

# Creative Solution M12-DevKit



The HiRes Video Company

**MOBOTIX**



## Your Ideas. Our Solution.

M12 DevKit is the ideal solution for all non-standard applications. It is a high-resolution dual IP camera that has been designed specifically for customized, concealed installations. With the M12 DevKit, there are no limits to your ideas.



## MOBOTIX HiRes video replaces up to 6 cameras ...

- Dual-camera module system for individual built-in solutions
- Up to two separately linked, freely selectable image sensors
- Optional: MxLink extension set with 1 meter cable
- Integrated DVR functionality: slot for SD card
- Digital continuous pan, tilt and zoom
- Integrated microphone and loudspeaker
- Video management software download free of charge

... starting at € 1098\* (DevKit board incl. protective housing, sensor & lens)

### For Even Greater Flexibility: MxLink

The sensor boards are located separately from the camera board. The new, optional MxLink extension set makes it now possible to position any image sensor up to one meter (3.3 feet) away from the camera.

HiRes <b>3 Megapixel</b> 2048 x 1536 Software zoom
Skyline <b>Format free</b> Each image format freely definable
<b>30 Frames/s</b> VGA (640 x 480) 12 F/s Mega
<b>Virtual PTZ</b> Digital pan, tilt, zoom
<b>Backlight</b> Safe using CMOS without mechanical iris
<b>Internal DVR</b> Internal via SD card, external via Network
Win/Lin/Mac <b>Recording</b> via Network on PC up to 1 Terabyte
Microphone & speaker <b>Audio</b> bi-directional via IP, variable framerates
SIP-Client with video <b>IP Telephony</b> Alarm notify, cam remote control
<b>VideoMotion</b> Multiple windows precision pixel-based
-22°F ... +140°F <b>Weatherproof</b> -30° ... +60°C, IP65, no heating necessary
IEEE 802.3af <b>PoE</b> Network power even in winter
<b>Robust</b> No moving parts fiber glass housing
MxCC <b>Licence free</b> Video-Management- Software

\* 1/2009 • MSRP (Manufacturer's suggested retail prices) • Prices ex-works Winnweiler, Germany (EXW) • Excluding VAT and any other handling charges • Information subject to change without notice!

Technical Specifications M12-DevKit	
<b>Models</b>	Sec
<b>Lenses</b>	22 to 135 mm format, horizontal angle 90° to 15°, CS lenses can also be used (see CS adapter)
<b>Sensitivity</b>	Color: 1 lux (t=1/60 s), 0.05 lux (t=1/1 s) B/W: 0.1 lux (t=1/60 s), 0.005 lux (t=1/1 s)
<b>Sensor</b>	1x or 2 x 1/2" CMOS, progressive scan
<b>Max. image resolution</b>	Color: 2048 x 1536 (3Mega), Black/white: 1280 x 960 (Mega)
<b>Image format</b>	2048 x 1536, 1280 x 960, 1024 x 768, 800 x 600, 768 x 576 (D1), 704 x 576 (TV-PAL), 640 x 480, 384 x 288, 352 x 288, 320 x 240, 160 x 120, Free image format selection (e.g. 1000 x 200 for skyline)
<b>Max frame rate (M-JPEG)</b>	VGA: 16 fps, TV-PAL: 12 fps, Mega: 6 fps, 3Mega: 4 fps (Live/Recording)
<b>Video stream (MxPEG)</b>	VGA: 30 fps, TV-PAL: 24 fps, Mega: 14 fps, 3Mega: 10 fps (Live/Recording/Audio)
<b>Image compression</b>	MxPEG, M-JPEG, JPG, H.263 (Video-VoIP-Telephony)
<b>Internal DVR</b>	Slot for SD card (max. 16 GB)
<b>External storage</b>	Directly on NAS and PC/Server without additional recording software
<b>Software (inclusive)</b>	Video management software MxEasy, Control room software MxControlCenter
<b>Image processing</b>	Backlight compensation, automatic white balance, image distortion correction, video sensor (motion detection)
<b>Virtual PTZ</b>	Digital pan/tilt/zoom, continuous 8x zoom
<b>Alarm/Events</b>	Events are triggered by integrated multi-window motion detection, external signal, temperature sensor, pre- and post-alarm images, notification via e-mail, FTP, telephony (VoIP, SIP), ISDN, visual/acoustic alarm or switching output
<b>Audio</b>	Integrated microphone and loudspeaker, line-in/line-out, lip-synchronous audio and audio recording
<b>Interfaces</b>	Ethernet 10/100, ISDN, USB, RS232, 1x In, 1x Out, Audio Line-In/Line-Out, emergency power supply
<b>Video/Telephony</b>	VoIP/SIP, two-way speaker, remote control of camera in- and outputs, event display
<b>Security</b>	User/group management, HTTPS/SSL, IP address filter, IEEE 802.1x, Intrusion Detection
<b>Certificates</b>	EMC (living environments, industry, rail), CE, FCC
<b>Power supply</b>	Power over Ethernet (IEEE 802.3af; Class 0)
<b>Operating conditions</b>	IP65 (DIN EN 60529), -30° to +60°C, (-22° to +140°F)
<b>Dimensions</b>	WxDxH: 14.8 x 5.1 x 21.1 cm, weight: approx. 610 g (DevKit + housing), approx. 100 g, (board)
<b>Standard delivery</b>	Transparent sensor board housing, software manual, patch cable, assembly key, mounting screws. Sensor boards, lenses and MxLink must be ordered separately!

