



### **Unobtrusive. Flexible. Brilliant.**

The S74 provides possibilities for different needs at installation sites. For example, other than building, it is suitable to be mounted on an equipment or a vehicle. With the next generation EDGE processing power, the S74 also support configurable apps for different applications.

- Compact decentralized EDGE architecture IoT video system operates without a centralized computer and digital video recorder (DVR)
- Meets the highest cyber security standards withstanding independent penetration tests
- Camera body connects up to 4 discreet sensor modules with cable up to 3 metres apart
- Support Ultra Low Light 4 MP Day & Night optical sensor module with automatic day/night switching
- Wide Dynamic Range (WDR) with up to 120 dB
- Optional module available for thermal radiometry (TR), infra red (IR) and function modules such as MultiSense
- Support AI Apps and video analytics with deep learning capabilities
- Can be deployed under robust outdoor environment:  $-40$  to  $65$  °C/ $-40$  to  $149$  °F, IP66, and IK10

# Technical Specifications MOBOTIX S74

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## Hardware

Image sensor (color or B&W sensor)	up to 4K UHD 3840x2160, 16:9, 1/1,8"
Light sensitivity	- Color sensor (day): 0,1 lx @ 1/60s; 0,005 lx @ 1s - BW sensor (night): 0,02 lx @ 1/60s; 0,001 lx @ 1s
Exposure control	Manual and automatic mode 1 s to 1/16,000 s
Video codecs	H.264, H.265 with Triple Streaming MxPEG+ MJPEG
IK protection class	IK10 (housing)
IP protection class	IP66
Ambient temperature (range, including housing)	-40 to 65 °C/-40 to 149 °F/95 % rel. humidity (non-condensing)
Internal DVR, out of the box	MicroSD card (8 GB), MxPEG+ recording only
I/Os	1 input/1 output via IO Interface Board (Mx-F-S7A-INT01)
Microphone/Speaker	Functional audio module, max. 4.5 Watt (see <a href="#">Supported Functional Modules, p. 7</a> ) Microphone Sensitivity: -35 +-4dB (0dB = 1V/pa, 1kHz) Speaker: 0,9W at 80hm
Passive infra-red sensor (PIR)	Available with functional module, max. 4.5 Watt (see <a href="#">Supported Functional Modules, p. 7</a> )
Infra-red illumination	Three functional modules for wide-angle, standard, and tele lenses
Range of infra-red illumination	Up to 30 m/100 ft (may be more depending on scene)
Max. power consumption	25 Watt
PoE standard	PoE Plus (802.3at-2009)/Class 4
Interfaces	4 sensor / functional modules Ethernet 1000BaseT USB-C
Mounting Options	Wall-mountable

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# Technical Specifications MOBOTIX M73

Dimensions (height x width x depth)	36 x 232 x 110 mm
Weight without sensor modules	1.130g
Housing	Aluminum, PBT-30GF
Detailed technical documentation	<a href="http://www.mobotix.com">www.mobotix.com</a> > <a href="#">Support</a> > <a href="#">Download Center</a> > <a href="#">Marketing &amp; Documentation</a>
MTBF	80,000 hours
Certificates	EN 55032:2012AC:2013 Class A, EN 55035:2017, EN 50121-4:2016, EN 61000-6-1:2007, EN 61000-6-2:2015, EN 61000-6-3:2007A1:2011+AC:2012, EN 61000-6-4:2007A1:2011, EN50581:2012, EN 62368-1:2014+AC:2015A11:2017+AC:2017, 47 CFR Part 15b Class A, AS/NZS CISPR 32:2015 Class A
Protocols	DHCP (client and server), DNS, ICMP, IGMP v3, IPv4, IPv6, HTTP, HTTPS, FTP, FTPS, NFS, NTP (client and server), RTP, RTCP, RTSP, SIP (client and server), SMB/CIFS, SNMP, SMTP, SSL/TLS 1.3, UDP, VLAN, VPN, Zeroconf/mDNS
Manufacturer warranty	3 years

## Image Formats, Frame Rates, Image Storage

Available video codecs	MxPEG+/MJPEG/H.264/H.265
Image resolutions	VGA 640x360, XGA 1024x576, HD 1280x720, FullHD 1920x1080, QHD 2560x1440, 4K UHD 3840x2160
H.264 multi streaming	Triple Streaming
Multicast stream via RTSP	Yes
Max. image resolution (dual image of both sensors)	4K UHD 3840x2160 (8MP)
Max. frame rate	MxPEG: 20@4K, H.264: 30@4K, H.265: 30@4K

