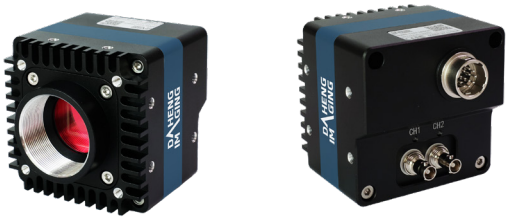
MARS-810-190X2M-UV F02

8.1MP CMOS CXP2.0 Area Scan Camera



The MARS-810-190X2M-UV F02 camera is equipped with Sony IMX487 Global shutter CMOS sensor and uses CoaXPress interface for high-speed transmission of image data, featuring high quality images, low power consumption, high transmission speed, stable operating capability.

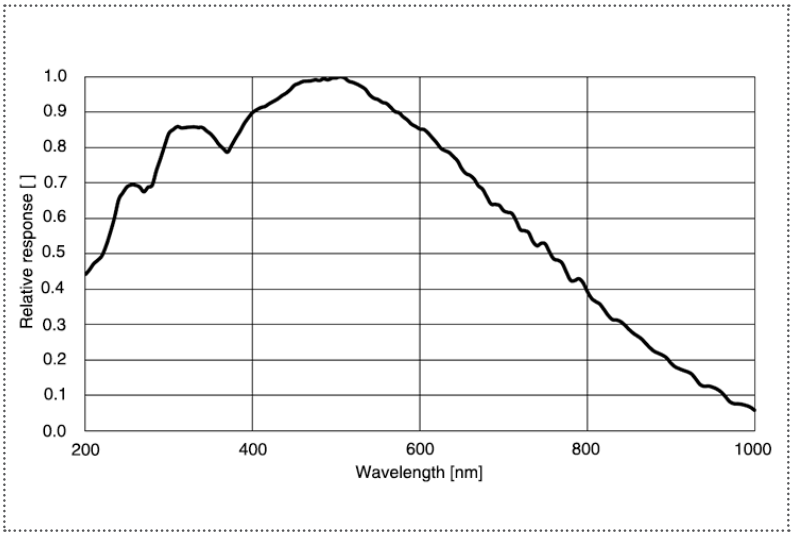
Applications

Suitable for defect inspection, discharge inspection, recycle industry, printing industry, life science and so on.

Features

- The Sequencer Control supports multiple sets of parameters configuration
- Brightness, Contrast, Gamma, Sharpness, Noise Reduction, Black Level, Timer, Counter, LUTs and User Set Control
- DAHENG IMAGING or third-party frame grabbers are available

