

# ALLEGRO Awaiba Orion 2K Line Scan



## SPECIFICATIONS

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