# Technical Specifications MOBOTIX S74

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## General Features

WDR	Up to 120 dB
Software features	<ul style="list-style-type: none"><li>- H.264, H.265 Multistreaming</li><li>- Multicast stream via RTSP</li><li>- Digital pan, tilt, zoom / VPTZ( up to 8x zoom)</li><li>- Genetec protocol integration</li><li>- Custom exposure zones</li><li>- Snapshot recording (pre/post-alarm images)</li><li>- Continuous recording</li><li>- Event recording</li><li>- Time controlled flexible event logic</li><li>- Weekly schedules for recordings and actions</li><li>- Event video and image transfer via FTP and email</li><li>- Playback and QuadView via web browser</li><li>- Animated logos on the image</li><li>- Master/Slave functionality</li><li>- Privacy zone scheduling</li><li>- Remote alarm notification (network message)</li><li>- Programming interface (HTTP-API)</li><li>- MOBOTIX MessageSystem</li></ul>
ONVIF compatibility	Profile S, T
Master/Slave functionality	Yes
Remote alarm notification	email, network message (HTTP/HTTPS), SNMP, MxMessageSystem
DVR/storage management (MxPEG+ only)	Within the camera via microSD card, on external USB and NAS devices, different streams for live image and recording, MxFFS with buffered archive, pre- and post-alarm images, storage monitoring with error reporting
Camera and data security	User and group management , SSL connections, IP-based access control, IEEE 802.1X, intrusion detection, digital image signature

## Video Analysis

Video motion detection	Yes
MxActivitySensor	Version 1.0, 2.1 and object-based MxAnalytics AI
ONVIF compatibility	Profile S, T*
MxAnalytics	Heatmap, people counting & object-based counting
MOBOTIX App support	Yes

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## Video Management Software

MxManagementCenter	Yes (MxMC 2.2 and higher) <a href="http://www.mobotix.com">www.mobotix.com</a> >Support >Download Center >Software Downloads
MxBell	Yes <a href="http://www.mobotix.com">www.mobotix.com</a> >Support >Download Center >Software Downloads

## Dimensions of Sensor Modules

Dimensions (height x width)	58 x 42,5 (50 mm)
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## Weight of Sensor Modules

Standard Sensor Modules	max. 150g
Functional Modules	max. 150g
Thermal Sensor Module	380g
PTMount Thermal	890g

## Features Thermal Sensors

Sensitivity thermal image sensor	Typ. 50 mK, IR range 7.5 to 13.5 $\mu\text{m}$ ; Temperature Measurement Range: $-40$ to $550$ $^{\circ}\text{C}$ / $-40$ to $1022$ $^{\circ}\text{F}$
Image sensor: Thermal image sensor	Uncooled microbolometer, CIF: 336 x 256 pixels / VGA: 640 x 480
Max. image size MX sensor module	Can be scaled up to 3072 x 2048 (6MP), automatically scaled to size of MX sensor module
Max. frame rate Thermal image sensor	9 fps (when displaying an MX sensor module and a thermal sensor module, the overall frame rate of the camera is reduced to 9 fps)
Software (included)	Video management software MxManagementCenter

# Technical Specifications MOBOTIX S74

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## Supported Sensor Modules

Sensor Module	Order Code
Sensor module with standard 45° lens	Mx-0-M7SA-8DN100
	Mx-0-M7SA-8D100
	Mx-0-M7SA-8N100
	Mx-0-M7SA-4DN100
Sensor module with tele lens 30°	Mx-0-M7SA-8DN150
	Mx-0-M7SA-8D150
	Mx-0-M7SA-8N150
	Mx-0-M7SA-4DN150
Sensor module with tele lens 15°	Mx-0-M7SA-8DN280
	Mx-0-M7SA-8D280
	Mx-0-M7SA-8N280
	Mx-0-M7SA-4DN280
Sensor module with wide angle lens 60°	Mx-0-M7SA-8DN080
	Mx-0-M7SA-8D080
	Mx-0-M7SA-8N080
	Mx-0-M7SA-4DN080
Sensor module with super wide angle lens 95°	Mx-0-M7SA-8DN050
	Mx-0-M7SA-8D050
	Mx-0-M7SA-8N050
	Mx-0-M7SA-4DN050
Sensor module with ultra wide angle lens 120° 4K	Mx-0-M7SA-8DN040
	Mx-0-M7SA-8D040
	Mx-0-M7SA-8N040
	Mx-0-M7SA-4DN040
Sensor Module	Order Code
Sensor module with standard 45° lens	Mx-0-M7SA-8DN100
	Mx-0-M7SA-8D100
	Mx-0-M7SA-8N100
	Mx-0-M7SA-4DN100

