

STALWART

4K UHD HDMI Color Digital Camera SHDS800C Plus



SHDS800C Plus

Introduction

As the 4K resolution UHD Screen become more and more popular, HDMI camera with 1080P resolution cannot effectively take advantage of 4K HD displays to show the fineness of images. Based on the latest HD high speed CMOS image sensor, the FPGA hardware image processing and HDMI V1.4 version interface regulation, we have released the SHDS800C PLUS 4K UHD HDMI image Measuring camera.

SHDS800C PLUS 4K UHD image Measuring camera has adopted high sensitivity 1/1.9 inch 8.3MP Sony CMOS image sensor, pixel size 1.85um, the camera has high dynamic range, high sensitivity and excellent thermal noise suppression features. The camera outputs 4K resolution of 3840 x2160 pixels, the resolution is 4 times as 1080P cameras, maximum frame rate is 30fps, no compression, no interpolation, transmission bandwidth is 5.97 Gb/s. The Camera can be connected to 4K UHD Screen via HDMI interface, it also can be connected to HDMI image acquisition card, support plug and play. The captured images will be saved to USB flash drive with BMP format, the camera supports USB flash drive up to 32 GB. 4K UHD Measure camera can ensure every detail is not to be missed.

SHDS800C PLUS has been upgraded on the basis of SHDS800C and can be controlled by a wireless mouse, the operation is simple and quick, a variety of parameters can be quickly adjusted, like cross hair overlay, image flip, freezing, captured images playback. This camera has been updated with many measurement functions, like point, line, circle, rectangle, annulus, polygon, polyline, angle, double circle, distance from point to line, concentric circles and so on. It can realize precise measurement of line, distance from point to line, angle, length, circumference, area at micron levels.

In addition to the basic millimeter, SHDS800C PLUS also supports measurement of micrometers, centimeters, inches and other units of length, which can fully meet the diversified measurement demands of users from different countries and regions in diverse applications, providing intuitive and reliable data for users' quantitative analysis. SHDS800C PLUS can save the measurement data in EXCEL and TXT format, which can realize the convenience and efficiency of data management.

This camera has the new function of importing CAD format image files. Customers can use CAD images as templates to compare and analyze with real-time images.

Specification

Item	SHDS800C PLUS
Resolution	8.3MP
Max FPS	30FPS @4K (3840 × 2160)
Sensor Type	1/1.9" CMOS sensor (Sony IMX226)
Shutter	Rolling
Color	Color
Pixel Size	1.85μm
Max Resolution	4K(3840 × 2160)
Function	measurement, edit measurement, system setting, calibration, image freeze/display, BMP image capture, image playback, measurement results export, choose language, image gray/color mode switch, mirror, flip, automatic white balance, automatic/manual exposure, gain, contrast, Gamma value, sharpness, choice of scale, undo/redo, restore to the default values, etc

Specification

Measure Function	Point, arbitrary line, circle, rectangle, annulus, polygon, polyline, angle, double circle, distance from point to line, concentric circle, Import DXF files and other extended functions etc.
Interface	HDMI v1.4 × 1, USB2.0 × 2, 12V DC In × 1
Memory	USB Flash Drive, support up to 32GB (FAT32 format)
Input Power Supply	DC 12V/2A
Lens Mount	C-mount
Camera Dimension	81×55×43mm
Weight	168 g
Accessories	12V 2A Power Supply Adapter × 1 , HDMI Cable × 1

Application

SHDS800C Plus 4K UHD HDMI digital camera can be widely used in video conferencing, remote medical diagnosis, microscopy images, industrial inspection, video projectors, security monitoring field. With the high image quality and easy to operate features, it will be your best assistant for following applications:

- Live Cell Imaging
- Surgical Microscopic Imaging
- Pathology
- Cytology
- Defect Analysis
- Semiconductor Inspection
- Electronics and circuit board inspection
- Metrology
- Navigation for Processed Imaging
- Industrial Optical HD Digital Imaging
- Astronomical Observation