



High Definition Digital Imaging

DE3000 Data Sheet

Colour CMOS QXGA (3.0 Mpixel) USB 2.0 Camera



Outline

XLI's DE series of cameras are designed to be used in a wide variety of Scientific Imaging, Endoscopy and Microscopy applications.

The DE3000 camera incorporates a 1/2" 2048 x 1536 (QXGA) image array and an on-chip 10-bit A/D converter capable of operating up to 7.5 frames per second (fps) with full resolution and 20 fps at XGA (1024 x 768) resolution.

This professional 3.0 mega pixel colour camera provides a cutting edge solution to meet the needs of Scientific Measurement, Bright Field Microscopy and Endoscopy applications. ic Measurement and Bright Field Microscopy.

The DE3000 camera incorporates a built-in image capture button that allows the user complete freedom to manipulate the instrument.

Uncompressed images in live streaming video and still image capture are provided across a USB 2.0 digital interface.

Advanced camera control is available through our user friendly analysis and capture software package - XLI-Cap.

Custom camera control can be achieved through our complete Software Development Kit, with simple code available to quickly integrate camera functions into OEM applications.

All XLI products are supported by an experienced team of software developers and application engineers.

Performance Features

- Optical black level calibration
- Video or snapshot operations
- Built-in image capture button
- Auto / Manual Exposure Control
- Auto / Manual White Balance Control
- Auto / Manual Gain Control
- Banding Filter Control
- Manual Flatfield Correction
- Variable Gamma Slope
- Variable frame rate
- On-chip R/G/B channel and luminance average counter
- Simplified cabling - video, power and full camera control over a single USB cable
- Integral IR filter
- Software compatible with Windows 2K and Windows XP operating systems
- Optional SDK available



Specifications

Image Sensor:	½" format
Array Size:	QXGA 2048 x 1536 XGA 1024 x 768
Electronic Exposure Range:	QXGA 1548:1 XGA 778:1
Image Transfer Rate:	QXGA 1-7.5 fps XGA 1-20 fps
Sensitivity:	1.0 V/Lux-sec
S/N Ratio:	46dB
Dynamic Range:	60dB
Scan Mode:	Progressive
Pixel Size:	3.2µm x 3.2µm
Dimensions (L x D):	57 x 39mm
Weight:	83g
Interface Connector:	Standard USB 2.0 cable
Lens Mount:	Standard C-Mount