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## Supported Thermal Sensor Modules

Sensor module	Order code
CIF Thermal 45° x 35°	Mx-0-M7SA-336TS100
CIF Thermal 25° x 19°	Mx-0-M7SA-336TS150

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Sensor module	Order code
CIF Thermal 17° x 13°	Mx-0-M7SA-336TS280
CIF Thermal Radiometry 45° x 35°	Mx-0-M7SA-336RS100
CIF Thermal Radiometry 25° x 19°,	Mx-0-M7SA-336RS150
CIF Thermal Radiometry 17° x 13°	Mx-0-M7SA-336RS280
VGA Thermal 90° x 69°	Mx-0-M7SA-640TS050
VGA Thermal 69° x 56°	Mx-0-M7SA-640TS080
VGA Thermal 45° x 37°	Mx-0-M7SA-640TS100
VGA Thermal 30° x 26°	Mx-0-M7TA-640TS150
VGA Thermal Radiometry 90° x 69°	Mx-0-M7TA-640RS050
VGA Thermal Radiometry 69° x 56°	Mx-0-M7TA-640RS080
VGA Thermal Radiometry 45° x 37°	Mx-0-M7SA-640RS100
VGA Thermal Radiometry 30° x 26°	Mx-0-M7SA-640RS150

The **Thermal Radiometry** variants automatically alarm when the temperature exceeds or falls below defined limits. This is crucial for the detection of fire or heat sources. Up to 20 different temperature events can be configured simultaneously in so-called TR windows or over the complete sensor image over a temperature range of  $-40$  to  $550$  °C/ $-40$  to  $1022$  °F.

The **Thermal** variants only measure in the center of the image (2x2 pixel spotmeter).

## Supported Functional Modules

Functional audio module	via IO Interface Board
Functional MultiSense module	Mx-F-MSA with PIR sensor, temperature sensor, illumination sensor
Functional IR Light module	Mx-F-IRA-W for Wide-Angle Lens (95°) Mx-F-IRA-S for Standard Lens (45° – 60°) Mx-F-IRA-T for Tele Lens (15° – 30°)
Power consumption	IR Light Module: 4,2 W at 100% brightness.

## Dimensions

### Note

You can download the drilling template from the section [Drilling Template](#) or on the MOBOTIX website: [www.mobotix.com](http://www.mobotix.com) >Support >Download Center >Marketing & Documentation >Drilling Templates.

### Attention!

Always print or copy at 100% of the original size!

