

# ME2P-530-72U3M NIR

## MERCURY2 Plus Series 5.3MP CMOS USB3.0 Area Scan Camera



The ME2P-530-72U3M NIR camera is a NIR USB3.0 Vision camera with the Onsemi PYTHON 5000 CMOS sensor. The ME2P-530-72U3M 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 Plus cameras can secure the reliability of cameras deployed in harsh environments.

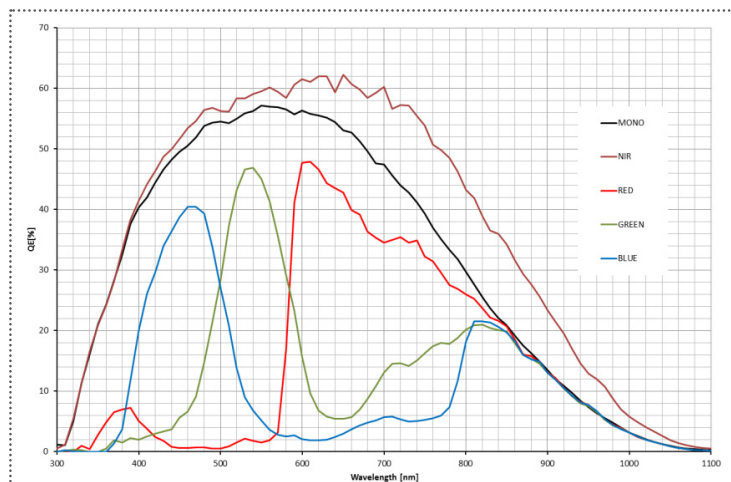
### Applications

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

### Features

- Gamma, Binning, Decimation, Digital Shift, Black Level
- Defect Pixel Correction, Flat Field Correction
- Noise Reduction, Sharpness
- Timer, Counter, LUT, User Set Control
- Support Remove Parameter Limit to expand the range of exposure, gain, and so on
- 16KB data storage area for saving algorithm coefficients and parameter configuration

### Spectral Response



## Specifications

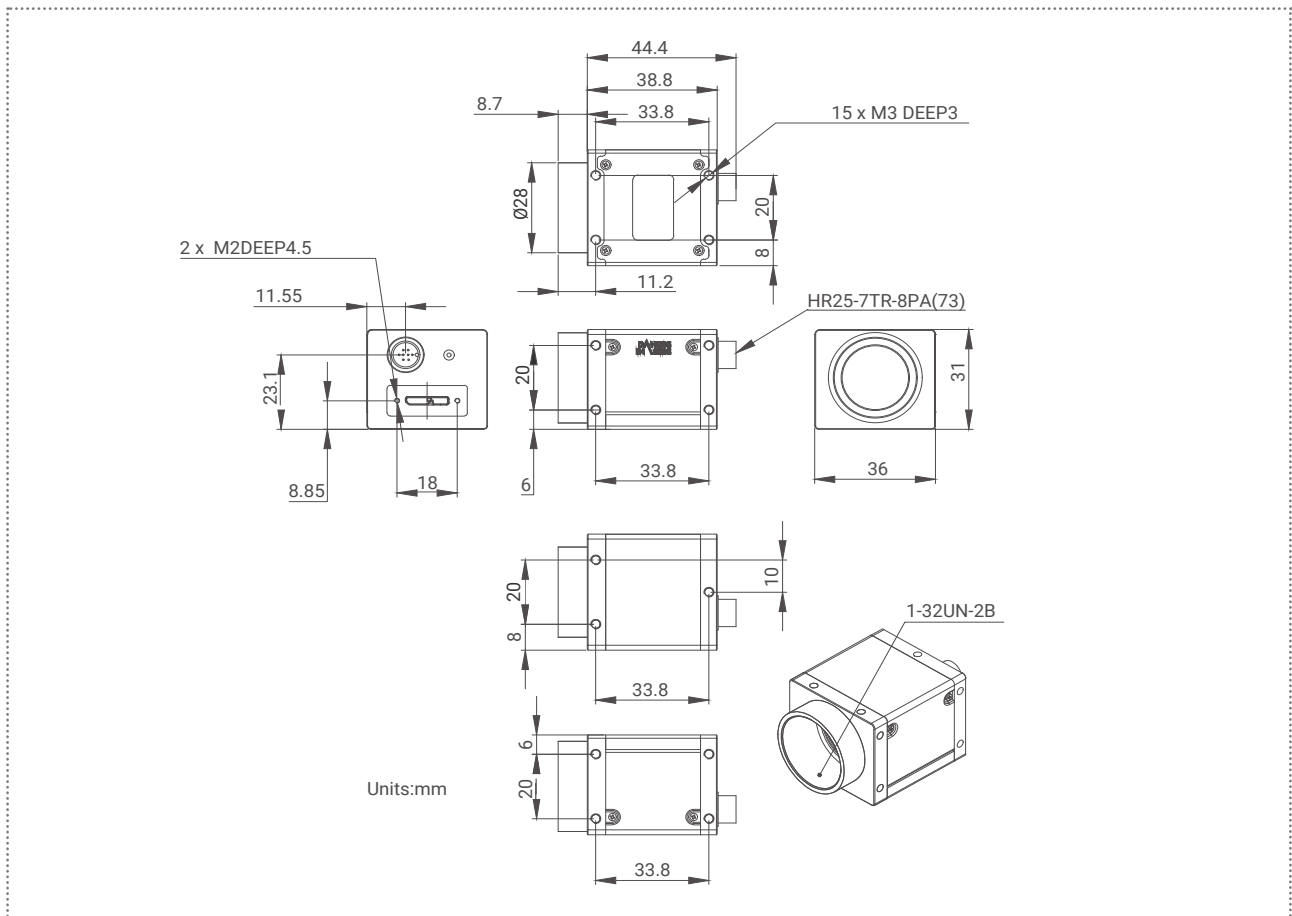
Model	ME2P-530-72U3M NIR
Resolution	2592(H) × 2048(V)
Sensor	Onsemi PYTHON 5000 Global shutter CMOS
Sensor Format	1"
Pixel Size	4.8μm × 4.8μm
Frame Rate	72.4 fps
ADC	12 bit
Pixel Bit Depth	8 bit, 10 bit
Mono/Color	Mono, NIR
Pixel Formats	Mono8 / Mono10
SNR	40.3 dB
Exposure Time	Standard: 20μs ~ 100ms, Actual Steps: 1 row period
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	Sensor: 1×1, 1×2, 2×1, 2×2
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 over USB3.0
Typical Power	3.25 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	Description
1	Line 0+	Opto-isolated input +
2	GND	GPIO GND
3	Line 0-	Opto-isolated input -
4	NC	NC
5	Line 2	GPIO input/output
6	Line 3	GPIO input/output
7	Line 1-	Opto-isolated output -
8	Line 1+	Opto-isolated output +

Technical Drawing



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