



S16 – Professional Outdoor Dual Lens Camera

■ High-Performance Dual Lens Camera For Hidden Installation

Simultaneous Covering Of Two Areas With Up To 3 m Long Sensor Cables

■ Maximum Flexibility Thanks To Modular System

Huge Offer Of Compatible Sensor Modules (Day, Night, Night LPF, Thermal)

■ 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 – 60°C

Technical Specifications

MOBOTIX S16 DualFlex



Camera Variants	S16 DualFlex
Flexible and modular system: The S16 camera module (Body) Mx-S16A can be fitted with one or two sensor modules free of choice (day/night/thermal). MOBOTIX sensor cables are available with a length from 0.5 to 3 m (1.6 to 9.8 ft.). Additionally MOBOTIX offers three different S16 Complete Sets (Mx-S16A-S1, Mx-S16A-S2, Mx-S16A-S3) with one or two hemispheric sensor modules and 2 m (6.6 ft) long sensor cables.	
S16 Body	Mx-S16A
S16 Complete Set 1 (Body + 1x Mx-O-SMA-S-6D016 + accessories)	Mx-S16A-S1
S16 Complete Set 2 (Body + 2x Mx-O-SMA-S-6D016 + accessories)	Mx-S16A-S2
S16 Complete Set 3 (Body + 1x Mx-O-SMA-S-6D016 + 1x Mx-O-SMA-S-6N016 + accessories)	Mx-S16A-S3
Hardware	S16 DualFlex
Light sensitivity in lux at 1/60 s and 1/1 s	Day sensor (Color): 0.1/0.005 lux Night sensor (B/W): 0.02/0.001 lux
Thermal sensor modules	NETD typ. 50 mK, < 79 mK, IR range 7,5 to 13,5 µm
Temperature measuring range for thermal sensor modules	40 to 550 °C
Optical 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 class S16 camera module (body)	IP66 and IK06
Protection class S16 with 6MP sensor modules	IP66 with all modules incl. Thermal; IK04 with B036 to B237; IK07 with B016; BlockFlexMount: IP30/no IK class
Intended use	Not for use in hazardous areas (Ex area)
Ambient temperature (range)	-30 to 60°C/-22 to 140°F; BlockFlexMount: 0 to 50°C/32 to 122°F
Internal DVR, ex works	4 GB (microSD)
Microphone	Part of sensor module/BlockFlexMount (not part of sensor modules with CS-Mount or B500 super tele lens) or with accessory (e.g., ExtIO or AudioMount)
Technical data for external microphone	2,0 V, 2,2 kOhm, sensitivity -35 ± 4 dB, e. g., Panasonic Microphone Capsule WM61
Speaker	With accessory (e.g., SpeakerMount)
Technical data for external speaker	Max. power output 400 mW at 8 Ohm impedance, e. g., Visaton Speaker K36WP or K50WP
16bit/16kHz HD wideband audio (Opus codec)	Yes (live and audio messages)
Passive infrared sensor (PIR)	No
Temperature sensors/shock detector (tamper detection)	Yes/Yes
Power consumption	< 7 Watts
Power consumption with one/two thermal sensor module(s)	Typically 1.5 W per thermal sensor module; however, can only be used together with an S16 body: > Mixed operation (1x thermal, 1x optical): typically 6.5 W (7.5 W possible over the short term) > Dual thermal operation (2x thermal): typically 7 W (8 W possible over the short term) > Single thermal operation (1x thermal): typically 5.5 W (6.5 W possible over the short term)
PoE Class (IEEE 802.3af)	Class 2 or 3 (variable), factory setting: class 3; S16 with thermal sensor always requires class 3

