GE4900

Description

16 Megapixel CCD camera 3 fps

The 16-megapixel GE4900 is a very high-resolution CCD camera with Gigabit Ethernet output. The 35 mm format sensor used in the GE4900 is the high-quality Kodak KAI-16000 CCD image sensor that provides exceptionally high resolution and good sensitivity.

The GigE Vision® compliant GE4900 works with standard gigabit Ethernet hardware and cable lengths up to 100 meters (300 ft) using conventional Cat5e network cable.
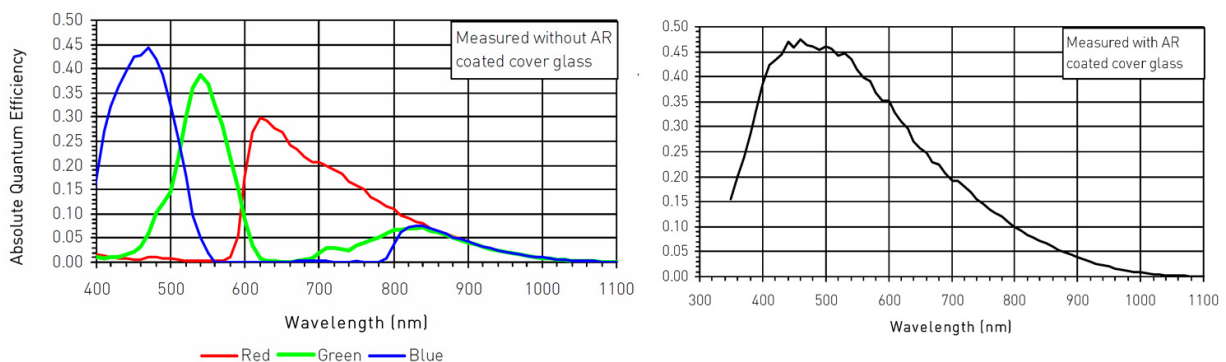
Features include:

- 16 Megapixels (4872x3248)
- 3 frames per second
- Progressive Scan - Global shutter (snapshot)
- F-mount lens mount

Specifications

Prosilica GE	GE4900
Resolution	4872 x 3248
Max frame rate at full resolution	3 fps
Type	CCD Progressive
Interface	IEEE 802.3 1000baseT
A/D	12 bit
Output	8/12 bit
Sensor Size	Type 35 mm
Sensor	Kodak KAI-16000
Cell size	7.4 µm
On-board FIFO	32 MB
Body Dimensions (L x W x H in mm)	66x66x110 including connectors, w/o tripod and lens

Download Prosilica GE technical drawing (click here)

Smart features

Features include:

- High resolution 4872x3248 pixels
- 3 frames per second
- Progressive Scan - Global shutter (snapshot)
- StreamBytesPerSecond (easy bandwidth control)
- Flexible binning
- Gigabit Ethernet interface
- GigE Vision™ compliant
- Asynchronous external trigger and sync I/O
- Region of Interest readout (AOI partial scan)
- Long cables - up to 100 m
- 32 MB resend buffer
- Screw-captivated power connection
- Easy to use software development Kit (SDK)
- Color and monochrome models
- F-mount lens mount

Applications

The GE4900 is ideal for applications requiring very high resolution. These include:

- LCD panel inspection
- semiconductor wafer inspection
- solar panel inspection
- high-resolution industrial inspection
- aerial photography
- 3-D metrology
- general machine vision
- public security
- surveillance
- traffic imaging (Intelligent Traffic Systems)
- embedded systems
- OEM applications

Case Studies:

- **Prosilica Cameras Go Airborne**
  Security & Traffic: Prosilica GE4900 used in UAV technology.

- **16 Megapixel at Work**
  Logistics: Matrix Systems & Solutions uses a Prosilica GE 4900 16-Megapixel camera to scan matrix codes on a whole box of chemical bottles in one shot.

- **High Resolution Inspection for Dental Imaging System**
  16 Megapixel Prosilica GE4900 CCD Camera Used in X-ray Quality Proofing.