



## Your Ideas. Our Solution.

M12 DevKit is the ideal solution for all non-standard applications. It is a high-resolution dual IP camera with two separate image sensors 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

### HiRes Video Innovations

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



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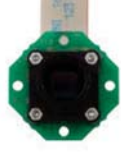
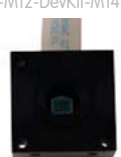


# Technical Specifications M12-DevKit



The HiRes Video Company

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) (Live/Recording)</b>	VGA: 16 fps, TV-PAL: 12 fps, Mega: 6 fps, 3MEGA: 4 fps
<b>Video stream (MxPEG) (Live/Recording/Audio)</b>	VGA: 30 fps, TV-PAL: 24 fps, Mega: 14 fps, 3MEGA: 10 fps
<b>Image compression</b>	MxPEG, M-JPEG, JPEG, H.263 (only Video-VoIP)
<b>Internal DVR</b>	SD card (up to 32 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, RS232, 3 x In, 1 x Out
<b>Video phone</b>	VoIP, SIP, two-way speaker, remote control via DTMF signaling, event notification
<b>Security</b>	User-/Group management, HTTPS/SSL, IP address filter, IEEE 802.1x, intrusion detection, digital image signature
<b>Certificates</b>	EMC (living environments, industry)
<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 board housing, software manual, patch cable, assembly key, mounting screws, sensor boards, lenses and MxLink must be ordered separately!

Technical information subject to change without notice!

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: max. 0.05 lux (1/1 s)</li> <li>B/W sensor: 1280x960 Sensitivity: max. 0.005 lux (1/1 s)</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 lens mount</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°
Lenses					
	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

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