



BLC-280 LCD C-mount HDMI+USB Output CMOS Camera





BLC-280 = BHC4-1080P8MPB HDMI Camera + HD1080P133A LCD Monitor

Introduction

BLC-280 LCD digital camera is a combination of BHC4-1080P8MPB HDMI digital camera and HD1080P133A 13.3" high-definition IPS LCD display. The multiple interfaces (HDMI+USB2.0+SD card) CMOS camera has adopted ultra-high performance Sony IMX415 CMOS sensor as the image-picking device. HDMI+USB2.0 are used as the data transfer interface to HDMI display or computer.

HD1080P133A HD LCD screen has adopted IPS LCD panel (Super TFT) to guarantee the wide view angle and high contrast. Together with the HDMI camera, HD1080P133A could make the imaging & display solution simple, flexible and intuitive. Outstanding performance of HD1080P133A helps the HDMI camera reach fast frame rate and excellent color.

For HDMI output, The XCamView will be loaded and a camera control panel and toolbar are overlaid on the





HDMI LCD dsiplayer. In this case, the USB mouse can be used to set the camera, browse and compare the captured image, play the video and make measurements.

For USB2.0 output, unplug the mouse and plug in the USB2.0 cable to the camera and computer, then the video stream can be transfer to computer with the advanced software ImageView.

The included Windows software ImageView offers image-development and measurement tools, as well as advanced compositing features such as image-stitching and extended-depth-of-focus. With the ability to calibrate scales at multiple magnifications, the software can be used for multi-level inspection.

For Mac and Linux, there is a lite version of the software which can capture video and still images, and includes limited processing features.

Features

The BLC-280 LCD digital camera's basic characteristics are as follows:

- 1. All in 1(HDMI+USB+SD card) C-mount camera with Sony high sensitivity CMOS sensor;
- 2. Simultaneous HDMI & USB output;
- 3. Built-in mouse control;
- 4. Built-in image capture & video record to SD card;
- 5. Built-in camera control panel, including exposure(manual/auto)/gain, white balance(lockable), color adjustment, sharpness and denoising control;
- 6. Built-in toolbar including zoom, mirror, comparison, freeze, cross, browser functions;
- 7. Built-in image & video browsing, display & play;
- 8. Ultra-Fine color engine with perfect color reproduction capability (USB2.0);
- 9. Support standard UVC for Windows/Linux/Mac (USB);
- 10. With advanced video & image processing application ImageView, 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);
- 11. CNC precision machining shell;
- 12. True 1080P HDMI displayer;
- 13. 13.3 inch active area;
- 14. IPS LCD panel, 178 degree wide viewing angle;
- 15. HDR dynamic image enhancement;
- 16. 72% SRGB primary gamut;
- 17. 400cd/m2 display brightness, high contrast ratio up to 1000:1;

18. 4mm narrow frame design on three sides, with 90% of the screen area, great visual experience;

19. No delay is felt with 3ms response, and dynamic definition is optimized to keep the picture stable and clear without residual shadow;





20. Integrated invisible folding support, easy viewing angle adjustment.

Application

The possible applications of BLC-280 LCD digital camera are as follows:

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

BLC-280 LCD Digital camera Datasheet

1. Camera Specification (BHC4-1080P8MPB)

Order Code	Sensor & Size(mm)	Pixel(µm)	G Sensitivity Dark Signal	FPS/Resolution	Binnin g	Exposure
BLC-280	Sony IMX415(C)	1.45x1.45	300mv with 1/30s	30@1920*1080(HDMI)	1x1	0.04~1000
	1/2.8"(5.57x3.13)		0.13mv with 1/30s	30@3840*2160(USB)		



Interface	Function Description
USB Mouse	Connect USB mouse for easy operation with embedded XCamView software;
USB Video	Connect PC or other host device to realize video image transmission;
HDMI	Comply with HDMI1.4 standard. 1080P format video output for standard displayer;
DC12V	Power adapter connection (12V/1A);
SD	Comply with SDIO3.0 standard and SD card could be inserted for video and images storage;
LED	LED status indicator;
ON/OFF	Power switch;
Video Output Interface	Function Description