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MOBOTIX S16 DualFlex



Hardware	S16 DualFlex
Interfaces Ethernet 100BaseT/MxBus/USB	Yes (MxRJ45 and LSA+ rail)/No/Yes
Interfaces external microphone/speaker	Yes/Yes
Interface RS232	With accessory (MX-232-IO-Box)
Mounting options	Wall, ceiling, hidden insatllation; extensive selection of mounting accessories available
Dimesnions Mx-S16A (height x width x depth)	130 x 115 x 33 mm
Weight Mx-S16A	430 g
Housing Mx-S16A	PBT-30GF, color: white
Housing thermal sensor modules I (not PTMount)	Module housing: black anodized aluminum Pressure plate: V2A stainless steel Lens and protective glass lens: germanium
Standard accessory Mx-S16A	Screws, dowels, allen wrench, module key, cable strap, 0.5 m ethernet patch cable, QuickInstall
Detailed technical documentation	www.mobotix.com > Support > Manuals
Online version of this document	www.mobotix.com > Support > Spec Sheets
MTBF	> 80,000 hours
Certifications	EN55022:2010; EN55024:2010; EN50121-4:2006 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, 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	S16 DualFlex
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 optical sensor modules (dual image from both sensors)	2x 6MP (6144 x 2048)
Max. image format thermal sensor module	336 x 252, scalable up to 3072 x 2048 (6MP)
Max. frame rate thermal sensor or thermal + optical sensor module	9 frames per secon (fps)
Max. frame rate optical 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

Technical Specifications

MOBOTIX S16 DualFlex



General Functions	S16 DualFlex
Temperature measurement of 2x2 pixels in the center of the image (Thermal Spot)	Only with thermal sensor module (incl. TR)
TR temperature measurement in the whole image area	Only with thermal sensor module TR
Event trigger for temperatures above or below a limit between -40 to 550°C/-40 to 1022°F	Only with thermal sensor module (incl. TR)
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 (0.2 to 30 fps)	Yes
Event recording with audio	Yes
Time and event control/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 and 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	
Video motion detector	Yes
MxActivitySensor	Yes
Video Management Software	S16 DualFlex
MxManagementCenter	Yes
Mobile MOBOTIX App	Yes



Technical Specifications

MOBOTIX S16 DualFlex



Sensor Modules of the S16 (to Be Ordered Separately)



Overview: Available Sensor Modules For S16:

Sensor Modules and BlockFlexMounts Day, 6MP image sensor (color 3072 x 2048), IP66 (sensor modules) and IP30 (BlockFlexMounts)

Sensor Module Day with Fisheye lens B016 (103° x 77°), white	Mx-O-SMA-S-6D016
Sensor Module Day with Fisheye lens B016 (103° x 77°), black	Mx-O-SMA-S-6D016-b
BlockFlexMount Day with Fisheye lens B016 (103° x 77°)	Mx-O-SMA-B-6D016
Sensor Module Day with Ultra Wide lens B036 (103° x 77°), white	Mx-O-SMA-S-6D036
Sensor Module Day with Ultra Wide lens B036 (103° x 77°), black	Mx-O-SMA-S-6D036-b
BlockFlexMount Day with Ultra Wide lens B036 (103° x 77°)	Mx-O-SMA-B-6D036
Sensor Module Day with Super Wide lens B041 (90° x 67°), white	Mx-O-SMA-S-6D041
Sensor Module Day with Super Wide lens B041 (90° x 67°), black	Mx-O-SMA-S-6D041-b
BlockFlexMount Day with Super Wide lens B041 (90° x 67°)	Mx-O-SMA-B-6D041
Sensor Module Day with Wide lens B061 (60° x 45°), white	Mx-O-SMA-S-6D061
Sensor Module Day with Wide lens B061 (60° x 45°), black	Mx-O-SMA-S-6D061-b
BlockFlexMount Day with Wide lens B061 (60° x 45°)	Mx-O-SMA-B-6D061
Sensor Module Day with Standard lens B079 (45° x 34°), white	Mx-O-SMA-S-6D079
Sensor Module Day with Standard lens B079 (45° x 34°), black	Mx-O-SMA-S-6D079-b
BlockFlexMount Day with Standard lens B079 (45° x 34°)	Mx-O-SMA-B-6D079
Sensor Module Day with Tele lens B119 (31° x 23°), white	Mx-O-SMA-S-6D119
Sensor Module Day with Tele lens B119 (31° x 23°), black	Mx-O-SMA-S-6D119-b
BlockFlexMount Day with Tele lens B119 (31° x 23°)	Mx-O-SMA-B-6D119
Sensor Module Day with Distant Tele lens B237 (15° x 11°), white	Mx-O-SMA-S-6D237
Sensor Module Day with Distant Tele lens B237 (15° x 11°), black	Mx-O-SMA-S-6D237-b
BlockFlexMount Day with Distant Tele lens B237 (15° x 11°)	Mx-O-SMA-B-6D237
Sensor Module Day with Super-Tele lens B500 (8° x 6°), white	Mx-O-SMA-S-6D500
Sensor Module Day with Super-Tele lens B500 (8° x 6°), black	Mx-O-SMA-S-6D500-b
BlockFlexMount Day with Super-Tele lens B500 (8° x 6°)	Mx-O-SMA-B-6D500
Sensor Module Day with CS-Mount (no lens), white	Mx-O-SMA-S-6DCS
Sensor Module Day with CS-Mount (no lens), black	Mx-O-SMA-S-6DCS-b
BlockFlexMount Day with CS-Mount (no lens)	Mx-O-SMA-B-6DCS
Sensor Module Day with CSVario-Objektiv B045-100-CS, white	Mx-O-SMA-S-6DCSV
Sensor Module Day with CSVario-Objektiv B045-100-CS, black	Mx-O-SMA-S-6DCSV-b
BlockFlexMount Day with CSVario-Objektiv B045-100-CS	Nur Selbstmontage

