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Allied Vision Alvium USB 3.1 Cameras



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Video Output:
USB 3.1 Gen 1

Type: Monochrome Camera
Manufacturer: Allied Vision
Mounting Threads: ¼-20 and M6 with Tripod Mount Adapter #14-156
Image Buffer: 256KB
Camera Family: Alvium
Model Number: 1800 U-1242m
Imaging Sensor: Sony IMX545
Type of Sensor: Progressive Scan CMOS
Type of Shutter: Global
Camera Sensor Format: 1/1.1"
Resolution (MegaPixels): 12.40
Pixels (H x V): 4,128 x 3,008
Pixel Size, H x V (µm): 2.74 x 2.74
Sensing Area, H x V (mm): 11.3 x 8.2
Frame Rate (fps): 28.00
Pixel Depth: 8/10/12 bit
Exposure Time: 160µs - 10s @ 450 MBps 168µs - 10s @ 200 MBps
Connector: USB 3.1 Gen 1, Micro-B
Power Supply: Power over USB or via GPIO
Power Consumption (W): 3.4
GPIOs: 4 Programmable TTL GPIOs
Synchronization: Hardware Trigger (GPIO) or Software Trigger
Dimensions (mm): 30 x 29 x 29 (includes connectors and lens mount)
Weight (g): 45
Mount: C-Mount
Housing: Partial
Interface Port Orientation: Back Panel
Operating Temperature (°C): -20 to +65 (housing temperature)
Storage Temperature (°C): -20 to +85
GPIO Connector Type: 7-pin JST
Machine Vision Standard: USB3 Vision v1.0, GenICam

Regulatory Compliance

RoHS 2015: Compliant
Certificate of Conformance: View
Reach 235: Compliant