



## V16 – Armored High-Security Dual-Lens Camera

### ■ Designed For Monitoring Extreme Environmental Conditions

Bullet-resistant high-grade steel and special glass lens cover – optimally equipped for hardest attacks

### ■ Needs-Based Lens Alignment Forwards And Downwards To Avoid Blind Spots

Intelligent video complete system with multifunctional MOBOTIX dual camera technology

### ■ Powerful, Intelligent And Flexible Mx6 System Platform

Simultaneous streaming of up to three video codecs (MxPEG, MJPEG And H.264)

### ■ Intelligent 3D Motion Detection

MxActivitySensor integrated as standard

### ■ Reduced Energy Costs

Power consumption < 7 W, standard PoE

### ■ Virtually Maintenance-Free

Weatherproof, IP66, -30 to 60°C

# Technical Specifications

## MOBOTIX V16 Vandalism



Camera Variants	V16 1x Day	V16 Day & Night	V16 2x Day /2x Night
Specialties	<b>Built To Order:</b> The production of the V16 is based on confirmed orders only, lead time up to three months. In case of the V16 with two image sensors, both lenses can be mounted in parallel next to each other at the top, or alternatively at the top and at the bottom (indicate when ordering).		
Lenses, Sensors (Integrated Into Sensor Modules)	V16 1x Day	V16 Day & Night	V16 2x Day /2x Night
6MP Moonlight sensor, with Super Wide Lens B041 (90° x 67°)	<b>Mx-V16A-6D041</b>	<b>Mx-V16A-6D6N041</b>	<b>Mx-V16A-6D6D041</b> <b>Mx-V16A-6N6N041</b>
6MP Moonlight sensor, with Standard Lens B079 (45° x 34°)	<b>Mx-V16A-6D079</b>	<b>Mx-V16A-6D6N079</b>	<b>Mx-V16A-6D6D079</b> <b>Mx-V16A-6N6N079</b>
Hardware	V16 1x Day	V16 Day & Night	V16 2x Day /2x Night
Image sensor with individual exposure zones	Color	Black and White (B/W)	Color & B/W
Light sensitivity in lux at 1/60 s and 1/1 s	0.1/0.005	0.1/0.005 (Color) 0.02/0.001 (B/W)	
Image sensor (color or B/W sensor)	1/1.8" CMOS, 6MP (3072 x 2048), Progressive Scan		
Microprocessor	i.MX 6 Dual Core incl. GPU (1 GB RAM, 512 MB Flash)		
H.264 Hardware Codec	Yes, bandwidth limitation available; output image format up to QXGA		
Protection classes	IP66 and IK10+		
Intended use	Not for use in hazardous areas (Ex area); corner mounting		
Ambient temperature (range, incl. storage)	-30 to 60°C/-22 to 140°F		
Internal DVR, ex works	4 GB (microSD)		
Microphone/speaker	Yes/Yes		
16bit/16kHz HD wideband audio (Opus codec)	Yes (live and audio messages)		
Passive infrared sensor (PIR)	No		
Temperature sensor	Yes		
Shock detector (tamper detection)	Yes (with future software update)		
Power consumption (typical)	< 7 watts		
PoE Class (IEEE 802.3af)	Class 2 or 3 (variable), factory setting: class 3		
Interfaces Ethernet 100BaseT/MxBus/USB	Yes (MxRJ45 and LSA+ rail)/No/Yes		
Interface RS232	With accessory (MX-232-IO-Box)		
Mounting options	Corner mounting only		
Dimensions (height x width x depth)	196 x 260 x 180 mm		
Weight	4.680 g		
Housing	Stainless high-grade steel, thickness 3 to 5 mm, color: unpainted/gray		
Standard accessory	Security screws with bit, 2 allen wrenches, module key, 0.5 m ethernet patch cable, Quick Install		
Detailed technical documentation	<a href="http://www.mobotix.com">www.mobotix.com</a> > Support > Manuals		
Online version of this document	<a href="http://www.mobotix.com">www.mobotix.com</a> > Support > Spec Sheets		
MTBF	> 80,000 hours		
Certifications	EN55032:2012 EN55022:2010; EN55024:2010; EN50121-4:2015 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		

