master/Slave functionality | Y | Yes | |
| Privacy zone scheduling | Yes | | |
| Customized voice messages | Yes | | |
| VoIP telephony (audio, alert) | Yes | | |
| Remote alarm notification (network message) | Yes | | |
| Programming interface (HTTP-API) | Yes | | |
| DVR/Storage Management | Inside camera via microSD card, externally via USB device and NAS, different streams for live image and recording, MxFFS with archive function, pre-alarm an post-alarm images, monitoring recording with failure reporting | | |
| Camera and data security | User and group management, SSL connections, IP-based access control, IEEE802.1x, intrusion detection, digital image signature | | |
| MxMessageSystem: Sending and receiving of MxMessages | Yes | | |
| Video Analysis | M16A Day M16A | Night M16A Day & Night | |
| Video motion detector | Y | 'es | |
| MxActivitySensor | Yes | | |
| Video Management Software | M16A Day M16A | Night M16A Day & Night | |
| MxManagementCenter | γ | es | |
| Mobile MOBOTIX App | Yes | | |



