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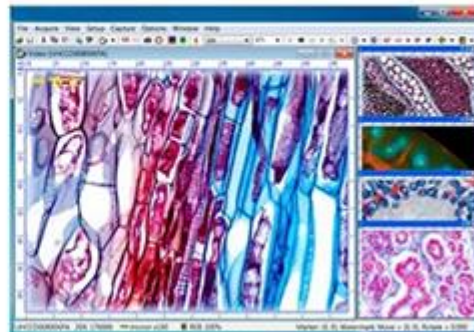
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CMOS CAMERA



Specification



 Shop No.1, Basement floor, Best Apartments, Dr. Arunachalam Road, 5th Stage BEML Layout, Rajarajeshwari Nagar, Bengaluru - 560 098

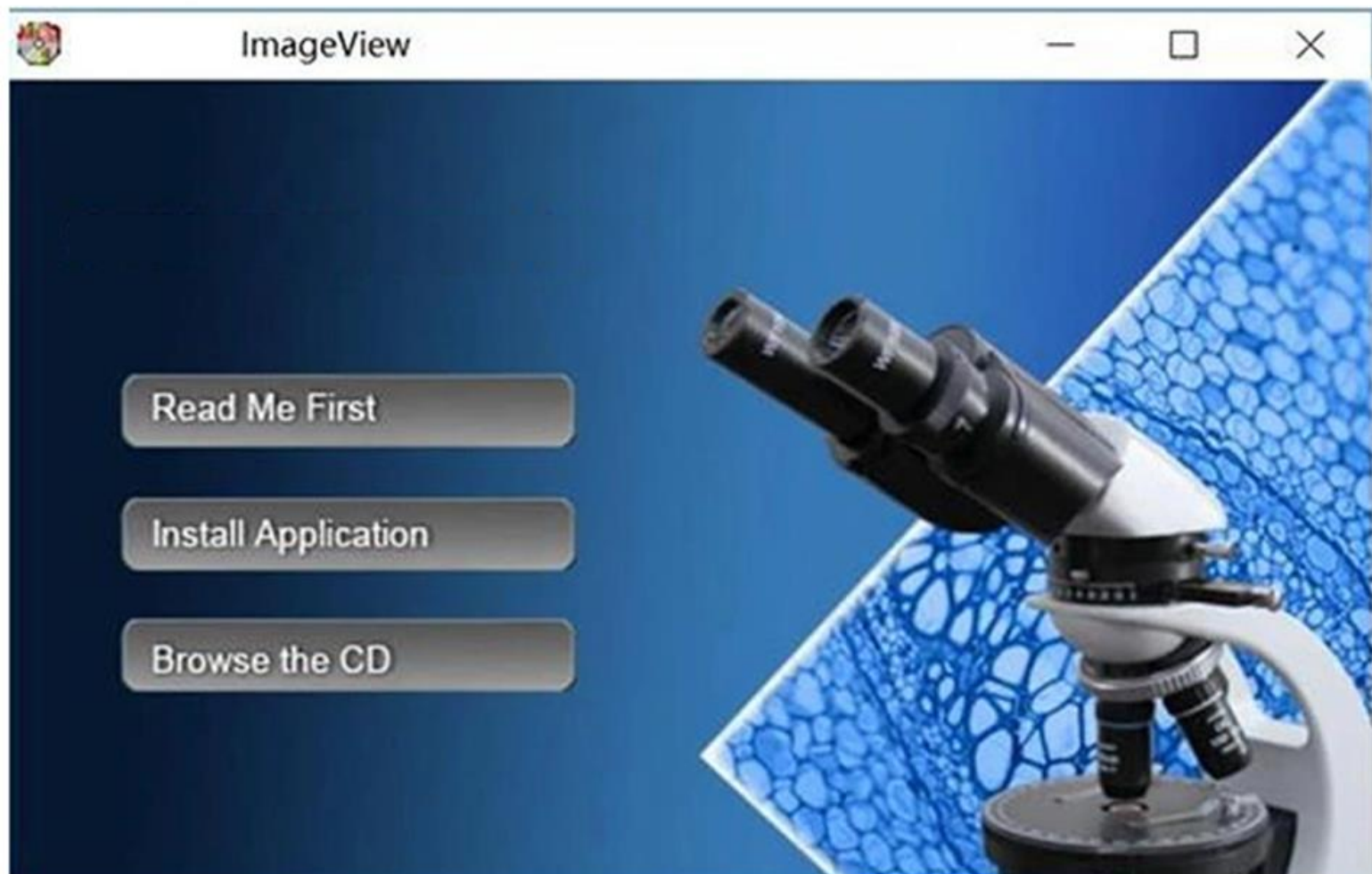
USB2.0 CMOS Digital Camera, 1.3M~14M

is an ultra-high performance CMOS camera and it adopts ultra-high performance CMOS sensor as the image-picking device. USB2.0 is used as the data transfer interface.