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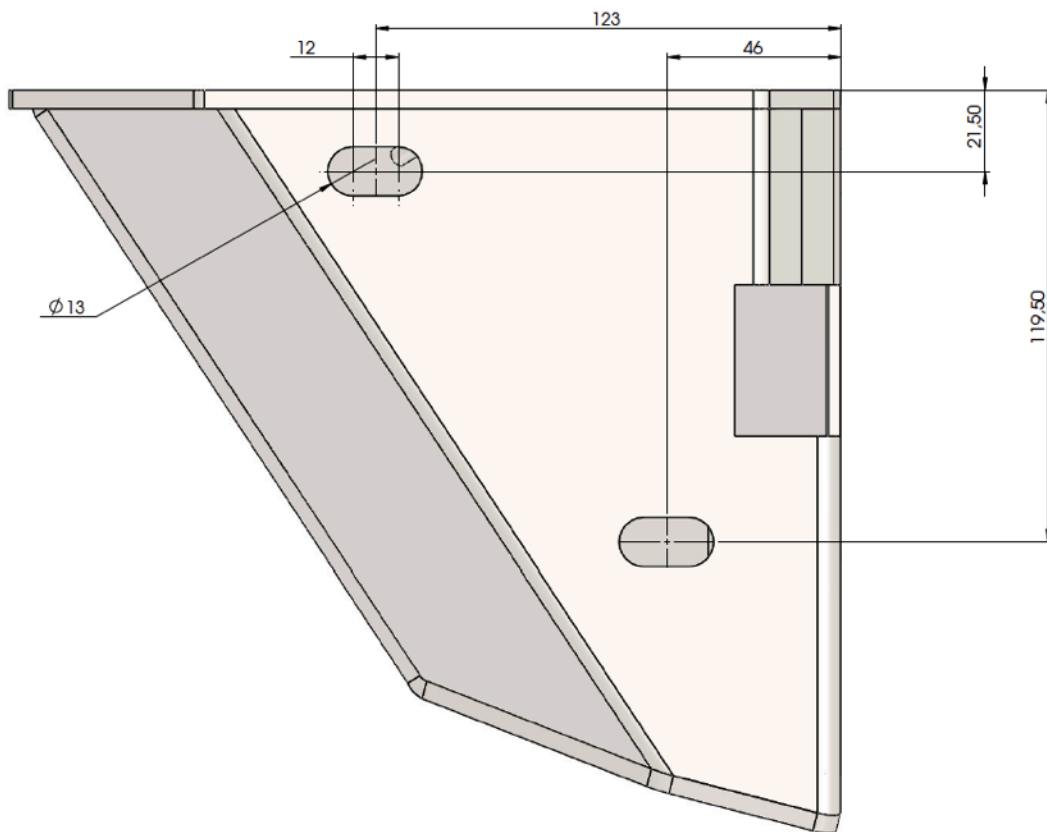
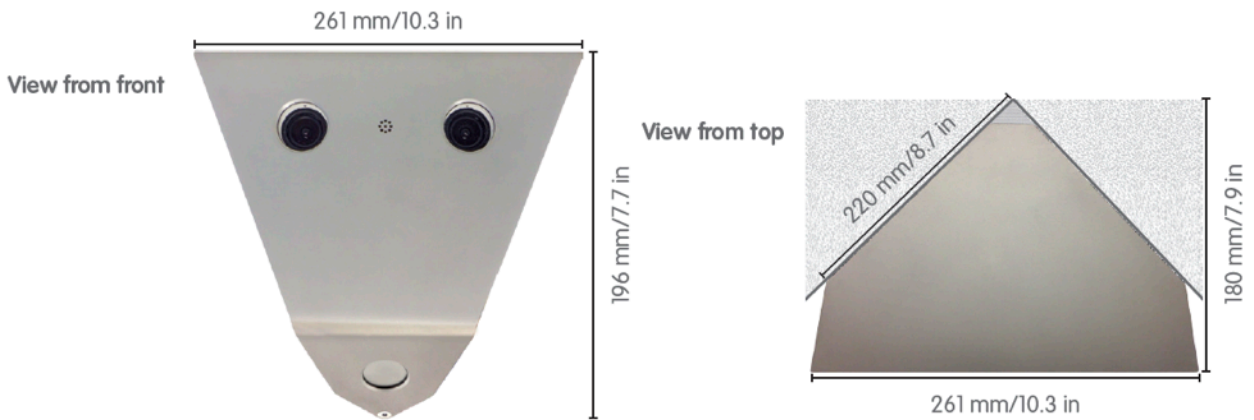
Hardware	V16 1x Day	V16 Day & Night	V16 2x Day /2x Night
Protocols	IPv4, IPv6, HTTP, HTTPS, FTP, SFTP, RTP, RTSP, UDP, SNMP, SMTP, DHCP (client and server), NTP (client and server), SIP (client and server) G.711 (PCMA and PCMU) and G.722		
Image Formats, Frame Rates, Image Storage	V16 1x Day	V16 Day & Night	V16 2x Day /2x Night
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		
Max. image format (dual image from both sensors)	2x 6MP (6144 x 2048)		
Max. frame rate (fps, only single core used)	<b>MxPEG:</b> 42@HD(1280x720), 34@Full-HD, 24@QXGA, 15@5MP, 12@6MP, 6@2x 6MP <b>MJPEG:</b> 26@HD(1280x720), 13@Full-HD, 9@QXGA, 5@5MP, 4@6MP, 2@2x 6MP <b>H.264:</b> 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	V16 1x Day	V16 Day & Night	V16 2x Day /2x Night
Digital zoom and pan	Yes		
ONVIF compatibility	Yes, complete ONVIF Profile S supported by future software update		
Genetec protocol integration	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	Yes		
Privacy zone scheduling	Yes		
Customized voice messages	Yes		
VoIP telephony (audio/video, 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		

# Technical Specifications

## MOBOTIX V16 Vandalism



Video Analysis	V16 1x Day	V16 Day & Night	V16 2x Day /2x Night
Video motion detector		Yes	
MxActivitySensor		Yes	
Video Management Software	V16 1x Day	V16 Day & Night	V16 2x Day /2x Night
MxManagementCenter		Yes	
Mobile MOBOTIX App		Yes	



Dimensions in mm

