

## MD50 - 5.0MP USB2.0 CMOS Camera



MD50 is a entry level microscope camera in USB2.0. With optimized white balance, more accuracy color reproduction and 32MB cache to store data, the camera is superior than traditional USB2.0 CMOS camera on speed and stability. It occupies less PC memory to achieve smooth working on low configuration PC, which is favorable to routine microscope applications. The camera work well with Directshow and TWAIN program, compatible SDK is affordable for secondary development.

### Features

5.0 megapixels  
 32Mb cache to store image data.  
 1/2.5 inch CMOS sensor with 1X~8X effective gain.  
 Exposure time long to 3000ms.  
 Support DirectShow / TWAIN and secondary development.  
 Can do measurement, count, multichannel synthesis etc.  
 Camera alluminum alloy shell with frosted treatment.

### Applications

Biological bright field slides  
 Education and teaching  
 Industry quality inspection  
 Material checking  
 Clinical examination  
 Dental

Item	MD50
Resolution	5.0MP
Sensor	1/2.5 inch
Pixel size	2.2 $\mu$ m $\times$ 2.2 $\mu$ m
Resolution and frame rate	2592 $\times$ 1944: 7 FPS
	2048 $\times$ 1536 (ROI) : 10.4 FPS
	1920 $\times$ 1080 (ROI) : 15.4FPS
	1280 $\times$ 960 (SUM) : 17.2 FPS
	1280 $\times$ 960 (BIN) : 17.2 FPS
	640 $\times$ 480 (SUM) : 26.7 FPS
	640 $\times$ 480 (BIN) : 26.7 FPS
	Any size of ROI
Exposure time	59us ~3s
Effective gain	1X~8X
Spectral range	380nm ~650nm
Exposure mode	Electronic rolling shutter
A / D convert	8Bit
Exposure function	Manual/ Auto/ Area
White balance	Auto/ One push/ Area
Image format	TIF,BMP,JPG,RAW
Image cache	32MB
Software data	DirectShow / TWAIN
Operation system	Windows XP;Windows 7/8/10 32/64Bit
Data port	USB2.0 B type, 480Mb/s
Power supply	USB 5V power on, work1W, standby0.45W
Working distance	Working temperature: 0~50 $^{\circ}$ C, humidity: 10%~90%RH (no condensation)