ME2P-2621-15U3M NIR

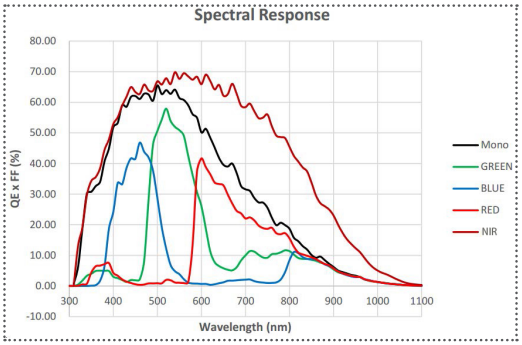
MERCURY2 PRO Series 26.2MP CMOS USB3.0 Area Scan Camera

The ME2P-2621-15U3M NIR camera is a NIR enhanced USB3.0 Vision camera with the Gpixel GMAX0505 CMOS sensor. The sensor has optimized response in the near-infrared band. The ME2P-2621-15U3M NIR camera has opto-isolated I/Os that adapt to specific needs. Four-side mounting holes provide maximum installation flexibility for ME2P-U3. Thanks to the extremely compact (36mm × 31mm × 38.8mm), robust metal housings and locking screw connectors, the MERCURY2 PRO cameras can secure the reliability of cameras deployed in harsh environments.

Applications

Suitable for machine vision applications such as industrial inspection, medical, scientific research, education, security and so on.

Spectral Response



Features

- Trigger mode: Frame Start /Frame Burst Start
- Support Gamma, Binning, Decimation, Digital Shift
- Support Black Level, Auto Black Level
- Support Flat Field Correction and Static Defect Pixel Correction
- Support Noise Reduction and Sharpness
- Programmable LUTs and storable user sets
- Support Timer and Counter
- Support Remove Parameter Limit to expand the range of exposure, gain, white balance, and so on
- 16KB data storage area for saving algorithm coefficients and parameter configuration

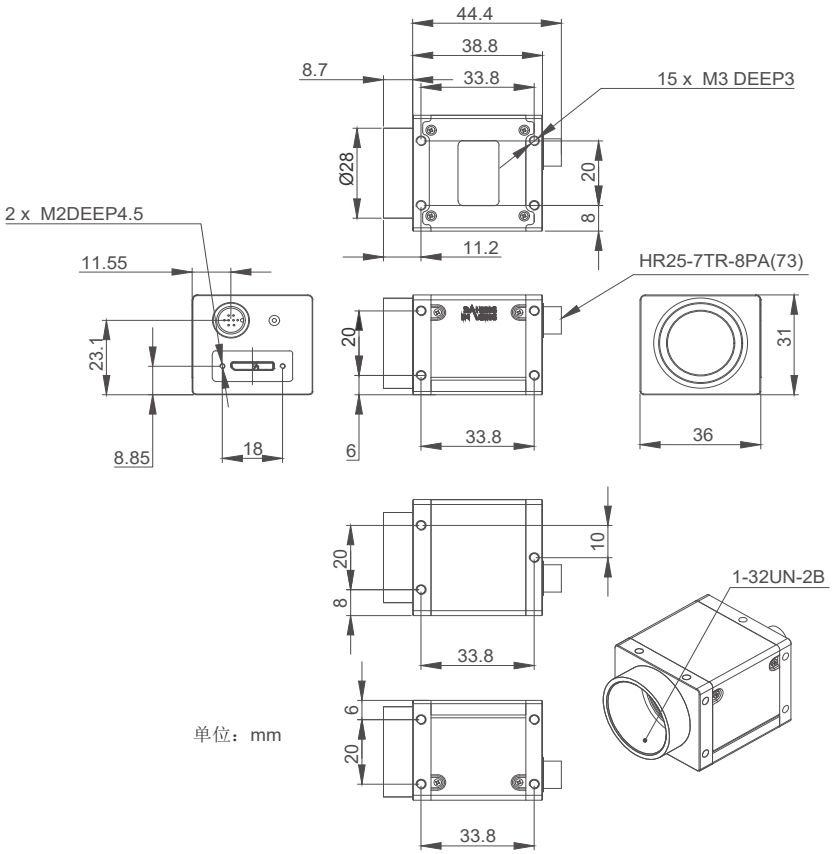
Specifications

Model	ME2P-2621-15U3M NIR
Resolution	5120(H) × 5120(V)
Sensor	GMAX0505 Global shutter CMOS
Sensor Format	1.1"
Pixel Size	2.5μm × 2.5μm
Frame Rate	15.1 fps
ADC	12 bit
Pixel Bit Depth	8 bit, 12 bit
Mono/Color	Mono, NIR
Pixel Formats	Mono8 / Mono12
SNR	36.15 dB
Exposure Time	Standard: 11μs ~ 1s, Actual Steps: 1μs
Gain	0dB ~ 16dB; Default: 0dB, Steps: 0.1dB
Binning	1×1, 1×2, 1×4, 2×1, 2×2, 2×4, 4×1, 4×2, 4×4
Decimation	Horizontal FPGA, Vertical Sensor: 1×1, 1×2, 1×4, 2×1, 2×2, 2×4, 4×1, 4×2, 4×4
Synchronization	Hardware trigger, software trigger
Acquisition Mode	Single frame, Continuous, Software trigger, Hardware trigger
Reverse X/Y	Reverse X/Y
I/O Interface	1 input and 1 output with opto-isolated, 2 programmable GPIOs
Data Interface	USB3.0
Power Supply	Power through USB3.0 interface
Power Consumption	< 3.5 W @ 5 VDC
Operating Temp.	0°C ~ +45°C
Storage Temp.	-20°C ~ +70°C
Operating Humidity	10% ~ 80%
Lens Mount	C / CS
Dimensions	36(W) × 31(H)× 38.8(L) mm (without lens adapter or connectors)
Weight	66 g
Software	3rd-party software such as HALCON, MERLIC and LabVIEW
OS	32bit / 64bit Windows, Linux, Android, ARMv7, ARMv8
Conformity	CE, RoHS, FCC, ICES, UKCA, USB3.0 Vision®, GenICam®

I/O Interface

Pin	Definition	Core Color	Description
1	Line 0+	Green	Opto-isolated input +
2	GND	Blue	GPIO GND
3	Line 0-	Grey	Opto-isolated input -
4	NC	Purple	NC
5	Line 2	Orange	GPIO input/output
6	Line 3	Pink	GPIO input/output
7	Line 1-	White Green	Opto-isolated output -
8	Line 1+	White Blue	Opto-isolated output +

Technical Drawing



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