

# STALWART

## CMOS Color Microscope Digital Cameras STC2B Series



STC2B Series

## Introduction

STC2B Series USB2.0 digital cameras are mainly designed for microscopes to capture microscope images, videos and display real-time live video on your PC screen. They come with a high-resolution digital camera, built-in IR filter and user-friendly software. Adapters for all sizes of microscopes are optional. The cameras can provide high quality image and are widely used in academic and medical field for high precision and resolution image capturing and processing.

## Specification

Item	STC2B-130C	STC2B-320C	STC2B-500C	STC2B-1000C
Image Sensor	1/2.5" CMOS Sensor, Micron MT9P031	1/2" CMOS Sensor, Micron MT9T001	1/2.5" CMOS Sensor, Micron MT9P031	1/2.3" CMOS Sensor, Micron MT9J001
Effective Pixels	1.3MP	3.2MP	5.0MP	10.0MP
Resolution	1272×952	2048×1536	2592×1944	3856×2764
Pixel Size	2.2μm×2.2μm	3.2μm×3.2μm	2.2μm×2.2μm	1.67μm×1.67μm
Frame Rate	16fps@1272×952 46fps@632×472	12fps@2048×1528 33fps@1016×760 46fps@632×472	6fps@2584×1936 15fps@1272×952 23fps@632×472	3fps@3656×2740 7fps@1824×1362 33fps@908×672
Sensitivity	1.4 V/lux-S(550nm)	1.0 V/lux-S(550nm)	1.4 V/lux-S(550nm)	0.44 V/lux-S(550nm)
Exposure Time	0.001-0.2 sec	0.001-0.5 sec	0.001-0.5 sec	0.001-0.5 sec
Dynamic Range	60dB	54dB	60dB	56dB
SNR	40.5dB	43dB	40.5dB	43dB
Color Depth	24bit			
A/D	8-bit			
Exposure Control	Auto/Manual			
White Balance	Auto/Manual			
Scan Mode	Progressive Scan			
Shutter Type	Electronic rolling shutter			
Filter	RGB filter			
Lens Interface	C/CS			
Data Output	USB2.0, 480Mb/s			
Power Supply	USB2.0, 500mA			
Working Temperature	0°C ~ 60°C			

# Specification

Storage	-20°C ~ 70°C
Temperature	
Working Humidity	45%~ 85%
Operating System	Windows 2000/XP/ Vista/Win7/Win8/Win 10/Mac
Size and Weight	69mm×87mm×44mm, 220g