camera hardware resolutions range from 0.35M to 14M and comes with the Integrated zinc aluminum alloy compact housing.

comes with advanced video & image processing software Image View; providing Windows/Linux/macOS/Android multiple platform SDK(Native C/C++, C#/VB.NET, Python, Java, DirectShow, Twain, etc);

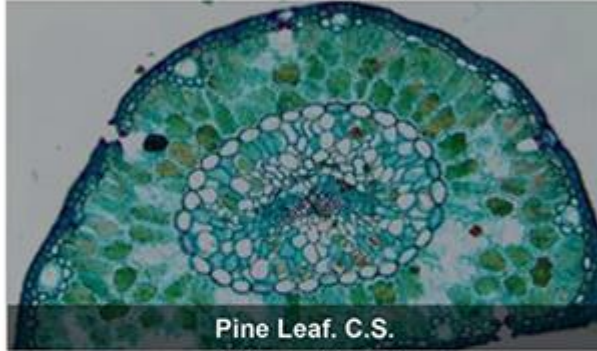
can be widely used in brightfield light environment and microscope image capture and analysis with moderate frame rate.



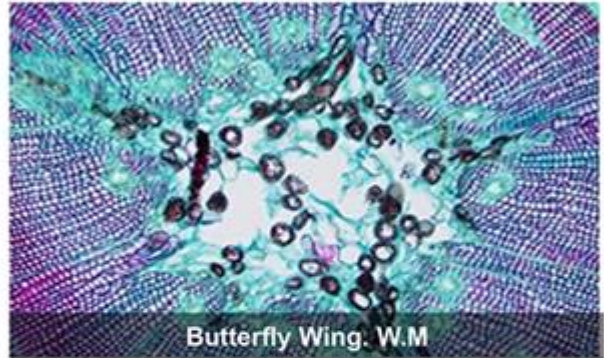
Features & Sample Pictures



- USB2.0 Digital Camera With Aptina CMOS Sensors Resloution 1.3M~14M
- Integrated Zinc Aluminum Alloy Housing, With Ultra-Fine TM Color Engine
- High-speed USB2.0 Interface And High Frame Rate Video Display Keep Screen Smooth
- Auto White Balance, Auto-exposure, Brightness, Contrast, Chroma & Saturation Can Be Adjusted
- With Advanced Video & Image Processing Software Image View, Support SDK For Win/Linux/Mac/Android



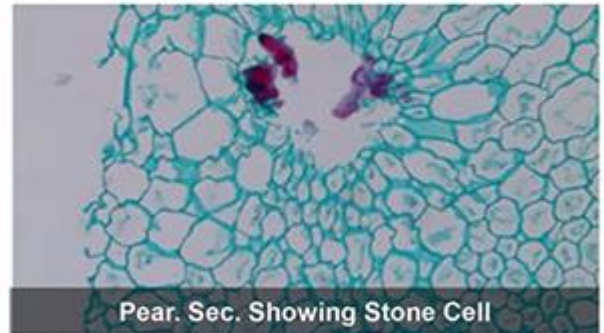
Pine Leaf. C.S.



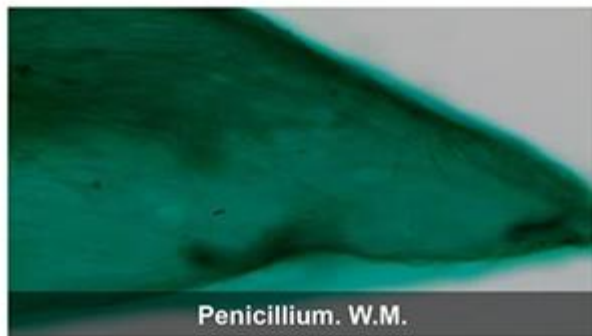
Butterfly Wing. W.M



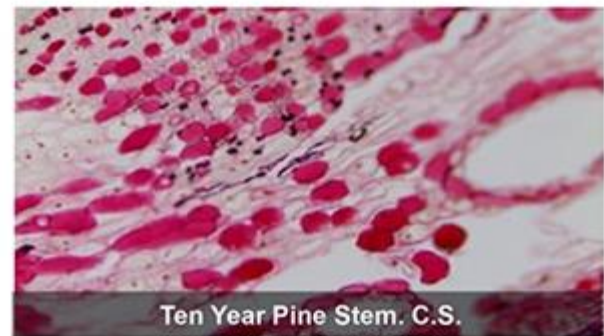
Onion Leaf Epidermis. W.M



Pear. Sec. Showing Stone Cell



Penicillium. W.M.



