

MDE3 Series USB2.0 Eyepiece Camera (with Reduction Lens)



Introduction

MDE3 is an extension of 's MDE2 series camera with fixed reduction lens to increase the field of view from the microscope eyepiece tube. The MDE3 is still an economic version with simple and compact structure CMOS eyepiece camera. USB2.0 is used as the data transfer interface.

The MDE3 series cameras come with high-speed USB2.0 interface and high frame rate video display keep the screen smooth without interruption; Also the MDE3 come with advanced video & image processing application ImageView.

The MDE3 can be widely used to transfer the mono or binocular student microscopes to digital microscope.

With 23.2 to 30mm or 23.2 to 30.75 convert ring, the MDE3 camera can also change the stereo microscope to digital stereo microscope.

Features

The basic characteristic of MDE3 cameras are as follows:

1. Microscope eyepiece camera with 23.2 diameter and compact size;
2. An extension of 's MDE2 series cameras with fixed reduction lens to ensure the full field of view of the microscope from the eyepiece can be imaged to the CMOS sensor;
3. High-quality camera with Aptina CMOS sensor;
4. Auto white balance and auto-exposure; Brightness, contrast, chroma, and saturation can be adjusted;
5. High-speed USB2.0 interface and high frame rate video display keep the screen smooth without interruption;
6. With advanced video & image processing application ImageView;
7. Providing Windows/Linux/Mac OS multiple platforms SDK;
8. Native C/C++, C#/VB.NET, DirectShow, Twain Control API.

Specification

Order Code	Sensor & Size(mm)	Pixel(μm)	G Responsivity Dynamic range SNRmax	FPS/Resolution	Binning	Exposure
MDE3-500C	5.0M/Aptina(C) 1/2.5" (5.70x4.28)	2.2x2.2	NA	2@2592x1944 3@2048x1536 5@1600x1200 7.5@1280x1024	N/A	Auto
MDE3-300C	3.0M/Aptina(C) 1/2.7" (4.51x3.38)	2.2x2.2	NA	3@2048x1536 5@1600x1200 7.5@1280x1024	N/A	Auto
MDE3-200C	2.0M/Aptina(C) 1/3.2" (4.48x3.36)	2.8x2.8	NA	5@1600x1200 7.5@1280x1024 7.5@1280x960 20@800x600	N/A	Auto
MDE3-130C	1.3M/Aptina(C) 1/3" (4.60x3.70)	3.6x3.6	NA	7.5@1280x1024 12.5@1024x768 12.5@800x600	N/A	Auto
MDE3-35C	0.35M/Aptina(C) 1/4" (3.58x2.6)	5.6x5.6	NA	30@640x480	N/A	Auto
MDE3-510BC	5.1M/IMX335(C) 1/2.8" (5.18x3.89)	2.0x2.0	505mV 70dB 43dB	26@2592x1944 26@1280x960 26@640x480	1x1 1x1 1x1	0.1-2000 ms

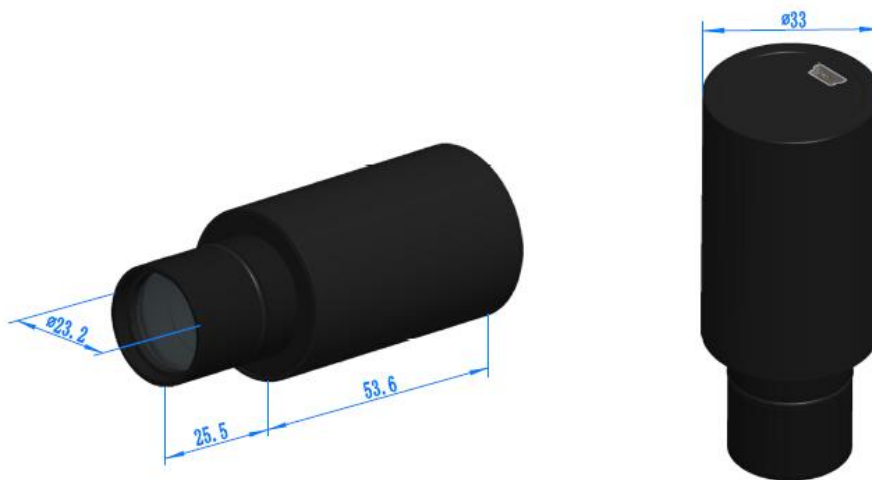
C: Color; M: Monochrome;

Other Specification for MDE3 Camera	
Spectral Range	380-650nm (with IR-cut Filter)
White Balance	Auto White Balance
Color Technique	N/A
Capture/Control API	Native C/C++, C#/VB.NET, DirectShow, Twain and Labview
Recording System	Still Picture and Movie
Cooling System*	Natural
Operating Environment	
Operating Temperature (in Centidegree)	-10~ 50
Storage Temperature(in Centidegree)	-20~ 60
Operating Humidity	30~80%RH
Storage Humidity	10~60%RH
Power Supply	DC 5V over PC USB Port
Software Environment	
Operating System	Microsoft® Windows® XP / Vista / 7 / 8 / 10 (32 & 64 bit) OSx(Mac OS X) Linux

PC Requirements	CPU: Equal to Intel Core2 2.8GHz or Higher
	Memory:2GB or More
	USB Port:USB2.0 High-speed Port
	Display:17" or Larger
	CD-ROM

Dimension of MDE3

The MDE3 body, made from aluminum alloy blackening, ocular housing: Dia.33 X 79.1mm ensures a heavy duty, workhorse solution. The camera is designed with a high quality IR-CUT filter to filter the infrared light and protect the camera sensor. No moving parts included. These measures ensure a rugged, robust solution with an increased lifespan when compared to other industrial camera solutions.



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Packing Information for MDE3



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Standard Camera Packing List	
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 (0.25~0.26Kg/ box)
C	SPCMOS series eyepiece camera
D	High-Speed USB2.0 A male to mini B 5-pin male gold-plated connectors cable /1.5m
E	CD (Driver & utilities software, Ø8cm)
Optional Accessory	
F	108015(Dia.23.2mm to 30.0mm Ring)/Adapter rings for 30mm eyepiece tube
G	108016(Dia.23.2mm to 30.5mm Ring)/ Adapter rings for 30.5mm eyepiece tube
H	108017(Dia.23.2mm to 31.75mm Ring)/ Adapter rings for 31.75mm eyepiece tube
I	Calibration kit
	106011/TS-M1(X=0.01mm/100Div.); 106012/TS-M2(X,Y=0.01mm/100Div.); 106013/TS-M7(X=0.01mm/100Div., 0.10mm/100Div.)