PROSILICA

GE2040 / 2040C

SMARTER IMAGING FOR BETTER LIVES

ADEPT TURNKEY

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High-Performance 4 Megapixel CCD Camera

- High resolution 2048 x 2048
- 1.2" Format CCD sensor
- Fast - 15 frames per second
- Progressive Scan - Global shutter (snapshot)
- Gigabit Ethernet interface
- Long cables - up to 100 m

Resolution	2048 x 2048
Sensor Type	1.2" CCD progressive scan Kodak KAI-04022
Pixel Size (µm)	7.4 x 7.4
Maximum Frame Rate	15 fps at 2048 x 2048
Lens Mount	C-mount or F-mount with adjustable back focus
Digital Interface*	GigE Vision 1.0
Interface Type	IEEE 802.3 1000baseT
Exposure Range	75µs to 60s
Region of Interest (ROI)	Independent x and y control; 1 pixel resolution
Binning	Independent H and V control
Imaging Modes	External Trigger, Fixed frame rate, Software trigger
External Trigger Modes	Rising edge, Falling edge, Any edge, Level high, Level low
External Sync Modes	Trigger ready, Trigger input, Exposing, Readout, Imaging, Strobe, GPO
External Trigger/ Sync Connection	mini-SMB and 12-pin Hirose
Monochrome Modes	Mono8, Mono16**
Color Modes	Bayer8, Bayer16, RGB24, YUV411, YUV422, YUV444, BGR24, RGBA24, BGRA24
GPIO	1 isolated TTL input, 3 isolated TTL outputs, RS232 I/O
Power Consumption	5.5 W (12V)
Housing Size	39x51x63 mm
Weight	169 g
Conformity	CE, FCC, RoHS
SDK	Free - includes sample code and driver

*GigE Vision™ is a trademark of the Automated Imaging Association
**Mono16 is available on monochrome models only
Specifications are subject to change without notice
Please refer to the Prosilica web site for a full list of specifications

About the GE2040 / 2040C

The 4-megapixel GE2040 is a very high-resolution CCD camera with Gigabit Ethernet output. The sensor used in the GE2040 is the high-quality KAI-04022 CCD image sensor from Kodak that provides superior image quality, excellent sensitivity, and low noise.

Applications for the GE2040 include:

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

The Prosilica Advantage

- Image quality
- High reliability
- High performance
- Ultra-Compact
- Ease of use and integration
- Rich set of camera features

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