

Allegro Awaiba Orion 2K Line Scan



US3
VISION

SPECIFICATIONS

Image Sensor Model	Orion 2K
Sensor Format	Line Scan
Max Resolution	2064
Max Line Rate	20kHz, 80kHz
Burst Line Rate	20kHz, 80kHz into internal buffer
Pixel Size	10 x 10 um, 10 x 200 um
Special Mode	Non-destructive readout
Vision Standard	USB3 Vision™ Specification v1.0
Analog-to-Digital Converter	13-bit ADC
Sensor Video Data	11-bit or 13-bit digital data
Image Data Formats	Mono8/12 Packed, Mono14msb
FPGA	Altera Cyclone V
On-Board Memory	256 MB
Dynamic Range	59 dB
Partial Image Modes	Programmable region of interest
Gain Control	Programmable digital gain
Shutter Speed	Programmable
Synchronization	Via external trigger and software trigger
Trigger Latency / Jitter	Latency TBD, Jitter +/- 0.5 microsecond
Interface Port	USB3
General Purpose I/O Port	12 Pin 7 mm Push-pull connector Programmable opto-isolated trigger input 2 Programmable opto-isolated strobe outputs
Power / Voltage	Via 12 pin Push-pull connector 6 V at 2 A or USB3 connector 5 V +/- 10% at 0.9 A max
Dimensions (W x H x L)	52 x 46 x 39 mm (camera body)
Mass	165 g (without optics)
Lens Mount	C-Mount or CS-Mount (optional)
Adjustable Back Focal Length	Optional
Emissions Compliance	CE, FCC, RoHS
Operating Temperature	-0° to 50° C
Storage Temperature	-30° to 70° C
Vibration Resistance	10 G (14 Hz to 200 Hz)
LED Indicator	Status and power monitoring Dual color
Enclosure	Pre-drilled mounting holes Tripod mount available Heavy duty aluminum Sealed Sensor Cavity
Warranty	4 years – Industry leading

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