

Smart cameras

pictor

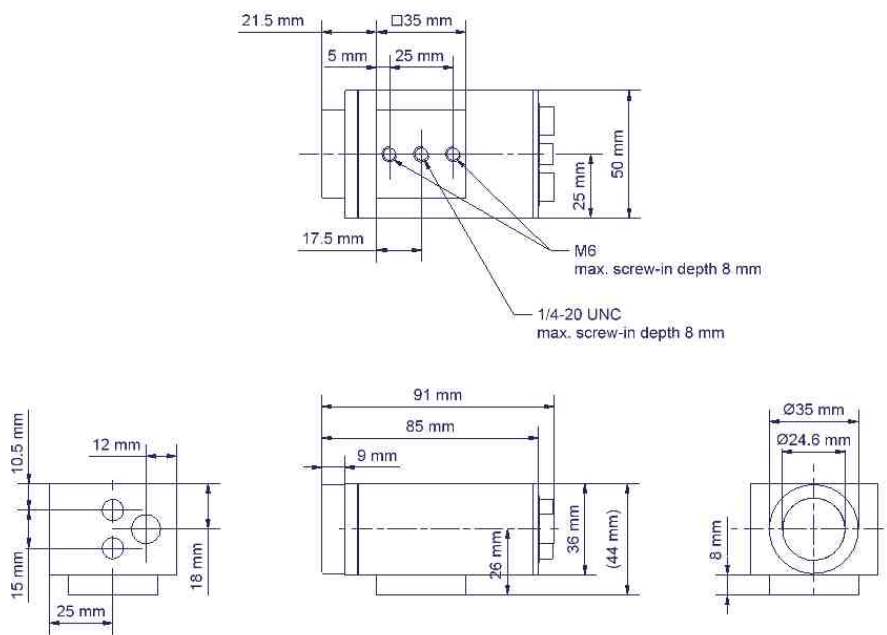
pictor® MxxE series

Product features

- The Machine Vision stand-alone solution
- Sensor, framegrabber, image processor, communication interfaces and software on board
- Available in monochrome and color
- Compact and robust construction
- High performance image processing with DSP on industrial platform
- Extremely rapid image acquisition and processing
- A large number of powerful algorithms for industrial Machine Vision
- The common industrial protocols for communication with other systems
- Graphic programming under Windows based on dialogues



Engineering drawing



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Definition

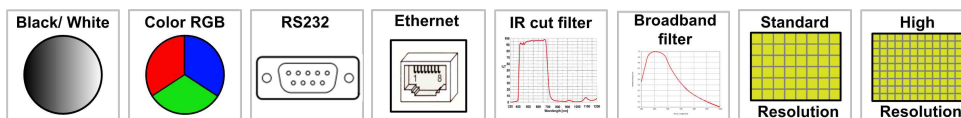
The MxxE series is available in monochrome and color variant.

Cameras of the MxxE series united Ethernet and RS232 interface in one unit.

The MxxE series is available as with IR-cut filter or Broadband filter.

All cameras of the series have a image sensor with standard resolution 640 x 480 pixels (VGA).

Variants



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Technical data

Model	pictor M48/E 4-20-319	pictor M48/EC 4-20-321	pictor M58/E 4-20-323	pictor M58/EC 4-20-325
Processor	TI-DSP 400 MHz, 3200 MIPS	TI-DSP 400 MHz, 3200 MIPS	TI-DSP 400 MHz, 3200 MIPS	TI-DSP 400 MHz, 3200 MIPS
Memory	32 MB SDRAM, 3 MB Flash	32 MB SDRAM, 3 MB Flash	32 MB SDRAM, 3 MB Flash	32 MB SDRAM, 3 MB Flash
Video exit	no	no	no	no
Data interface	Ethernet (max.16 connections), RS232 (to 115 kbaud)	Ethernet (max.16 connections), RS232 (to 115 kbaud)	Ethernet (max.16 connections), RS232 (to 115 kbaud)	Ethernet (max.16 connections), RS232 (to 115 kbaud)
Process interface	4 Input and 4 Output 24 VDC, opto decoupled	4 Input and 4 Output 24 VDC, opto decoupled	4 Input and 4 Output 24 VDC, opto decoupled	4 Input and 4 Output 24 VDC, opto decoupled
Fast TTL Trigger	In/ Out, Switching time < 0.5 µs	In/ Out, Switching time < 0.5 µs	In/ Out, Switching time < 0.5 µs	In/ Out, Switching time < 0.5 µs
Objective connection	C-Mount	C-Mount	C-Mount	C-Mount
Voltage supply	12 ... 24 VDC, max. 130 mA	12 ... 24 VDC, max. 130 mA	12 ... 24 VDC, max. 130 mA	12 ... 24 VDC, max. 130 mA
Weight	260 g	260 g	260 g	260 g
Dimensions	91 x 50 x 45 mm ³	91 x 50 x 45 mm ³	91 x 50 x 45 mm ³	91 x 50 x 45 mm ³
Degree of protection	IP50	IP50	IP50	IP50
Operating temperature	0 ... 45 °C	0 ... 45 °C	0 ... 45 °C	0 ... 45 °C
Air humidity	max. 80 %, not condensing	max. 80 %, not condensing	max. 80 %, not condensing	max. 80 %, not condensing
Sensor	1/3" Sony CCD, b/w, progressive scan	1/3" Sony CCD, colour, progressive scan	1/3" Sony CCD, b/w, progressive scan	1/3" Sony CCD, colour, progressive scan
Pixel number	640 x 480	640 x 480	1024 x 768	1024 x 768
Full frame frequency	32 Hz	32 Hz	16 Hz	16 Hz
Shutter	33 µs ... 2s	33 µs ... 2s	46 µs ... 2 s	46 µs ... 2s
Analogue-digital converter	10 bit	10 bit	10 bit	10 bit

