Lucid Vision Labs Atlas10 ATX470S-CT, Sony IMX492, 47MP, Color Camera

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LUCID Vision Labs Atlas10 10GigE Power over Ethernet (PoE) Cameras (Front, C-Mount)

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SPECIFICATIONS

General

Type:

Color Camera

Model Number:

ATX470S-CT

Manufacturer:	
Lucid Vision Labs	
Camera Series:	
Atlas10	
Spectrum:	
Color	

Physical & Mechanical Properties

Dimensions (mm):	
55 x 55 x 95.5 (excludes connectors and lens mount)	
Weight (g):	
304	
Housing:	
Full	

Sensor

Image Buffer:	
380MB	
Sensor Format:	
4/3"	
Resolution (Megapixels):	
47.00	
Frame Rate (fps):	
22.60	
Pixels (H x V):	
8,192 x 5,556	
Pixel Size, H x V (µm):	
2.31 x 2.31	
Sensing Area, H x V (mm):	
18.92 x 12.83	
Imaging Sensor:	
Sony IMX492	
Type of Sensor:	
Progressive Scan CMOS	
Shutter Type:	
Rolling, Global Reset	
Pixel Depth:	
10/12 bit	
Exposure Time:	
125µs - 10s	
Dynamic Range (dB):	
12 - 27	
Machine Vision Standard:	
GigE Vision v2.0	

Electrical

Power Consumption (W):	
11.5 (External Power Supply) <12 (PoE+)	

Hardware & Interface Connectivity

Interface:	
10GigE (PoE+)	
Connector:	
10GigE, M12	
Power Supply:	
Power Supply Optional and Sold Separately:	
USA: **#18-364**	
Europe: **#18-364**	
Japan: **#18-364**	
Korea: Not Available	
China: **#18-364**	
GPIOs:	
1 opto-isolated input, 1 opto-isolated output, 2 non-isolated bi-directional ports	
Synchronization:	
Hardware Trigger (GPIO), Software Trigger, or PTP (IEEE 1588)	
Interface Port Orientation:	
Back Panel	
GPIO Connector Type:	
8-pin M8	

Threading & Mounting

Mount:	
TFL-Mount	

Mounting Threads:
2 x ¼-20 with Tripod Mount Adapter **#17-120**

Environmental & Durability Factors

Operating Temperature (°C):
-20 to +55

Storage Temperature (°C):
-30 to +60

Regulatory Compliance

Certificate of Conformance:
View

PRODUCT DETAILS

- 10GBASE-T (10GigE) Ethernet Interface with PoE+
- 5.0 to 65 Megapixel Sony 4th Gen Pregius S Sensors
- Compact 55 x 55mm Form Factor
- TFL-Mount Compatible with some **TECHSPEC® CA Series FFL Lenses**

LUCID Vision Labs Atlas10 10GigE Power over Ethernet (PoE) Cameras combine 4th generation Sony Pregius S sensors with 10GigE interface, delivering fast frame rates at high resolution and image quality in a compact and rugged housing. The 10GBASE-T Power over Ethernet PoE+ interface allows for data transfer speeds of up to 1.2 GB/s and can also provide power to the camera over one CAT6a cable up to 25m in length. The high bandwidth enables these cameras to run at high bit depths (10/12-bit) to maximize image quality while maintaining smooth frame rates. The back-illuminated CMOS sensors offer high sensitivity, high dynamic range, and low noise, and are actively aligned to the lens mount at the same optical axis to minimize performance discrepancies resulting from sensor tilt and rotation. LUCID Vision Labs Atlas10 10GigE Power over Ethernet (PoE) Cameras are GigE Vision compliant and feature rugged M12 Ethernet and M8 GPIO connectors, making them ideal choices for industrial, automotive, factory automation, process control, and other machine vision applications requiring high resolutions and bandwidth.