



## Overview:

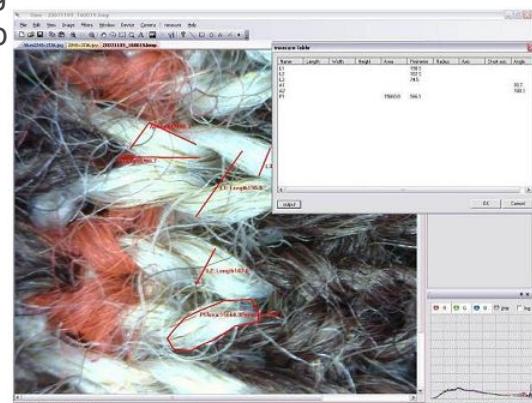
The BOXUSB range of cameras from XtendLan provide high levels of functionality at excellent prices and have been specially designed for microscopy use. The BOXUSB cameras include 1.3MP, 3.0MP, 5.0MP and 9.0MP resolutions and a very comprehensive software package making it one of the most popular professional microscopy cameras in the world.

Designed specifically for high performance scientific imaging this excellent camera represents outstanding value for money, costing less than one-third of other digital microscope cameras in this class.

The software program is supplied free with the camera, which provides a live image from the microscope or lens, making focussing and illumination set-up simple. A single click captures the image, which can then be saved to disk in a wide range of file formats. The live image can be interactively adjusted to provide the optimum viewing and capture conditions, ideal for teaching and group discussion environments.

The software contains a huge suite of sophisticated image processing, annotation and measurement functions normally associated with programs sold at high prices.

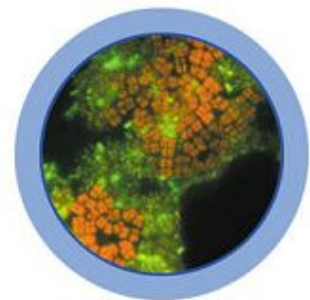
This camera is suitable for brightfield, phase and materials imaging.





### Highlights:

- USB 2.0 high speed connection
- Available in 1.3MP, 3MP, 5MP, 9.0MP Resolution
- Standard c-mount and cs-mount connector for direct adaptation
- Power directly via USB
- Large 1 / 2 "Customs CMOS image sensor recording
- compact design
- High refresh
- Built-in IR filter > 635nm
- For Windows 2000 / XP / Vista
- DirectX 9.0 or higher
- Including application software
- Including the driver (WDM) for Microsoft
- DirectShow interface, thereby EXP
- With all the standard graphics tools, which this interface support

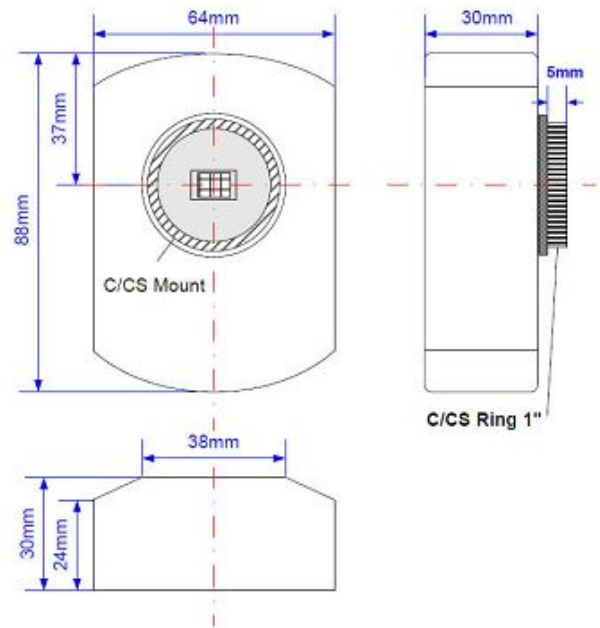


## Specifications:

	BOXUSB13CM	BOXUSB30CM	BOXUSB50CM	BOXUSB90CM
Sensor manufacturer	Micron	Micron	Micron	Micron
Sensor type	MT9M131	MT9T001	MT9P001	MT9N001
Sensor format	1/3"	1/2"	1/2.5"	1/2.3"
Pixel size	3.6µm X 3.6µm	3.2µm X 3.2µm	2.2µm X 2.2µm	1.75µm X 1.75µm
Resolution	1280H X 1024V	2048H X 1536V	2592H x 1944V	3488H x 2616V
Filter	RGB Bayer Pattern	RGB Bayer Pattern	RGB Bayer Pattern	RGB Bayer Pattern
Lens mount	C and CS-mount, include adapter ring	C and CS-mount, include adapter ring	C and CS-mount, include adapter ring	C and CS-mount, include adapter ring
Max Frame rate	15fps(1280*1024) 30fps(640*480)	11fps(2048*1536) 30fps(640*480)	8fps(2592*1944) 30fps(640*480)	2fps(3488*2616) 15fps(1280*1024) 30fps(640*480)
Output RGB	8 bit	8 bit	8 bit	8 bit
Exposure control	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual
Exposure time	1ms-0.3S	1ms-0.3S	1ms-0.3S	1ms-0.3S
White balance	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual
Scan mode	Progressive	Progressive	Progressive	Progressive
Shutter	Electronic rolling shutter	Electronic rolling shutter	Electronic rolling shutter	Electronic rolling shutter
Sensitivity	1.0V/Lux-sec(550nm)	1.0V/Lux-sec(550nm)	0.53V/Luxsec(550nm)	0.44V/Luxsec(550nm)
S/N Ratio	44dB	43dB	40.5dB	40.5dB
Dynamic Range	>71dB	>61dB	>60dB	>63dB
Control	Image size, bright,gain, expousre time, RGB	Image size, bright,gain, expousre time, RGB	Image size, bright,gain, expousre time, RGB	Image size, bright,gain, expousre time, RGB
interface	USB2.0/480Mb/s	USB2.0/480Mb/s	USB2.0/480Mb/s	USB2.0/480Mb/s
USB cable	2.5M	2.5M	2.5M	2.5M
Power supply	USB2.0	USB2.0	USB2.0	USB2.0
Dimension	65mm*86mm*37mm(HXBXT)	65mm*86mm*37mm(HXBXT)	65mm*86mm*37mm(HXBXT)	65mm*86mm*37mm(HXBXT)
Weight	220g	220g	220g	220g
Operating Temperature	0-60°C	0-60°C	0-60°C	0-60°V
Humidity	45%-85%	45%-85%	45%-85%	45%-85%
Storage temperature	-20-70°C	-20-70°C	-20-70°C	-20-70°C

