

- VGA resolution @40 fps
- USB 3.0 interface with plug and play capability, USB3.0 power supply
- Followed USB3 Vision international standard agreement, smoothly docking with third-party platforms.
- Support Windows, Linux operating platform
- Up to 128 MB local memory for burst transmission and retransmission



Applied range • Defect Detection • Surface Patch Detection • Visual Positioning • Size Measuring • QR Code Reading • VR/AR • Logistics

Camera	Mars 4096S-40um
Resolution [H*V]	4096x 2160
Sensor	IMX255
Sensor Size	1"
Sensor Tecchnology	Global, CMOS
Pixel Pize [μm]	3.45 x 3.45
Rrame Rate [fps]	40
Data Bit	8bit / 10bit
Exposure Time	26 μs ~1s
Dynamic Range	>70dB
Mono/Color	Mono
Image Format	Mono:Mono8/10/10Packed
Interface	USB3.0
Synchronization	Via hardware trigger、software trigger、or free run mode
Programmable Control [ISP]	Image resolution、RGB gain、Exposure time、Contrast ratio、Gamma form、Image rollovers、Raw、LUT、Black level correction
Housing Size [l*w*h]	29.0 mm $\times$ 44.0 mm $\times$ 58.0 mm (100g)
Operating Temperature	-30~80 $^{\circ}\text{C}$ (Storage), -30~50 $^{\circ}\text{C}$ (Working)
Lenses Mount	C-Mount
Digital I/O	Opto-isolated input x 1, opto-isolated output x 1, 1 configurable input/output without opto isolation
Power Input	Via USB 3.0 interface
Power Consumption	4.0W
Driver	Mars series camera software suite or third-party USB3 Vision protocol software
Operating System	Windows, Linux
Conformity	USB3.0 Vision, GenICam

Spectral Response