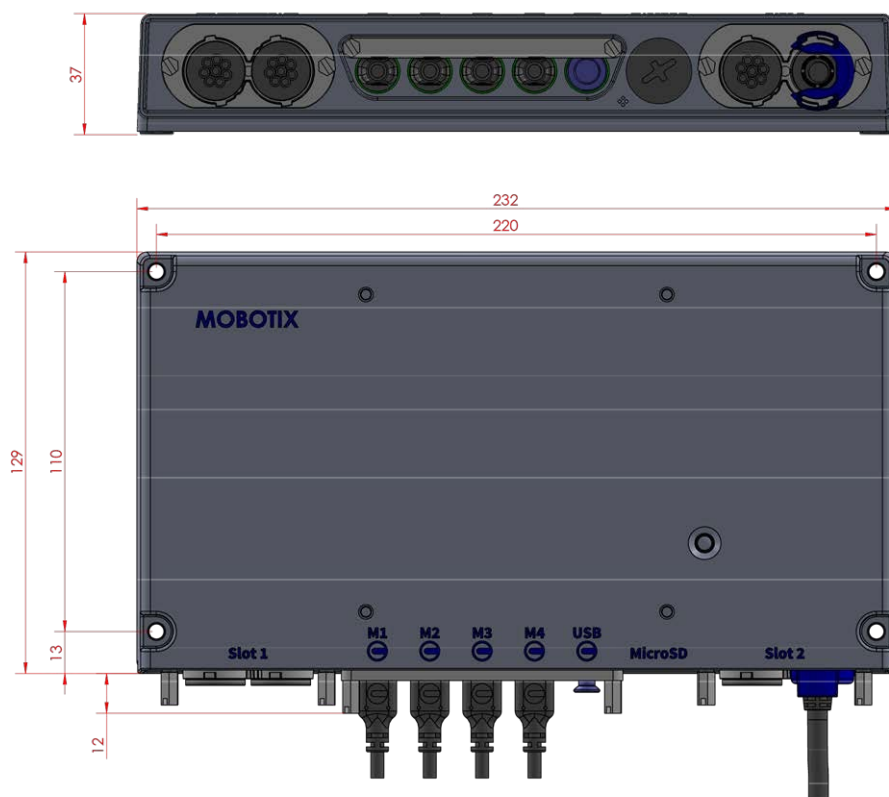


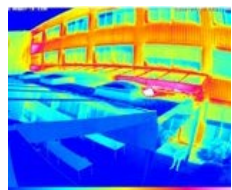
Fig. 1: S74: All measurements in mm



## DIN EN 50132-7

As specified in the DIN EN 50132-7 standard, there are six different levels of quality for video surveillance. “Inspect” is the level with the highest demands on image quality, whereas “Monitor” is the one with the lowest. These can be used to determine the maximum distance between camera and surveillance area, the required minimum resolution, and the most suitable camera lens for optimal coverage of the surveillance area.

						
	B040 Wide	B050 Wide	B080 Standard	B100 Standard	B150 Tele	B280 Tele
Focal Length	4 mm	5 mm	8 mm	10 mm	18 mm	28 mm
Aperture f/	1,8	1,8	1,8	1,8	1,8	1,8
Image angle (horiz. x vertical)	120° x 60°	95° x 50°	60° x 33°	45° x 25°	30° x 17°	15° x 8,5°
Image width/height (dist. 1 m)	3,5 / 1,2 m	2,2 / 0,9 m	1,2 / 0,6 m	0,8 / 0,4 m	0,5 / 0,3 m	0,3 / 0,1 m
Image width/height (dist. 10 m)	34,6 / 11,5 m	21,8 / 9,3 m	11,5 / 5,9 m	8,3 / 4,4 m	5,4 / 3,0 m	2,6 / 1,5 m
Image width/height (dist. 50 m)	173,2 / 57,7 m	109,1 / 46,6 m	57,7 / 29,6 m	41,4 / 22,2 m	26,8 / 14,9 m	13,2 / 7,4 m
Maximum Distances In Meters @ 4K UHD (3840 x 2160)						
Monitor	149,65 m	185,29 m	291,68 m	389,73 m	578,12 m	1.162,65 m
Detect	74,82 m	92,64 m	145,84 m	194,86 m	289,06 m	581,33 m
Observe	29,93 m	37,06 m	58,34 m	77,95 m	115,62 m	232,53 m
Recognize	14,96 m	18,53 m	29,17 m	38,97 m	57,81 m	116,27 m
Identify	7,48 m	9,26 m	14,58 m	19,49 m	28,91 m	58,13 m
Inspect	1,87 m	2,32 m	3,85 m	4,87 m	7,23 m	14,53 m



The MOBOTIX 7 camera S74 can also be equipped with 50 mK thermal sensor modules – even retroactively. You can choose from all thermal sensor variants with CIF resolution (336 x 256) already known from the M16 thermal imaging camera plus additional thermal sensor modules with VGA resolution (640 x 480). Thanks to the increased number of pixels and the extended image angles of up to 90° x 69° with the VGA thermal modules, more scene details can be seen, larger areas can be covered (perimeter protection) and temperature differences can be detected from greater distances than with the CIF variants.

### Thermal Sensor Module Variants for M73

Thermal resolution	Image angle (horiz. x vert.)	TR technology for temperature measurement
CIF: 336 x 256 pixels	17° x 13°	Available with and without TR technology
CIF: 336 x 256 pixels	25° x 19°	Available with and without TR technology
CIF: 336 x 256 pixels	45° x 35°	Available with and without TR technology
VGA: 640 x 480 pixels	32° x 26°	Available with and without TR technology
VGA: 640 x 480 pixels	45° x 37°	Available with and without TR technology
VGA: 640 x 480 pixels	69° x 56°	Available with and without TR technology
VGA: 640 x 480 Pixel	90° x 69°	Available with and without TR technology

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(Information accurate as of 1 November 2020)

Our organisation is certified according to ISO27001, ISO9001, ISO14001 and ISO13485 standards.



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