

Digital Eyepiece Cameras



DEC-18

USB CAM-3M
Colour CMOS QXGA
(3.1 Mpixel) Camera



Digital Eyepiece Cameras provide an easy and economical solution for capturing digital video from the microscope and recording it in your computer. The image is taken from the ocular port, so there is no need for the microscope to have a separate photo port. It can be used on any type of microscope. Since the camera connects directly to the computer's USB port, no video capture card is necessary. The diameter of the field of view in the primary image plane for the digital camera is up to 18 mm.

ScopePhoto software aids in analysis of the captured images.

- Image archival with data attachment (*.PTL format, other formats are also supported).
- Image capture through VFW and Twain interface.
- Image cut-&-paste from image to image, image to file.
- Image basic operations like other similar software are included in the Image menu.
- Image layer operation specially designed for themeasurement operation.

This high performance camera incorporates a half-inch 2048 x 1536 (QXGA) image array and an on-chip 10-bit A/D convertor capable of operating up to 7.5 frames per second (fps) with full resolution and 20 fps at XGA (1024 x 768) resolution. The camera uses USB 2.0 connectivity to transfer images to the user's computer. The simple plug- and-play software allows the resolution to be changed easily.

- Optical black level calibration
- Video or snapshot operations
- Auto Exposure
- Auto Gain Control
- Auto White Balance
- Variable Frame Rate
- On-chip R/G/B channel and luminance average counter
- Power on reset and power down mode
- Integral IR filter
- USB 2.0 "B" type connector
- Standard adjustable C-mount

DEC-18	Digital Eyepiece Camera
USBCAM-3M	3.1 Megapixel Digital Eyepiece Camera

DIGITAL CAMERA SPECIFICATIONS

	DEC-18	USBCAM-3M
IMAGE SENSOR	1/3" CMOS 350K pixels	1/2" CMOS, 3.1 M pixels
MAX RESOLUTION	(still) 640 x 480	(Still) 2048 x 1536, 1024 x 768
MAX RESOLUTION	(motion) 640 x 480, 15 fps; 320 x 240, 30 fps	(motion) 2048 x 1536 @ 7.5 fps; 1024 x 768 @ 20 fps
VIEW FIELD	Inscribed rectangle of □18 mm	Inscribed rectangle of □18 mm
USAGE	Ocular-tube, photo-tube	C-mount only
DYNAMIC RANGE		>52 dB
SENSITIVITY	2.7 v/lux-sec@green 2.1 v/lux-sec@red 1 2.0 v/lux-sec@blue	v/lux-sec
FILE FORMAT	BMP, TIFF, JPG, PICT, PTL	BMP, TIFF, JPG
EXPOSURE	Automatic	Automatic/Manual
SHUTTER CONTROL	Automatic	Automatic/Manual
INTERFACE	USB cable of length 2 m	USB cable of length 2 m
SYSTEM REQUIREMENT	Windows XP	Windows XP, Service Pack 2
SOFTWARE	Driver for USB 1.0, compatible with USB 2.0; ScopePhoto software	Driver for USB 2.0; XLICap software
WEIGHT	4.8 oz without eyepiece adapter	4.8 oz
CAMERA SIZE	Cylindrical, @ 50 mm	86 x 30 x 60 mm
CAMERA BODY	Anodized aluminum	Anodized aluminum
ACCESSORIES	30 mm, 30.5 mm adapter	C-mount required
WHITE BALANCE	Tungsten, Fluorescent	Tungsten, Fluorescent

XLICap software has many unique features for still and live image capture

- Simple layout with toolbar for common functions
- Pan and Zoom with selectable magnification
- Selectable image Resolutions
- Mirror / Flip / Rotate Image options
- Save images in a variety of formats
- Record live videos
- Email a screen shot instantly
- On-screen annotation and time/date stamping
- Freeze the image at any time
- Copy to clipboard and paste into other applications
- Automatic one-touch white balance
- Colour or black and white mode
- Save and restore Custom Preference Profiles