

Features

- 1/3" progressive scan CMOS
- 752 x 480 square pixels
- 64 fps, 10-bit image data
- A-sync reset, full frame shutter
- Digital I/O's trigger-in, strobe out
- Embedded real-time functions
- Up to 100m with CAT-6 cable
- Power over Ethernet (PoE)

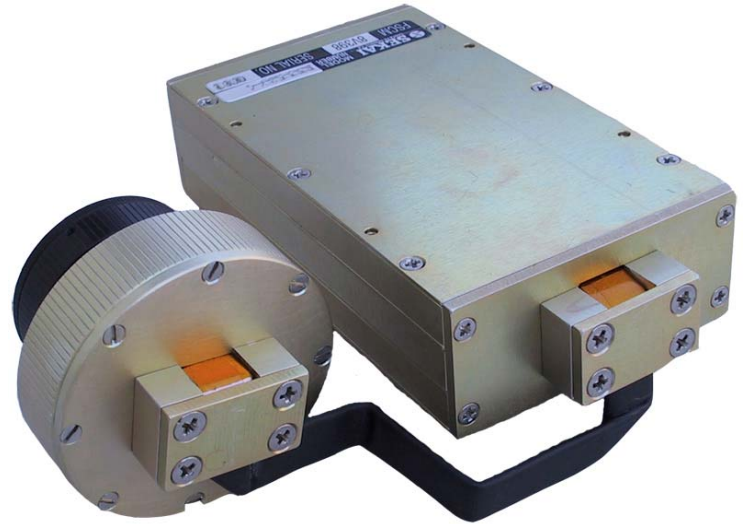
General Description

The RLC-303GE is a ruggedized remote head color GigE Vision camera. This camera is excellent for airborne applications including flight tests, reconnaissance flights, and for use in turrets/gimbals.

The GigE Vision camera standard is a great choice offering a good price/performance ratio. This standard was developed using the Gigabit Ethernet communication protocol and can be used with inexpensive standard network components. With a standard C-mount, there are limitless lens options readily available for use with this camera. Adaption of the Power over Ethernet standard allows this camera to minimize the interface by safely transferring power along with video data.

Specifications

Pick-up Device	Parallel readout CMOS
Sensor Size	4.51 x 2.88 mm
Output Image Resolution	752 x 480 pixels
Pixel Size	6 x 6 µm
Scan	Progressive
Frame Rate	64 fps
Shutter	Global
Max Shutter Time	20 ms
Min Shutter Time	29 µs
Lens Mount	C-mount
Interface	Ethernet (10/100/1000 Mbit/sec)
Memory	16MB
Digital Input	2x Optocoupler, 1x TTL
Digital Output	2x Octocoupler
Power Requirements	10-26VDC, 5W
Weight	TBD
Host Software Configuration	Any GigE Vision API Web Interface



* previous prototype shown above

Environmental Specifications*

Storage Temperature	-46 °C to +71 °C
Operating Temperature	-40 °C to +60 °C
Altitude (Norm-Operational)	Sea Level to 60,000+ ft.
Altitude (Non-Operational)*	-15,000 ft. to 60,000+ ft.
Storage Humidity	95% (50°C)-85% (38°C)
Operating Humidity	5% 90% relative humidity (non-condensing)
Vibration (Operational)	MIL-STD-810C, 514, M, 9 hrs
Shock (Operational)	MIL-STD-810C, 516, I, 3 axes, 15g, 11ms
EMI	MIL-STD-461C, RS02, RS03 (50V/m), RE03

* Design Goals
Specifications subject to change without prior notice.