M12-DevKit	Available Accessories M12-DevKit				
<b>DevKit in protective housing</b> MX-M12-DevKit-Board  <ul style="list-style-type: none"> <li>Dual-camera board</li> <li>Up to two image sensors</li> <li>Day and night operation</li> <li>Protective housing (IP65)</li> </ul>	<b>DevKit extension (1m)</b> MX-Link-1  <ul style="list-style-type: none"> <li>DevKit extension set; extending the sensor connection up to 1 m</li> <li>Tx module, Rx module and 1 m connection cable</li> </ul>	<b>Sensor boards (M14)</b> Color: MX-M12-DevKit-C B/W: MX-M12-DevKit-BW  <ul style="list-style-type: none"> <li>Color sensor: 2048x1536 Sensitivity: 1-0.05 lux</li> <li>B/W sensor: 1280x960 Sensitivity: 0.1-0.005 lux</li> <li>M14 lens mount</li> <li>30 cm ribbon cable (12")</li> </ul>	<b>Sensor in aluminum block (M14)</b> MX-M12-DevKit-M14-C MX-M12-DevKit-M14-BW  <ul style="list-style-type: none"> <li>Color sensor: 2048x1536</li> <li>B/W sensor: 1280x960</li> <li>M14 lens mount</li> <li>Aluminum block</li> <li>30 cm ribbon cable (12")</li> </ul>	<b>Sensor in aluminum block (CS)</b> MX-M12-DevKit-CS-C MX-M12-DevKit-CS-BW  <ul style="list-style-type: none"> <li>Color sensor: 2048x1536</li> <li>B/W sensor: 1280x960</li> <li>CS lens mount</li> <li>Aluminum block</li> <li>30 cm ribbon cable (12")</li> </ul>	<b>CSVario lens</b> MX-OPTCS-L24-54  <ul style="list-style-type: none"> <li>Vario lens, in connection with CS mount adapter</li> <li>Corresponds roughly to a 24 to 54 mm camera</li> </ul>

	L22 Super Wide Angle 90°	L32 Wide Angle 60°	L43 Wide Angle 45°	L65 Tele 31°	L135 Tele 15°
<b>Lenses</b>					
	approx. 90°H x 67°V at 10 m appr. 20.0 x 13.3 m	approx. 60°H x 45°V at 10 m appr. 11.5 x 8.2 m	approx. 45°H x 34°V at 10 m appr. 8.2 x 6.1 m	approx. 31°H x 23°V at 10 m appr. 5.5 x 4.0 m	approx. 15°H x 11°V at 10 m appr. 2.6 x 1.9 m

## HiRes Video Innovations

The German company MOBOTIX AG is known as the leading pioneer in network camera technology and its decentralized concept has made high-resolution video systems cost efficient.

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