STALWART

C-mount CMOS Color Digital Camera STC3D Series



STC3D-Series

Introduction

STC3D series cameras are ultra-high performance USB3.0 CMOS cameras and they adopt ultra-high performance CMOS sensor as the image-picking device and USB3.0 is used as the data transfer interface. STC3D series cameras hardware resolutions range from 5.0M to 10M and come with the CNC aluminum alloy compact housing.

STC3D series cameras come with advanced video & image processing application ImageView; Providing Windows/Linux/ OSX multiple platforms SDK; Native C/C++, C#/VB.NET, DirectShow, Twain Control API; The STC3D series cameras can be widely used in bright field light environment and microscope image capture and analysis with higher frame rate

Features

- Standard C-Mount camera with Aptina CMOS sensor;
- · CNC aluminum alloy housing;
- USB3.0 5 Gbps interface ensuring high frame rate;
- 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	STC3D-500C	STC3D-1000C
Sensor & Size(mm)	5.1M/MT9P006© 1/2.5" (5.70x4.28)	10M/MT9J003© 1/2.3" (5.98x4.58)
Pixel size(µm)	2.2x2.2	1.67x1.67
G Responsivity Dynamic range	1.76v/lux-sec 67.74dB 38.5dB	0.31v/lux-sec 65.2dB 34dB
SNRmax		
FPS/Resolution	14.0@2592x1944 29.4@1280x960	7.2@3664x2748 23.8@1832x1374
	103.1@640x480	77.4@912x686
Binning	1x1 2x2 4x4	1x1 2x2 4x4
Exposure	0.1ms~2000ms	0.1ms~2000ms

Other Specification for STC3D Camera		
Spectral Range	380-650nm (with IR-cut Filter)	
White Balance	ROI White Balance/ Manual Temp Tint Adjustment/NA for	
	Monochromatic Sensor	
Color Technique	Ultra-FineTM Color Engine/NA for Monochromatic Sensor	
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	
	Memory:2GB or More	
PC Requirements	USB Port: USB3.0 High-speed Port	
	Display:17" or Larger	
	CD-ROM	

Dimension

The STC3D body, made from tough, aluminum 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 lifespan when compared to other industrial camera solutions.