Lucid Vision Labs Atlas10 ATX204-CCR, Sony IMX531, 20.4MP, Right Angle Color Camera

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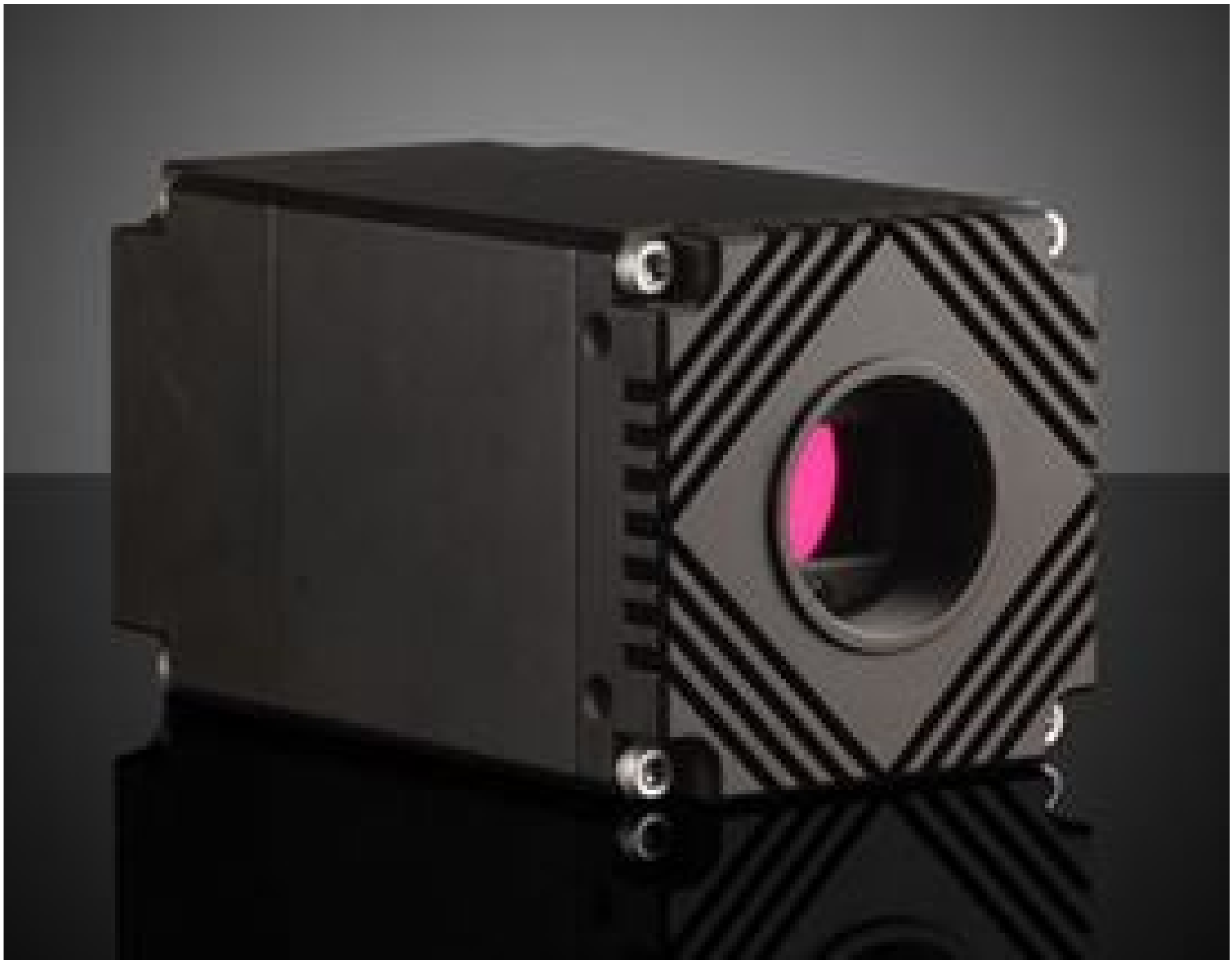

LUCID Vision Labs Atlas10 10GigE Power over Ethernet (PoE) Cameras (Front, C-Mount)

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SPECIFICATIONS

General

Type:	Color Camera
Model Number:	

ATX204S-CCR

Manufacturer:
Lucid Vision Labs

Camera Series:
Atlas10

Spectrum:
Color

Physical & Mechanical Properties

Dimensions (mm):
91 x 55 x 93.7 (excludes connectors and lens mount)

Weight (g):
250

Housing:
Full

Sensor

Image Buffer:
380MB

Sensor Format:
1.1"

Resolution (Megapixels):
20.40

Frame Rate (fps):
54.10

Pixels (H x V):
4,504 x 4,504

Pixel Size, H x V (µm):
2.74 x 2.74

Sensing Area, H x V (mm):
12.34 x 12.34

Imaging Sensor:
Sony IMX531

Type of Sensor:
Progressive Scan CMOS

Shutter Type:
Global

Pixel Depth:
8/10/12 Bit

Exposure Time:
6.24µs - 10 s (Normal); 2.296µs - 2.464µs (Short Mode)

Dynamic Range (dB):
70.7

Machine Vision Standard:
GigE Vision v2.0

Electrical

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

Hardware & Interface Connectivity

Connector:
10GigE, M12

Power Supply:
Power Supply Required 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:
C-Mount

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

Environmental & Durability Factors

Operating Temperature (°C):	Storage Temperature (°C):
-20 to +45	-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.