### Camera Shape:

The best-looking microscope Camera on the market. Made of Aluminium metal housing and the RoHS compliant bright silver paint makes this camera look real. The tripod holder can be optional added by double side and camera top, very convenient for various mounting application.



### Accessories:

The CT-0.5 and CT-1.0 adapter are supplied for attaching it to the eyepiece tube of most microscopes (fits eyepiece tubes with ID of 23.2mm, 30mm, 30.5mm).

For microscope users with a trinocular headed microscope, all you need is the microscope manufacturer's c-mount adapter for a 0.5in chip camera to attach to the photoport.



Two modes:

CT-0.5: for 2X field of view, excellent for 1/2" sensor chip

## Calibration Slide:

Essential for making calibrated measurements with the software.

Stage Micrometers Slide (Stage Graticules)

0.01 mm per division

Two modes:

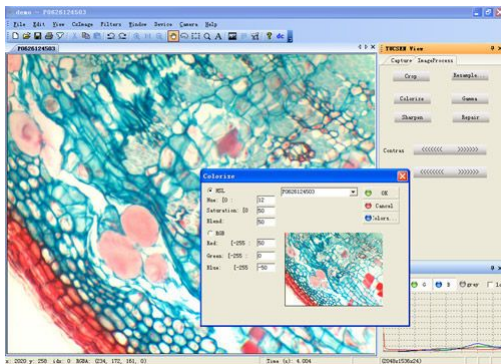
CT-H

CT-L



## XtendLan software:

The software provides user-friendly platform to control versatile XtendLan cameras, view and edit images, measure images, it is also free for all XtendLan camera users.



Support Full Serial XtendLan Camera

BOXUSB13CM  
BOXUSB30CM  
BOXUSB50CM  
BOXUSB90CM  
BOXUSB14ICEB/C/H  
BOXUSB33ICEC

Etc..

\*Automatic initial

Detect camera mode automatically



## Sample Images:

Fig1: Gossypium (cotton plant) stem cross-section

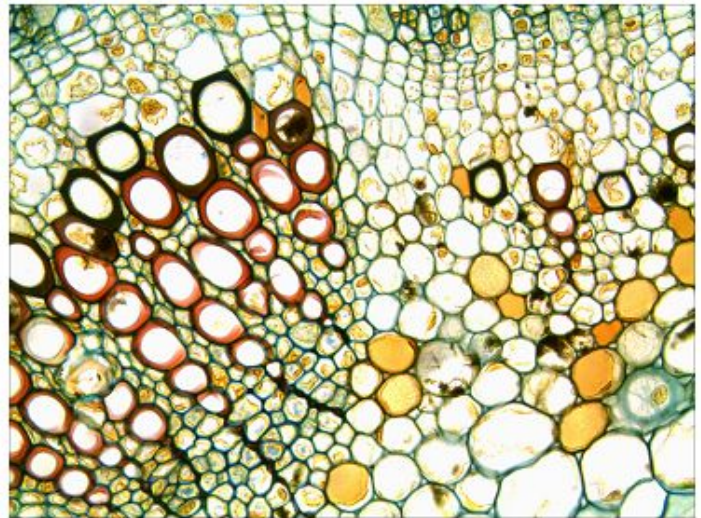


Fig2: Diatom preparation for dark lighting

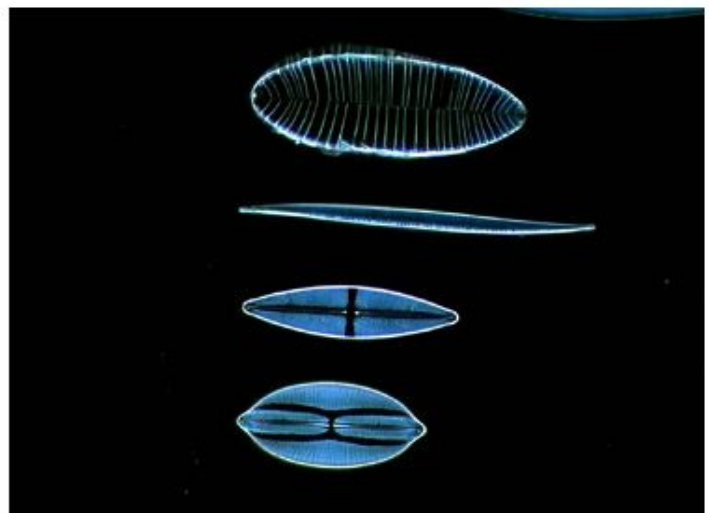


Fig3: Detail of a human kidney

