

High Resolution Digital Color Camera

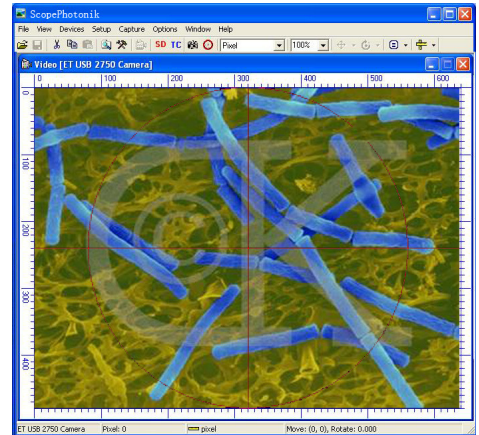
P/N: PDC1300 (USB2.0)

PHOTONIK hv

Our Digital Camera **PDC1300 (USB2.0)** is professionally designed for microscope with 1.3 mega pixels and USB2.0 interface, which can fit with various optical microscopes in the market, such as biological microscope, metallurgical microscope and stereomicroscope, etc.

Our Software Program **ScopePhotonik**, together with the digital camera, provides friendly interfaces and powerful functions for image processing.

Our PDC1300 (USB2.0) Driver can support twain interface.



PDC1300C
Std C-Mount Version



PDC1300M
Microscope Version



Applicable to
Any Ocular-tube or Photo-tube

Specifications PDC1300 (1.3M pixels, USB2.0)

Image Sensor:	<ul style="list-style-type: none"> - Array Format (5:4): Active: 1280H X 1024V (1.3-million pixels formatted) Total (incl. dark pixels): 1312H X 1048V (1.38M pixels) - Pixel Size and Type: 5.2 μm x 5.2 μm active pixel photodiode-type - Color Filter Array: R, G and B primary color filters - Optical Format: 1/2 inch, Sensor active area size 6.82mm X 5.45mm - Data Rate: 48 MHz at 48 MHz master clock - Responsibility (green pixels): 1.8 V / lux-sec with source illumination @ 550nm - SNR max; Dynamic Range: >45dB; 62dB - Shutter: Electronic rolling snap (ERS) - Window Size: SXGA; Programmable to any smaller format (VGA, QVGA, CIF, QCIF, etc.) - Programmable Controls: Gain, frame rate, frame size
Max Resolution:	1280 X 1024 (1.3M pixels) for still picture 1280 X 1024 (1.3M pixels) (default) for live image
Preview Speed:	15 ~ 30 frames/sec View field Inscribed rectangle of dia.18 mm
Mounting Port:	Microscope ocular-tube or photo-tube
File Format:	BMP, TIFF, JPG, PICT, PTL etc.
Exposure:	Automatic
Shutter Control:	Automatic
Interface:	USB, hot plug and thrust, a USB cable of length 1.5m
System:	Windows 2000 / Windows XP, Computer with USB2.0 port
Software Disc:	Driver Software; ScopePhotonik ; Photoshop plug-in
Accessories:	Two adaptors (dia.30mm, dia.30.5mm, one each)
Camera Size:	Blackened metal body of cylinder shape dia.50 mm

In principle, **PDC1300 (USB2.0)** is a novel optical system, the design of which is fully thin-film coated, based on MTF (modulation Transfer Function) analysis, to improve image flatness and contrast. Even the periphery of the field will give good view by **PDC1300 (USB2.0)**.

It works effectively if combined with plan-achromatic objective. Especially, this design suits to many microscope features, such as the field of view of eyepiece WF10X-18mm and the objective par-focalization.

PDC1300 (USB2.0) is to be inserted directly into the ocular-tube or the photo-tube interface.

With suitable adaptors, it is also workable on a stereomicroscope, or C-mount in-line microscope assembly tube...

PDC1300 (USB2.0) makes the image with excellent true color.

If the microscope adapted with **PDC1300 (USB2.0)** is earthed definitely, the metal body of the camera ensures wonderful anti-interference.

Contact Information:

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