



## MicroVista® NIR Back-Illuminated CMOS Camera

MicroVista® NIR is the world's first back-illuminated CMOS camera optimized for near-infrared response. The combination of 100% fill-factor and high Quantum Efficiency (QE) from proprietary coatings provides NIR sensitivity comparable to expensive, scientific grade CCD cameras. The camera boasts a 1280 x 1024 image resolution, 10.8  $\mu\text{m}$  pixels and a 30 frame per second, full frame digital readout via CameraLink®. The camera has a small form factor and low power consumption making it ideal for both end user and volume OEM applications.

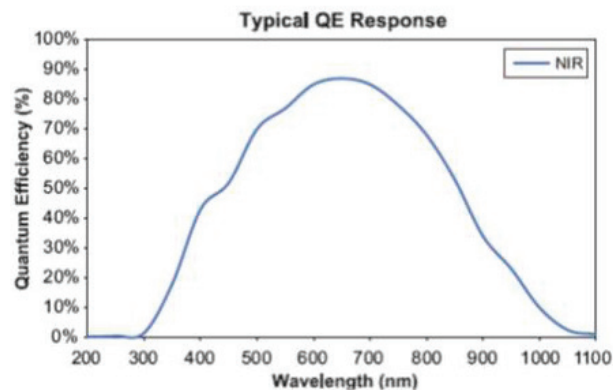
### APPLICATIONS

- Low-light NIR imaging
- Biometrics security
- NIR microscopy
- Medical imaging
- NIR hyperspectral imaging
- Product inspection and sorting



### FEATURES / BENEFITS

- Back-illuminated CMOS sensor: Provides sensitivity only found in scientific grade CCD cameras
- Selectable Region of Interest (ROI) window: Allows faster frame rates for imaging fast moving objects
- Rolling shutter mode: Reduces latency, read noise and dark current noise
- CameraLink® video output: Industry standard protocol



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## MICROVISTA® NIR SPECIFICATIONS

CMOS Image Sensor	Back-illuminated CMOS, anti-reflection coating to optimize near-infrared response
CMOS Imager Format	1.3 Mp, 1280 x 1024, 10.8 µm square pixels, 13.8 x 11.06 mm, 17.7 mm diagonal
Cooling	Passive air cooling (no fan required)
ROI Selection	Software selectable
Frame Rate vs. ROI:	
1280 x 1024	30 fps
512 x 512	130 fps
128 x 128	1230 fps
Digital Output Bit Depth	10 bit
Lens Mount	C-Mount, 1 inch optical format
Camera Mount	¼" - 20
Shutter Type	Rolling shutter and pseudo snapshot
Exposure Time Range:	
Rolling Shutter Mode	30 µs to 6 s
Pseudo Snapshot Mode	30 µs to 260 ms
Digital Data Port	CameraLink® Base
Dimensions	2" W x 2" H x 3" D (51 mm W x 51 mm H x 76 mm D)
Weight	225 grams (8 oz.)
Power Consumption	2 Watts @ 3.6 VDC
Operating Temperature	0°C to +50°C
Operating Humidity	5% - 95%, non-condensing
Computer OS Platforms	GUI requires Windows XP. Alternatively, OS agnostic RS-232 commands can control camera.

**NOTE:** These commodities are controlled by the U.S. Export Administration Regulations and may not be transferred in contravention thereof.

## ORDERING INFORMATION

MicroVista® NIR Camera	300320-51
MicroVista® Accessory Kit (includes accessories below)	447476
CameraLink® Cable, 3m, M-M	1-000711
AC Adapter, 90-264 VAC	1-000715
Cable, Ext, Power/Serial	446258
Cable, Transition, Power/Serial	446260



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