Variants

Variants	IR-cut filter	Broadband filter
Order number M48E	4-20-319	4-20-320
Order number M48EC	4-20-321	4-20-322
Order number M58E	4-20-323	4-20-324
Order number M58EC	4-20-325	4-20-326

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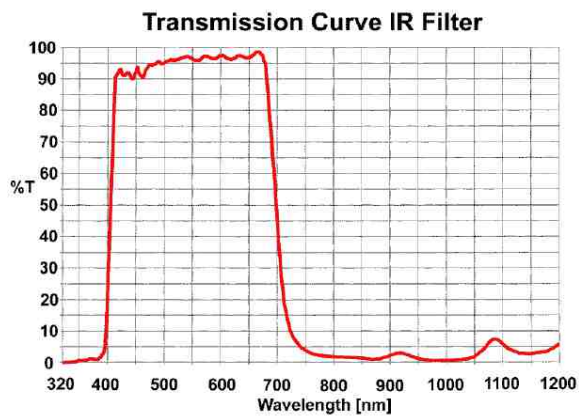
Notes

Accessories

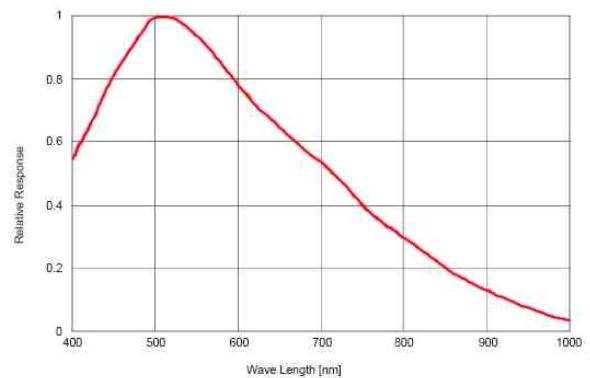
Order no.	Name	Description
4-40-181	V24 serial cable C4,5m	accessory equipment for pictor M16xx/M18xx and Mxx/E
4-40-182	V24 serial cable C4, 10m	accessory equipment for pictor M16xx/M18xx and Mxx/E
4-40-183	V24 serial cable C4, 25m	accessory equipment for pictor M16xx/M18xx and Mxx/E
4-40-203	Ethernet cable, 5m	accessory equipment for pictor M1xxx/E and Mxx/E
4-40-204	Ethernet cable, 10m	accessory equipment for pictor M1xxx/E and Mxx/E
4-40-209	plug type,power supply,24V DC	accessory equipment for pictor M1xxx and Mxx/E
4-40-223	PLC/power cable, 5m	accessory equipment for pictor M1xxx and Mxx/E
4-40-224	PLC/power cable, 10m	accessory equipment for pictor M1xxx and Mxx/E
4-40-225	PLC/power cable, 25m	accessory equipment for pictor M1xxx and Mxx/E
4-40-226	Ethernet cross-module	accessory equipment for pictor M1xxx, Mxx/E
3-90-025	PKM-PLC8	Process modul IO 8 IN/ 8 OUT dig. IO for pictor and vicosys via RS232 or Ethernet
3-90-026	PKM-PB	Process modul Profibus DP for pictor and vicosys via RS232 or Ethernet

Technical diagram

IR-cut filter



Broadband filter



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Technical diagram

Broadband filter