Technical Specifications

MOBOTIX S16 DualFlex



Sensor Modules and BlockFlexMounts Night, 6MP image sensor (B/W 3072 x 2048), IP66 (sensor modules) and IP30 (BlockFlexMounts)

Sensor Module Night with Fisheye lens B016 (103° x 77°), white	Mx-O-SMA-S-6N016
Sensor Module Night with Fisheye lens B016 (103° x 77°), black	Mx-O-SMA-S-6N016-b
BlockFlexMount Night with Fisheye lens B016 (103° x 77°)	Mx-O-SMA-B-6N016
Sensor Module Night with Ultra Wide lens B036 (103° x 77°), white	Mx-O-SMA-S-6N036
Sensor Module Night with Ultra Wide lens B036 (103° x 77°), black	Mx-O-SMA-S-6N036-b
BlockFlexMount Night with Ultra Wide lens B036 (103° x 77°)	Mx-O-SMA-B-6N036
Sensor Module Night with Super Wide lens B041 (90° x 67°), white	Mx-O-SMA-S-6N041
Sensor Module Night with Super Wide lens B041 (90° x 67°), black	Mx-O-SMA-S-6N041-b
BlockFlexMount Night with Super Wide lens B041 (90° x 67°)	Mx-O-SMA-B-6N041
Sensor Module Night with Wide lens B061 (60° x 45°), white	Mx-O-SMA-S-6N061
Sensor Module Night with Wide lens B061 (60° x 45°), black	Mx-O-SMA-S-6N061-b
BlockFlexMount Night with Wide lens B061 (60° x 45°)	Mx-O-SMA-B-6N061
Sensor Module Night with Standard lens B079 (45° x 34°), white	Mx-O-SMA-S-6N079
Sensor Module Night with Standard lens B079 (45° x 34°), black	Mx-O-SMA-S-6N079-b
BlockFlexMount Night with Standard lens B079 (45° x 34°)	Mx-O-SMA-B-6N079
Sensor Module Night with Tele lens B119 (31° x 23°), white	Mx-O-SMA-S-6N119
Sensor Module Night with Tele lens B119 (31° x 23°), black	Mx-O-SMA-S-6N119-b
BlockFlexMount Night with Tele lens B119 (31° x 23°)	Mx-O-SMA-B-6N119
Sensor Module Night with Distant Tele lens B237 (15° x 11°), white	Mx-O-SMA-S-6N237
Sensor Module Night with Distant Tele lens B237 (15° x 11°), black	Mx-O-SMA-S-6N237-b
BlockFlexMount Night with Distant Tele lens B237 (15° x 11°)	Mx-O-SMA-B-6N237
Sensor Module Night with Super-Tele lens B500 (8° x 6°), white	Mx-O-SMA-S-6N500
Sensor Module Night with Super-Tele lens B500 (8° x 6°), black	Mx-O-SMA-S-6N500-b
BlockFlexMount Night with Super-Tele lens B500 (8° x 6°)	Mx-O-SMA-B-6N500
Sensor Module Night with CS-Mount (no lens), white	Mx-O-SMA-S-6NCS
Sensor Module Night with CS-Mount (no lens), black	Mx-O-SMA-S-6NCS-b
BlockFlexMount Night with CS-Mount (no lens)	Mx-O-SMA-B-6NCS
Sensor Module Night with CSVario-Objektiv B045-100-CS, white	Mx-O-SMA-S-6NCSV
Sensor Module Night with CSVario-Objektiv B045-100-CS, black	Mx-O-SMA-S-6NCSV-b
BlockFlexMount Night with CSVario-Objektiv B045-100-CS	Nur Selbstmontage