Ten Year Pine Stem. C.S.

Technical Specification

Cata. No.	Sensor & Size(mm)	Pixel(μm)	G Sensitivity Dark Signal	FPS/Resolution	Binning	Exposure
14MPA	14M/MT9F002(C)	1.4x1.4	0.724v/lux-sec	1.8@4096x3288	1x1	0.4ms~2000ms
	1/2.3"(5.73x4.60)		65.3dB	10@2048x1644	2x2	
			35.5dB	27@1024x822	4x4	
12MPA	12M/IMX577(C)	1.55x1.55	250mv with 1/30s	3@3840x3040	1x1	0.4ms~2000ms
	1/2.1"(5.95x4.71)		0.25mv with 1/30s	11@1920x1516	2x2	

				47@960x758	4x4	
10MPA	10M/IMX577(C)		250mv with 1/30s	3.3@3584x2748	1x1	0.4ms~2000ms
	1/2.3" (5.56x4.26)	1.55x1.55	0.25mv with 1/30s	12@1792x1374	2x2	
				53@896x684	4x4	
9MPB	9M/Special(C)		250mv with 1/30s	3.5@3488x2616	1x1	0.4ms~2000ms
	1/2.4"(5.41x4.05)	1.55x1.55	0.25mv with 1/30s	13@1744x1308	2x2	
				55@872x654	4x4	
8MPB	8M/Special(C)		250mv with 1/30s	4@3264x2448	1x1	0.4ms~2000ms
	1/2.5"(5.06x3.79)	1.55x1.55	0.25mv with 1/30s	15@1600x1200	2x2	
				62@800x600	4x4	
5.1MPA Hot	5.1M/AR0521(C)		18.8ke-/lux	7.0@2592x1944	1x1	0.2ms~2000ms
	1/2.5" (5.70x4.28)	2.2x2.2	73dB	27.7@1296x972	2x2	
			40dB	100.5@648x486	4x4	
3.1MPB	3.1M/IMX123(C)		600mv with 1/30s	11.5@2048x1536	1x1	0.2ms~2000ms
	1/2.8" (5.12x3.84)	2.5x2.5	0.15mv with 1/30s	29.5@1024x768	2x2	
1.3MPA	1.23M/SC1235(C)		4.5V/lux-sec	15@1280x960	1x1	0.14ms~2000ms
	1/3" (4.80x3.60)	3.75x3.75	74dB	15@1280x720	1x1	
			38dB			

Remark:C - Color, M-Monocolor, GS-GS Shutter

OTHER HARDWARE CONFIGURATION

Spectral Range	380-650nm (with IR-filter), for Monochromatic Camera, AR Is Used
White Balance	ROI White Balance/ Manual Temp-Tint Adjustment
Color Rendering Tech.	Ultra Fine Color Engine
Capture/Control SDK	Windows/Linux/macOS/Android Multiple Platform SDK(Native C/C++, C#/VB.NET, Python, Java, DirectShow, Twain, etc)
Recording System	Still Picture and Movie
Cooling System*	Two-stage TE-cooling System -42 °C below Camera Body Temperature

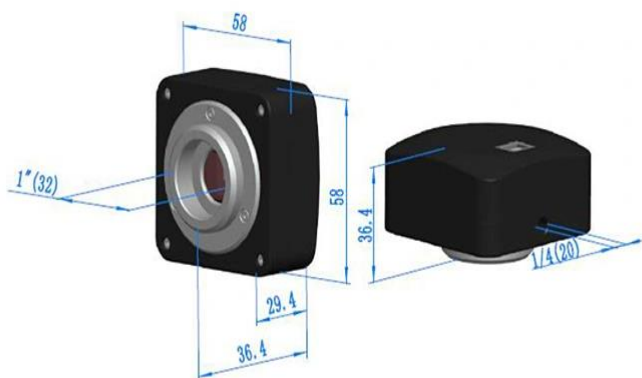
OPERATING ENVIRONMENT

Operating Temperature	-10 °C~ 50 °C
Storage Temperature	-20 °C~ 60 °C
Operating Humidity	30~80%RH
Storage Humidity	10~60%RH
Power Supply	DC 5V over PC USB Port

SOFTWARE ENVIRONMENT

Operating System	Support Microsoft Windows XP / Vista / 7 / 8 /10(32 & 64 bit)
	OS X (Mac OS X), Linux
	CPU: Equal to Intel Core2 2.8GHz or Higher
	Memory: 2GB or More
PC Requirements	USB port: USB2.0 High-speed Port
	Display: 17"or Larger
	CD-ROM

USB2.0 Camera body, made from tough, CNC alloy, ensures a heavy duty, workhorse solution. The camera is designed with a high quality IR-CUT to protect the camera sensor. No moving parts included. This design ensures a rugged, robust solution with an increased life span when compared to other industrial camera solutions.

