



MicroVista® UV Back-Illuminated CMOS Camera

MicroVista® UV is the world's first back-illuminated CMOS camera optimized for ultra-violet response. The combination of 100% fill-factor and high Quantum Efficiency (QE) from proprietary coatings provides UV sensitivity comparable to expensive, scientific grade CCD cameras. The camera boasts a 1280 x 1024 image resolution, 10.8 μm pixels, and a 30 frames 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.

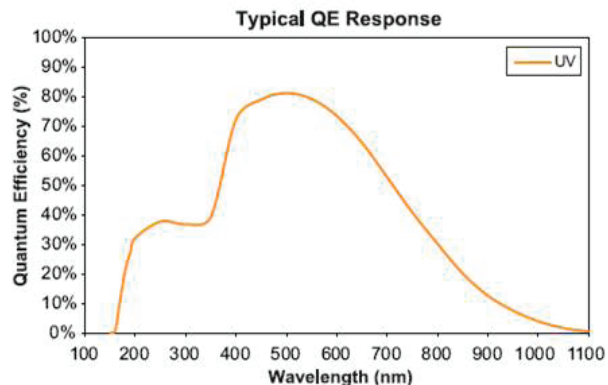
APPLICATIONS

- Semiconductor wafer inspection and mask alignment
- Electronics: solder inspection, PCB inspection, photoresist exposure control
- Automotive: leak detection, surface inspection
- Forensics: fingerprint analysis, counterfeit currency and documents
- UV microscopy, UV metrology, UV laser beam diagnostics
- Medical imaging



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® UV SPECIFICATIONS

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|--------------------------|---|
| CMOS Image Sensor | Back-illuminated CMOS, anti-reflection coating to optimize ultraviolet 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

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|---|----------|
| MicroVista® UV Camera | 446491 |
| 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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