Sensor Modules and BlockFlexMounts Night with Longpass filter (LPF), 6MP image sensor (B/W: 3072 x 2048), IP66 (sensor modules) and IP30 (BlockFlexMounts)

Sensor Module Night+LPF with Fisheye lens B016 (103° x 77°), white	Mx-O-SMA-S-6L016
Sensor Module Night+LPF with Fisheye lens B016 (103° x 77°), black	Mx-O-SMA-S-6L016-b
BlockFlexMount Night+LPF with Fisheye lens B016 (103° x 77°)	Nicht verfügbar
Sensor Module Night+LPF with Ultra Wide lens B036 (103° x 77°), white	Mx-O-SMA-S-6L036
Sensor Module Night+LPF with Ultra Wide lens B036 (103° x 77°), black	Mx-O-SMA-S-6L036-b
BlockFlexMount Night+LPF with Ultra Wide lens B036 (103° x 77°)	Mx-O-SMA-B-6L036
Sensor Module Night+LPF with Super Wide lens B041 (90° x 67°), white	Mx-O-SMA-S-6L041
Sensor Module Night+LPF with Super Wide lens B041 (90° x 67°), black	Mx-O-SMA-S-6L041-b
BlockFlexMount Night+LPF with Super Wide lens B041 (90° x 67°)	Mx-O-SMA-B-6L041
Sensor Module Night+LPF with Wide lens B061 (60° x 45°), white	Mx-O-SMA-S-6L061
Sensor Module Night+LPF with Wide lens B061 (60° x 45°), black	Mx-O-SMA-S-6L061-b
BlockFlexMount Night+LPF with Wide lens B061 (60° x 45°)	Mx-O-SMA-B-6L061
Sensor Module Night+LPF with Standard lens B079 (45° x 34°), white	Mx-O-SMA-S-6L079
Sensor Module Night+LPF with Standard lens B079 (45° x 34°), black	Mx-O-SMA-S-6L079-b
BlockFlexMount Night+LPF with Standard lens B079 (45° x 34°)	Mx-O-SMA-B-6L079
Sensor Module Night+LPF with Tele lens B119 (31° x 23°), white	Mx-O-SMA-S-6L119
Sensor Module Night+LPF with Tele lens B119 (31° x 23°), black	Mx-O-SMA-S-6L119-b
BlockFlexMount Night+LPF with Tele lens B119 (31° x 23°)	Mx-O-SMA-B-6L119
Sensor Module Night+LPF with Distant Tele lens B237 (15° x 11°), white	Mx-O-SMA-S-6L237
Sensor Module Night+LPF with Distant Tele lens B237 (15° x 11°), black	Mx-O-SMA-S-6L237-b
BlockFlexMount Night+LPF with Distant Tele lens B237 (15° x 11°)	Mx-O-SMA-B-6L237

Technical Specifications

MOBOTIX S16 DualFlex



Sensor Modules and BlockFlexMounts Nighth with Longpass filter (LPF), 6MP image sensor (B7W: 3072 x 2048), IP66 (sensor modules) and IP30 (BlockFlexMounts)