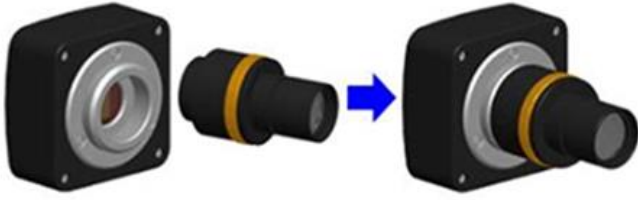


2208 Packing List



Packing List of Camera			
Standard Outfit			
A	Carton L:52cm W:32cm H:33cm (20pcs, 12~17Kg/ carton), not shown in the photo		
B	Gift box L:15cm W:15cm H:10cm (0.5~55Kg/ box)		
C	Digital camera		
D	High-speed USB2.0 A male to B male gold-plated connectors cable /2.0m		
E	CD (Driver & utilities software, Ø12cm)		
Optional Accessory			
F	Focus Adjustable Eyepiece Adapter	For Microscope	0.37x, C-Mount to Dia.23.2mm
			0.50x, C-Mount to Dia.23.2mm
			0.75x, C-Mount to Dia.23.2mm
		For Telescope	0.37x, C-Mount to Dia.31.75mm
			0.50x, C-Mount to Dia.31.75mm
			0.75x, C-Mount to Dia.31.75mm
G	Focus Fixed Eyepiece Adapter	For Microscope	0.37x, C-Mount to Dia.23.2mm
			0.50x, C-Mount to Dia.23.2mm
			0.75x, C-Mount to Dia.23.2mm
		For Telescope	0.37x, C-Mount to Dia.31.75mm
			0.50x, C-Mount to Dia.31.75mm
			0.75x, C-Mount to Dia.31.75mm
H	Adaptor Rings Dia.23.2mm to 30.0mm For 30.0mm Microscope Eyepiece Tube		
I	Adaptor Rings Dia.23.2mm to 30.5mm For 30.5mm Microscope Eyepiece Tube		
J	Adaptor Rings Dia.23.2mm to 31.75mm For 31.75mm Telescope Eyepiece Tube		
K	Calibration Stage Micrometer	X=0.01mm/100Div.	
		X,Y=0.01mm/100Div	
		X=0.01mm/100Div., 0.10mm/100Div	

Camera Connect To Microscope



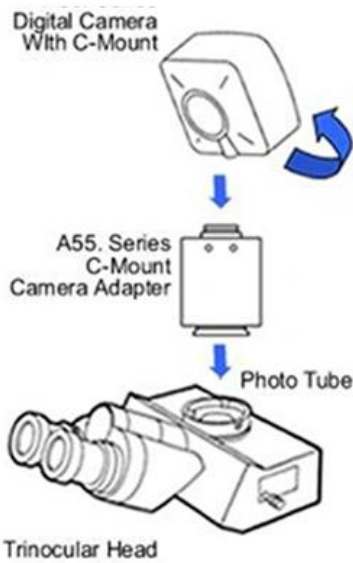
C-Mount to 23.2mm Adapter
For Microscope



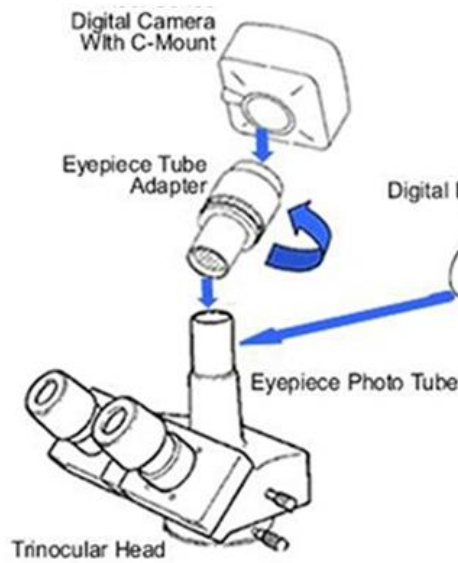
C-Mount to 31.75mm Adapter
For Telescope

How Camera Connect To Microscope

1. To Trinocular Microscope On Straight Photo Tube



2. To Trinocular Microscope On Eyepiece Photo Tube



3. To Binocular Microscope On Eyepiece Tube