HDMI Interface Comply with HDMI1.4 standard; 30fp;@1080P; USB Video Interface Connecting USB port of PC for video transfer; MJPEG format video; Function Name Function Description Video Saving Video format: 1920*1080, H264/H265 format video; Image Capture BMP (3840*2160) JPEG/TIFF image in SD card; Measurement Saving Measurement information is saved in layer mode with image content; Measurement information is saved in layer mode with image content; Measurement information is saved in layer mode with image content; Measurement information is saved in layer mode with image content; Measurement information is saved in layer mode with image content; Image Operations Zoom Inf.Zoom Out, Mirror/Filp, Freeze, Cross Line, Overlay, Embedded Files Browser, Video Playback, Measurement Function Embedded To support accurate time on board Rectore Factory Support English / Simplified Chinese / Traditional Chinese / Korean / Thai / French / German / Japanese / Support White Balance Auto White Balance Color Technique Ultra -fine Color Engine Quertaring System Still Picture or Movie PG Requirements Still Victu 7 / 8 / 8.1 / 10(32 & 64 bit) Operating System Sti						
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Power Supply DC 12V/1A Adapter	Storage Humidity	10~60%RH				
	Power Supply	DC 12V/1A Adapter				





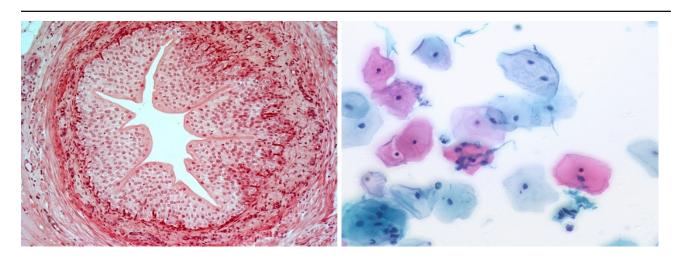
2. LCD Screen Specification (HD1080P133A)

Order Code	Active Area(Inch)	Video Fomat	Resolution	Contrast	Color Gamut	View Angle		
HD1080P133A	13.3	HDMI	1080P	1000:1	72%	IPS Full View(178°)		
		Н	D1080P133A Data	sheet				
			Basic Performan	æ				
LCD Panel		IPS LCD Screen (Super TFT)						
Input Video Forn	nat	НДМІ						
Native Resolutio	n	1920 x 1080						
Display Type		16:9 Ratio 13.3 Inch Active Matrix Super TFT LCD						
Typical Contrast	Ratio	1000:1						
Colors		16.7 Million	16.7 Million					
Viewing Angle(L/	/R/U/D)	IPS Full View	IPS Full View (178°)					
Active Display Area		295mm(W) × 165mm(H)						
Pixel Pitch		0.154(W) X 0.154(H) mm						
Refresh Rate		60Hz						
Brightness		400cd/m ²						
Backlight		LED Backlight, 50000 hours						
Outline Parameter								
Color		Black						
Dimension		306(L)*183(H)*8(T) mm						
Weight		450g						
	Operating Environment							
Operating Tempe	erature	-15 Degree~55 Degree						
Humidity Non Co	ondensing	Operating:10%-90%, Storage: 5%-90%						
Synchronization	Range	30-80 KHz Horizontal, 55-75 Hz Vertical						
Power Supply		AC110V-220V /DC5~12V(1A) (Type C)						
Power Consump	tion	Max 12W						

Sample Images







Dimension of BLC-280 LCD Digital Camera







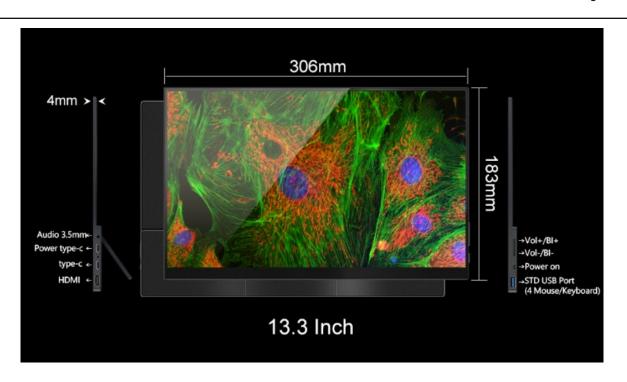
Dimension of BHC4-1080P8MPB Camera

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Integrated Folding Support of HD1080P133A Displayer







Dimension, Interface and Control Button of HD1080P133A Displayer