DIGITAL IMAGING
made easy

Go-21

High-Resolution USB 2.0 Digital Color Camera

The **QImaging® Go-21** color CMOS camera is designed for high-resolution image archiving in brightfield microscopy, pathology, histology, material science, and clinical applications. The Go-21 offers variable resolutions using up to 21 million pixels, thus providing the flexibility to make the most of the microscope optics. State-of-the-art design combines engineering excellence with innovative subpixel-shifting technology to enable more accurate color imaging. The camera's USB 2.0 interface provides convenience and simple plug-and-play installation via a single cable.

camera models

Includes: USB 2.0 cable, power suuply, QCapture SUite software, QCapture Pro software, and access to SDK

Color Go-21
Model: GO-21-CLR-10

camera options

Extended Warranty

features	benefits
High-Resolution, Imaging	▪ User selectable to provide full ability to match optics to camera resolution
High-Speed Readout	▪ Previewing & focusing in real time ▪ 60fps with 640 x 480 resolution ▪ 15fps with 1280 x 1024 resolution ▪ Ideal for high-resolution imaging
Low-Noise Electronics	▪ Enhanced color accuracy and detail
Flexible Exposure Control	▪ Optimal integration over a wide range of light levels
ROI (Region of Interest)	▪ Higher frame rates for previewing & focusing
USB 2.0 Connection	▪ Simple connectivity ▪ Ease of use and installation ▪ Portability with laptop computer ▪ Single-cable operation (no external control unit or framegrabber)
Extensive Application Software Support	▪ Choose from a large selection of life science & industrial software for microscopy, machine vision, & video-streaming functions

a.e.s
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The Machine Vision and Imaging Speciaists
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Go-21 Specifications

CMOS sensor	
Light-Sensitive Pixels	1280 x 1024, 2560 x 2048, 3840 x 3072, 5120 x 4096
ROI (Region of Interest)	User selectable
Exposure/Integration Control	0ms to 8.84sec
Sensor Type	CMOS, color sensor
Pixel Size	5.2µm x 5.2µm
Linear Full Well	> 20,000e-
Read Noise	20 e- rms
Shutter	Rolling shutter with single-frame capture
Digital Output	8 or 10 bits (24- or 30-bit color)
Readout Frequency	24MHz
Frame Rate	15 fps @ 1280 x 1024 resolution; 60fps @ 640 x 480 resolution
camera	
Computer Platforms/ Operating Systems*	Windows®
Digital Interface	USB 2.0
Still-Image Resolutions	User selectable: 1.3 million pixels, 5 million pixels, 10 million pixels, 21 million pixels (preferred via oversampling)
Trigger Types	Internal, Software
Normal Gain Control	1.3 to 3.88
Optical Interface	1/2", C-mount optical format
Threadmount	1/4" — 20 mount
Power Requirements	900mW; 6VDC
Weight	300g (0.67lbs)
Warranty	2 years
Operating Environment	0 to 50°C; 95% relative humidity non-condensing
Storage Temperature	-20 to 60°C

**Refer to QImaging website for detailed listing of supported operating systems.*
Note: Specifications are nominal and subject to change.

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applications

Pathology

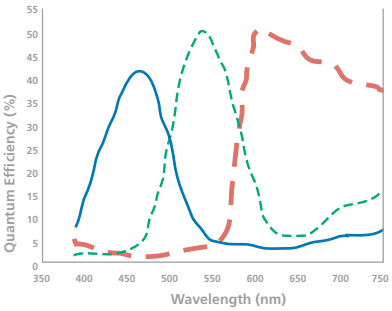
Image archiving for clinical, life science, and material science

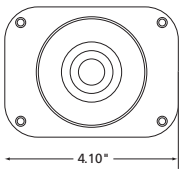
Industrial imaging

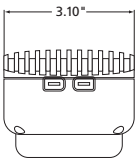
Brightfield

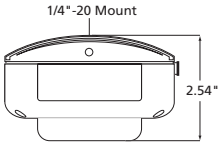
Still-image animation

spectral response



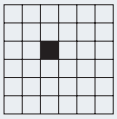




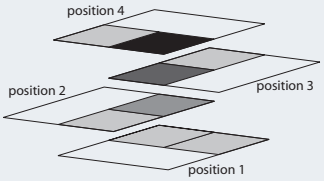


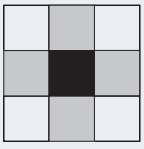
Resolution	Approximate Image Size @ 24 bits
1.3MP	3.8MB
5.0MP	15MB
10.0MP	34MB
21.0MP	60MB

Sub-pixel shifting



Single Pixel





100% black

* example shows oversampling = 2

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