

STALWART

CMOS Eyepiece Camera (with Reduction Lens) SDE3-Series



SDE3-Series

Introduction

SDE3 is an extension of 's SDE2 series camera with fixed reduction lens to increase the field of view from the microscope eyepiece tube. The SDE3 is still an economic version with simple and compact structure CMOS eyepiece camera. USB2.0 is used as the data transfer interface.

The SDE3 series cameras come with high-speed USB2.0 interface and high frame rate video display keep the screen smooth without interruption; Also the SDE3 come with advanced video & image processing application ImageView.

The SDE3 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 SDE3 camera can also change the stereo microscope to digital stereo microscope.

Features

- Microscope eyepiece camera with 23.2 diameter and compact size;
- An extension of 's SDE2 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;
- High-quality camera with Aptina CMOS sensor;
- Auto white balance and auto-exposure; Brightness, contrast, chroma, and saturation can be adjusted;
- High-speed USB2.0 interface and high frame rate video display keep the screen smooth without interruption;
- With advanced video & image processing application ImageView;
- Providing Windows/Linux/Mac OS multiple platforms SDK;
- Native C/C++, C#/VB.NET, DirectShow, Twain Control API.

Specification

Item	SDE3-500C	SDE3-300C	SDE3-200C	SDE3-130C
Sensor & Size(mm)	5.0M/Aptina(C) 1/2.5" (5.70x4.28)	3.0M/Aptina(C) 1/2.7" (4.51x3.38)	2.0M/Aptina(C) 1/3.2" (4.48x3.36)	1.3M/Aptina(C) 1/3" (4.60x3.70)
Pixel(μ m)	2.2x2.2	2.2x2.2	2.8x2.8	3.6x3.6
G Responsivity	NA	NA	NA	NA
Dynamic range				
SNRmax				
FPS/Resolution	2@2592x1944 3@2048x1536 5@1600x1200 7.5@1280x1024	3@2048x1536 5@1600x1200 7.5@1280x1024	5@1600x1200 7.5@1280x1024 7.5@1280x960 20@800x600	7.5@1280x1024 12.5@1024x768 12.5@800x600
Binning	N/A	N/A	N/A	N/A
Exposure	Auto	Auto	Auto	Auto

Specification

Item		SDE3-35C
Sensor & Size(mm)	0.35M/Aptina(C) 1/4" (3.58x2.6)	
Pixel(μm)	5.6x5.6	
G Responsivity	NA	
Dynamic range		
SNRmax		
FPS/Resolution	30@640x480	
Binning	N/A	
Exposure	Auto	

Other Specification for SDE3 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 Centigrade)	-10~ 50
Storage Temperature(in Centigrade)	-20~ 60
Operating Humidity	30~80%RH
Storage Humidity	10~60%RH
Power Supply	DC 5V over PC USB Port

Software

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

Dimension

The SDE3 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.