

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 supply, 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 | <ul style="list-style-type: none"> User selectable to provide full ability to match optics to camera resolution |
| High-Speed Readout | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> Enhanced color accuracy and detail |
| Flexible Exposure Control | <ul style="list-style-type: none"> Optimal integration over a wide range of light levels |
| ROI (Region of Interest) | <ul style="list-style-type: none"> Higher frame rates for previewing & focusing |
| USB 2.0 Connection | <ul style="list-style-type: none"> Simple connectivity Ease of use and installation Portability with laptop computer Single-cable operation (no external control unit or framegrabber) |
| Extensive Application Software Support | <ul style="list-style-type: none"> Choose from a large selection of life science & industrial software for microscopy, machine vision, & video-streaming functions |

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 |

applications

Pathology

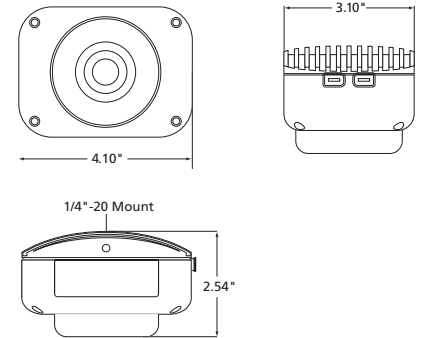
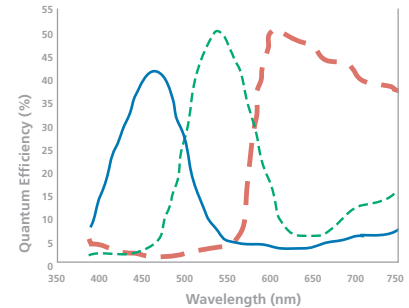
Image archiving for clinical, life science, and material science

Industrial imaging

Brightfield

Still-image animation

spectral response

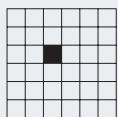


*Refer to QImaging website for detailed listing of supported operating systems.
Note: Specifications are nominal and subject to change.

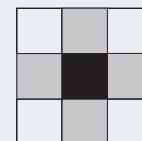
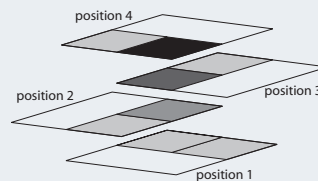
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| Resolution | Approximate Image Size @ 24 bits |
|------------|----------------------------------|
| 1.3MP | 3.8MB |
| 5.0MP | 15MB |
| 10.0MP | 34MB |
| 21.0MP | 60MB |

Sub-pixel shifting



Single Pixel



100% black

* example shows oversampling = 2



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