ME2P-1842-6GC-P

18MP CMOS GigE Area Scan Camera



The ME2P-1842-6GC-P camera is a monochrome/color GigE Vision camera with the Gpixel GMAX2518 CMOS sensor. Four-side mounting holes provide maximum installation flexibility. Thanks to the extremely compact, robust metal housings and locking screw connectors, the MERCURY2 Plus cameras can secure the reliability of cameras deployed in harsh environments.

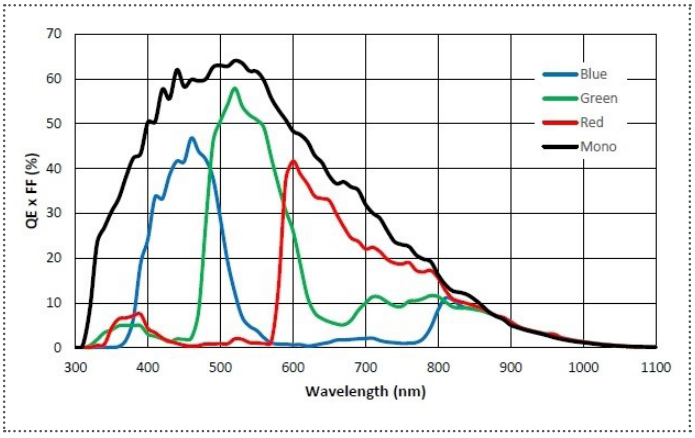
Applications

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

Features

- Decimation, Gamma, Digital Shift, Black Level, Static Defect Pixel Correction, Sharpness
- Timer, Counter, LUTs and User Set Control
- Color models support Light source preset, Color Transformation Control and Saturation
- 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

Spectral Response



Specifications

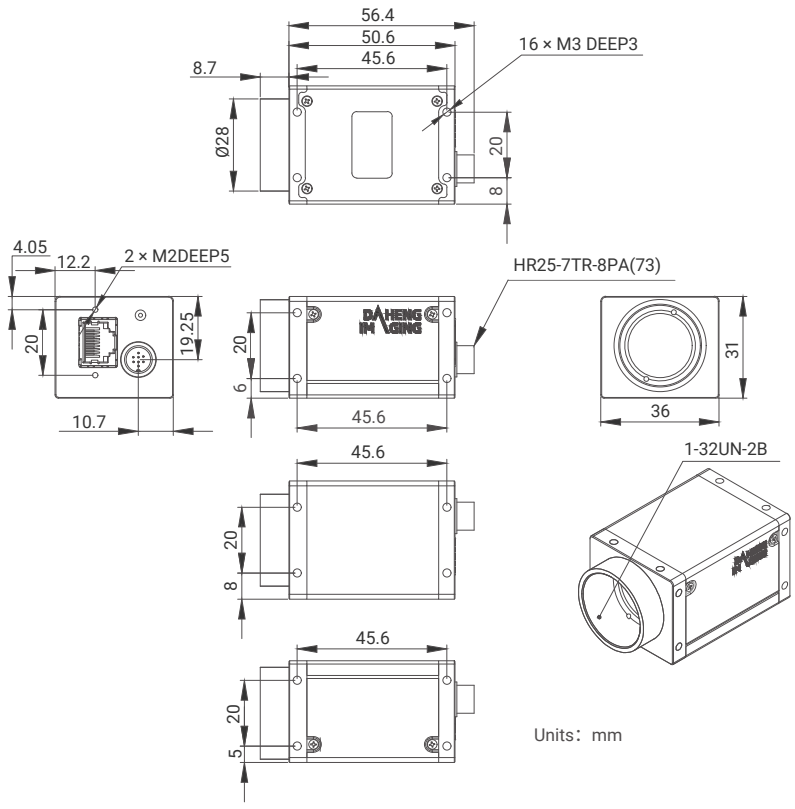
Model	ME2P-1842-6GC-P
Resolution	4508(H) × 4096(V)
Sensor	Gpixel GMAX2518 Global shutter CMOS
Sensor Format	1"
Pixel Size	2.5μm × 2.5μm
Frame Rate	Default: 5.8 fps, Max: 6.4 fps
ADC	12 bit
Pixel Bit Depth	8 bit, 12 bit
Mono/Color	Color
Pixel Formats	Bayer GB8 / Bayer GB12
SNR	38.5 dB
Exposure Time	Standard: 14μs~1s, Actual Steps: 1μs
Gain	0dB~16dB, Default: 0dB, Steps: 0.1dB
Binning	-
Decimation	Horizontal FPGA, Vertical Sensor: 1×1, 1×2, 2×1, 2×2
Synchronization	Hardware trigger, software trigger
Acquisition Control	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	GigE PoE
Power Supply	PoE (Power over Ethernet, IEEE802.3af compliant) or 12VDC-10% ~ 24VDC+10% supplied via the camera's 8-pin Hirose connector
Typical Power	4.02 W @ 12 VDC, 4.64 W @ PoE
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) × 50.6(L) mm (without lens adapter or connectors)
Weight	75 g
Software	3rd-party software such as HALCON, VisionPro and LabVIEW
OS	32bit / 64bit Windows, Linux, Mac OS
Conformity	CE, RoHS, FCC, ICES, UKCA, GigE Vision®, GenICam®

I/O Interface



Pin	Definition	Description
1	Line 0+	Opto-isolated input +
2	GND	PWR GND & GPIO GND
3	Line 0-	Opto-isolated input -
4	POWER_IN	Camera external power, +12V DC~+24V DC
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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