Vaiśeshika®

IMAGE CAPTURING DEVICES: MICROSCOPY CAMERAS: MODEL: 7001 5N-HDMI

Description

'Vaiseshika' offers a multiple interfaces (HDMI+WiFi+SD card, X here means multiple interfaces) CMOS camera and it adopts ultra-high performance Sony CMOS sensor as the image-picking device. HDMI+WiFi are used as the data transfer interface to HDMI display or computer.

Application & Uses

- For HDMI output, it will be loaded and a camera control panel and toolbar are overlaid on the HDMI screen, in this case, the USB mouse can be used to set the camera, browse and compare the captured image, play the video ital.
- For WiFi output, unplug the mouse and plug in the USB WiFi adapter, connect the computer WiFi to the camera, then the video stream can be transfer to computer with the advanced software, you can control the camera, process the image as other USB series camera.

Features & Function:

- All in 1(HDMI+WiFi) C-mount camera with Sony high sensitivity CMOS sensor;
- 1920 × 1080 (1080P) resolutions to match the current high-definition displayer on the market; Support plug and play application;
- For HDMI application, 5.04M resolution image(2592*1944) or 2.0M resolution image(1920*1080 (Global Shutter for PHE)) can be captured and saved for browsing; For video, 1080P video stream(asf format) can be captured and saved;
- With the USB WiFi adapter, the 7001-5N-HDMI can be used as WiFi camera, the advanced image processing software is used to display the video and capture image. support plug and play application;
- Ultra-Fine Color Engine with perfect color reproduction capability(WiFi);
- With advanced video & image processing application, which including professional image processing such as 2D measurement, HDR, image stitching, EDF(Extended Depth of Focus), image segmentation & count, image stacking, color composite and denoising(USB);
- 7001-5N-HDMI can meet various applications and can be widely used in industrial inspection, education and research, materials analysis, precision measurement, medical analyses etc.

The possible applications are as follows:

- Scientific research, education (teaching, demonstration and academic exchanges);
- Digital laboratory, medical research;
- Industrial visual (PCB examination, IC quality control);
- Medical treatment (pathological observation);
- Food (microbial colony observation and counting);
- Aerospace, military (high sophisticated weapons);

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Specification:

Order Code	Sensor & Size(mm)	Pixel (µm)	G Sensitivity Dark Signal	FPS/Resolution	Binning	Exposure
7001-5N-HDMI	1080P/5M/Sony IMX178(C) 1/1.8"(6.22x4.67)	2.4x2.4	425mv with 1/30s 0.15mv with 1/30s	60/1920*1080 (HDMI) 25/1920x1080 (WiFi)	1x1	0.03ms~918ms

Interface & Button Functions

USB	USB Mouse/USB WiFi Adapter
HDMI	HDMI Output
DC12V	12V Power in
SD	SD Card Slot
ON/OFF	Power On/off Switch
LED	Power Indicator
C Mount	0.5X Video /Still Imaging Adaptor

Other Specification for HDMI Output	
UI Operation	With USB Mouse to Operate on the embedded 7001-5N-HDMI
Image Capture	JPEG Format with 5M Resolution (2592*1944) in SD Card(8G), JPEG Format with 2M Resolution in SD Card
Video Record	ASF Format 1080P 30fps in SD Card(8G)
Camera Control Panel	Including Exposure, Gain, White Balance, Color Adjustment, Sharpness and Denoising Control
Toolbar	Including Zoom, Mirror, Comparison, Freeze, Cross, Browser Function, Muti-language
Other Specification for WiFi Output	
UI Operation	Windows/Linux/OSX/Android Platform
WiFi Performance	802.11n 150Mbps; RF Power 20dBm(Maximum)
Maximum Connected Devices	3~6(According to the Environment and Connection Distance)
White Balance	Auto White Balance
Color Technique	Ultra-Fine^{TM} Color Engine (WiFi)
Capture/Control API	Standard SDK for Windows/Linux/Mac(WiFi)
Recording System	Still Picture or Movie (WiFi)
Software Environment (for USB2.0 Connection)	
Operating System	Microsoft® Windows® XP / Vista / 7 / 8 / 8.1/10(32 & 64 bit) OSx(Mac OS X) Linux