Sensor Module Night+LPF with Super-Tele lens B500 (8° x 6°), white	Mx-O-SMA-S-6L500
Sensor Module Night+LPF with Super-Tele lens B500 (8° x 6°), black	Mx-O-SMA-S-6L500-b
BlockFlexMount Night+LPF with Super-Tele lens B500 (8° x 6°)	Mx-O-SMA-B-6L500

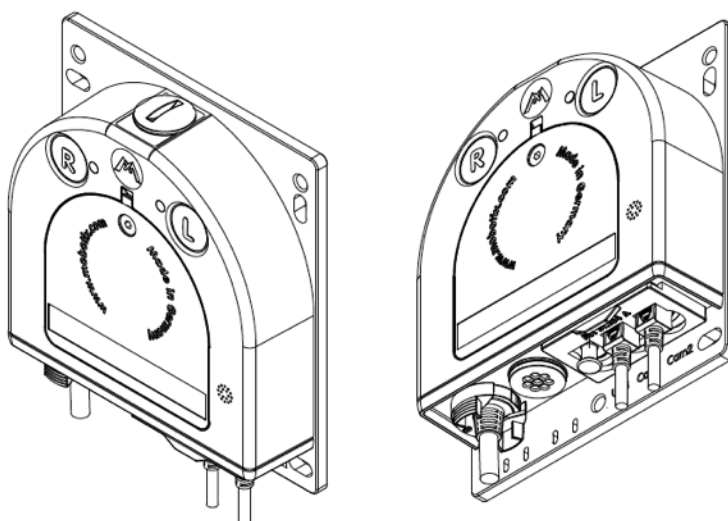
Sensor Module Night+LPF with CS-Mount (no lens), white	Nicht verfügbar
Sensor Module Night+LPF with CS-Mount (no lens), black	Nicht verfügbar
BlockFlexMount Night+LPF with CS-Mount (no lens)	Mx-O-SMA-B-6LCS

Sensor Modules Thermal, NETD 50 mK, measuring range -40 to 550 °C, IP66 (all)

Thermal Sensor Module with metal housing, lens T079 (45° x 32°)	Mx-O-SMA-TS-T079
Thermal Sensor Module with metal housing, lens T119 (25° x 19°)	Mx-O-SMA-TS-T119
Thermal Sensor Module with metal housing, lens T237 (17° x 13°)	Mx-O-SMA-TS-T237
PTMount Thermal, lens T079 (45° x 32°), white	Mx-O-SMA-TP-T079
PTMount Thermal, lens T119 (25° x 19°), white	Mx-O-SMA-TP-T119
PTMount Thermal, lens T237 (17° x 13°), white	Mx-O-SMA-TP-T237
PTMount Thermal, lens T079 (45° x 32°), black	Mx-O-SMA-TP-T079-b
PTMount Thermal, lens T119 (25° x 19°), black	Mx-O-SMA-TP-T119-b
PTMount Thermal, lens T237 (17° x 13°), black	Mx-O-SMA-TP-T237-b

Sensor Modules Thermal with Thermal Radiometry (TR), NETD 50 mK, measuring range -40 to 550 °C, IP66 (all)

Thermal Sensor Module TR with metal housing, lens R079 (45° x 32°)	Mx-O-SMA-TS-R079
Thermal Sensor Module TR with metal housing, lens R119 (25° x 19°)	Mx-O-SMA-TS-R119
Thermal Sensor Module TR with metal housing, lens R237 (17° x 13°)	Mx-O-SMA-TS-R237
PTMount Thermal TR, lens R079 (45° x 32°), white	Mx-O-SMA-TP-R079
PTMount Thermal TR, lens R119 (25° x 19°), white	Mx-O-SMA-TP-R119
PTMount Thermal TR, lens R237 (17° x 13°), white	Mx-O-SMA-TP-R237
PTMount Thermal TR, lens R079 (45° x 32°), black	Mx-O-SMA-TP-R079-b
PTMount Thermal TR, lens R119 (25° x 19°), black	Mx-O-SMA-TP-R119-b
PTMount Thermal TR, lens R237 (17° x 13°), black	Mx-O-SMA-TP-R237-b





Under no circumstances can the camera itself or its thermographic image sensors be used in the design, the development or in the production of nuclear, biological or chemical weapons or in the weapons themselves.