



exo990MU3

Specifications

Resolution [MP]	1.3 MP
Resolution (h x v)	1280 x 1024 px
Frame rate (max.)	125.4 fps
Chroma	SWIR
Interface	USB3 Vision (Micro-B)

Sensor

Sensor	IMX990AABJ
Manufacturer	Sony
Sensor type	Area SWIR CMOS
Shutter type	global shutter
Sensor size (h x v)	6.4 x 5.12 mm
Optical diagonal	8.2 mm
Sensor format	8.2mm (Type 1/2)
Pixel size (h x v)	5 x 5 μ m

Camera

Exposure modes	MANUAL;AUTO
Trigger modes	INTERNAL;SOFTWARE;EXTERNAL
Exposure time (min)	15 μ s
Exposure time (max)	0.5 sec
Pixel format / max	mono8, mono12packed / 12 bit
Gain modes	manual, auto
Dynamic range (max)	57 dB (dep. on environment)

1stVision, Inc.

40 Shattuck Road, Suite 227
Andover, MA 01810

Office 978-474-0044 / West Coast 949-361-0350 / Canada 519-963-4800



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Internal memory	256 MB SDRAM, 32 MB Flash
Feature Set	
AOI	yes
LUT	yes
Offset	yes
Binning	yes
Image flip	yes
Two-Point NUC	yes
Defect pixel correction	yes
Sequencer	yes
Dynamic HotPixel Correction	yes
Housing	
Lens mount	C-Mount
Dimensions (w x h x d)	50 x 50 x 42.5 mm
Weight	138 g
Operating temperature (housing)	-10 to 60 °C
Ambient humidity	10 to 90 % (non-condensing)
Protection class	IP40
I/O-Interfaces	
Input up to 24V	2 x
Input OPTO	1 x
Output open drain	4 x
I/O RS-232	1 x
Power supply	10 to 25 V (DC)

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Power consumption	4 W (dep. on operating mode)
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