

STALWART

**C-mount CMOS Color Digital Camera
STC5C Series**



STC5C-Series

Introduction

STC5C Series USB3.0 digital cameras adopt the latest USB3.0 technology, the speed is much faster than USB2.0 digital cameras. They are widely used in academic and medical fields for precision and high resolution microscope image capturing and processing.

Features

- The cameras have high resolution sensor and excellent color reproduction ability;
- With USB3.0 interface, the cameras have high speed data transmission;
- User-friendly image processing software with measurement function;
- Compatible with Windows 2000/ XP/ Vista/Win7/Win 8/Win 10, 32bit&64bit, Mac operation system;
- 0.45X adapters and micrometers are optional.

Specification

Item	STC5C-300C	STC5C-500C	STC5C-1600C
Sensor	CMOS	Micron MT9P031	Panasonic Mn34120
Color/Monochrome	Color	Color	Color
Sensor Size	1/2.7 inch	1/2.5 inch	1/2.33 inch
Image Processor	Built-in ISP image processor	Built-in ISP image processor	Built-in image processor
Image Transmission Control	—	—	High-speed FPGA+high speed DDR
Color Temperature	—	—	1900K-8000K
Pixel Size	3.0 μ m \times 3.0 μ m	2.2 μ m \times 2.2 μ m	1.335 μ m \times 1.335 μ m
Effective Pixels	2.0MP	5.0MP	16.0MP
Max. Resolution	2304H \times 1296V	2584H \times 1936V	4608H \times 3456V
Scan Mode	Progressive	Progressive	Progressive
Shutter	Rolling shutter	Rolling shutter	Rolling shutter
Frame Rate	8fps @ 3MP (2304 \times 1296)	14fps @ 2584 \times 1936	5fps @ 16MP (4608 \times 3456)
	30fps @ 2MP (1920 \times 1080)	23fps @ 2040 \times 1528	25fps @ 4MP (2304 \times 1728)
		30fps @1592 \times 1192	30fps @ 1600 \times 1200
		35fps @1016 \times 760	30fps @ 1280 \times 960
Color Depth	24 bit	24 bit	24 bit

Specification

A/D	8 bit	8 bit	8 bit
Exposure Control	Manual/Auto	Manual/Auto	Manual/Auto
Exposure Time(s)	0.001-0.033s	0.001-1s	0.001-1s
White Balance	Manual/Auto	Manual/Auto	Manual/Auto
Data Interface	USB3.0/5Gb/s	USB3.0/5Gb/s	USB3.0/5Gb/s
Operating system	Windows 2000/XP/ Vista/Win7/Win8/Win10, 32bit & 64bit	Windows 2000/XP/ Vista/Win7/Win8/Win10, 32bit & 64bit, Mac/Linux	
Power Supply	USB3.0 Power Supply, 300~500mA@5V		
Operating Temperature	0-60°C		
Operating Humidity	45%-85%		
Storage Temperature	-20-70°C		
Optical Port	Standard C-mount		