Spectral Response



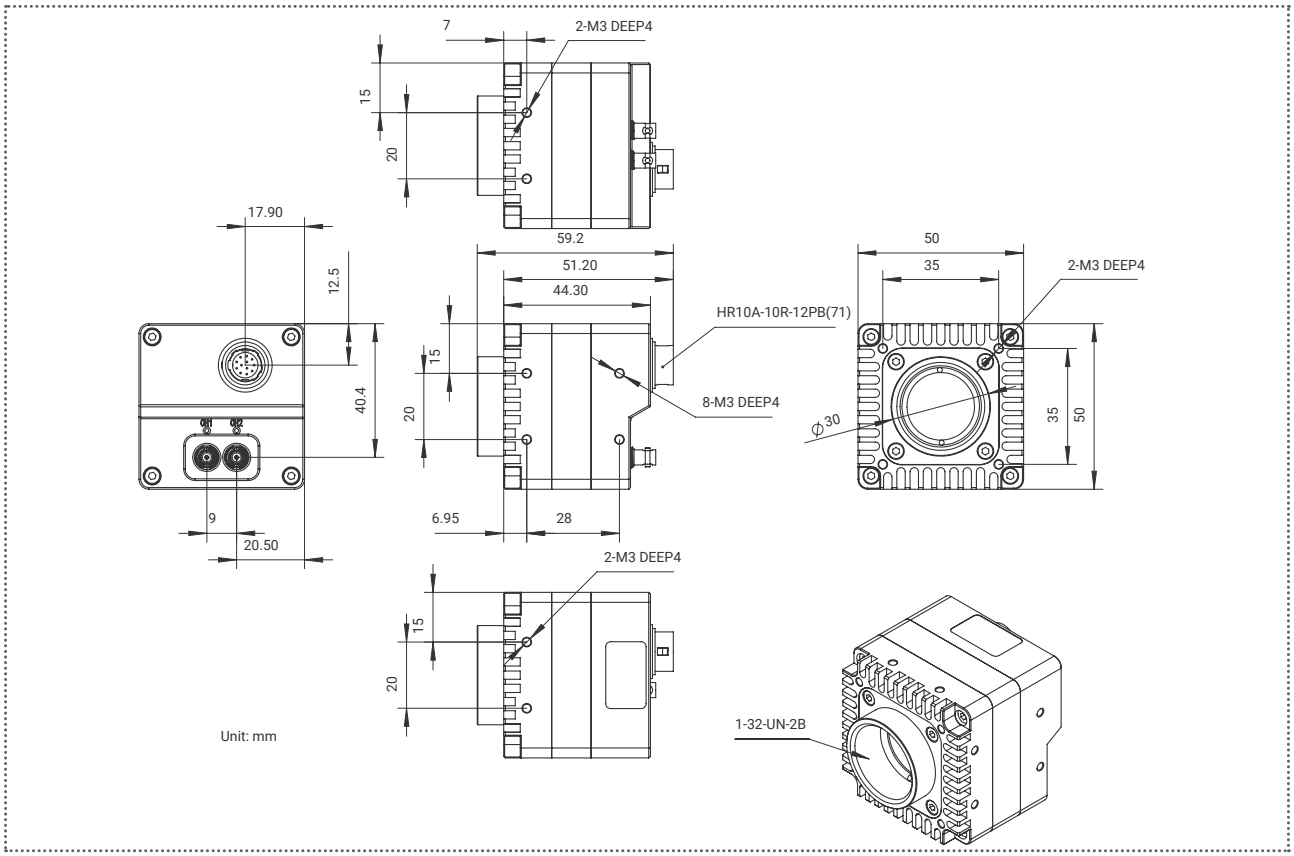
Specifications

Model	MARS-810-190X2M-UV F02
Resolution	2848(H) × 2848(V)
Sensor	IMX487 Global shutter CMOS
Sensor Format	2/3"
Pixel Size	2.74μm × 2.74μm
Frame Rate	190fps
ADC	10 bit, 12 bit
Pixel Bit Depth	8 bit, 10 bit, 12 bit
Mono/Color	Mono, UV
Pixel Formats	Mono8 / Mono10 / Mono12
SNR	40.25 dB
Exposure Time	UltraShort: 1μs ~ 2.4μs, Actual Steps: 0.1 μs Standard: 3μs ~ 1s, Actual Steps: linetime
Gain	Digital gain: 0dB~16dB, Default: 0dB, Steps: 0.1dB Analog digital: 10bit:1×, 12bit: 1× ~ 12.19×, Default: 1×
Binning	2×2
Decimation	2×2
Synchronization	Hardware trigger, software trigger
Acquisition Mode	Single frame, Continuous, Software trigger, Hardware trigger, CXP trigger
Reverse X/Y	Reverse X/Y
I/O Interface	1 input and 1 output with opto-isolated, 1 bidirectional GPIO, 1 RS232
Data Interface	CXP-12 × 2(HD-BNC)
Power Supply	PoCXP
Power Consumption	5.3W @ PoCXP
Operating Temp.	0°C ~ +45°C
Storage Temp.	-20°C ~ +70°C
Operating Humidity	10% ~ 80%
Cooling	Passive Cooling, optional: Heat Dissipation Fins
Lens Mount	C
Filters / Transparent Glass	-
Dimensions	50mm × 50mm × 59.2mm
Weight	183 g
Software	DAHENG IMAGING or third-party frame grabbers supporting software
OS	Win7 / Win8 / Win10 / Win11
Conformity	CE, RoHS, FCC, ICES, UKCA, CoaXPress2.0, GenICam

I/O Interface

PIN	Definition	Description
1	Line 0+	Opto-isolated input +
2	GND	GPIO GND
3	Line 0-	Opto-isolated input -
4	POWER_IN	-
5	Line 2	GPIO input/output
6	RS232 Rx	RS232 receive
7	Line 1-	Opto-isolated output -
8	Line 1+	Opto-isolated output +
9	GND	GPIO GND
10	GND	GPIO GND
11	POWER_IN	-
12	RS232 Tx	RS232 transmit

Technical Drawing



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