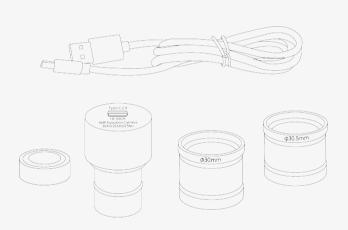
FHD Digital Eyepiece

User Manual

HY-800M



Please read the manual carefully before using the product to ensure that the product functions are used correctly and keep the manual for future reference

Product parameter

Model	HY-800M				
Name	Type-C USB 8MP Digi	tal Micro	oscope Came	era for eyepiece	
Image Sensor	SONY 1/2.3" Color IM	X377 CM	OS Image se	ensor	
Pixel size	1.55μm (H) ×1.55μm	(V)			
Support UVC	USB Video Class (UV	C)			
Dynamic Range	74 dB (Linear) -85 dE	B (HDR)			
Working temperature	-25°C~70°C	Exposu	ire control	Auto/Manual	
Sensitive	2400 mV/Lux-sec	Spectr	al response	400nm~700nm	
Interface	Type-C 2.0, 480Mb/s	Suppo	ort OTG	USB2.0 OTG	
White balance	One-click White Bala	ince/Aut	o/Manual		
Scanning method	Progressive scanning compression.	g, real 8	MP image se	nsor no	
Lens interface	20/23.2mm interfac 30mm,30.5mm adap			roptional),	
Preservable parameters	Brightness; Contrast Sharpness; Gamma; Backlight Contrast; E	Gain; W	hite Balance		
	MJPEG			YUY	
	3840x2160 @ 25fps; 2592x1944 @ 25fps;		3840x2160 @ 1fps; 2592x1944 @ 1fps;		
Video recording	2084x1536 @ 25fps; 1920x108	0 @ 25fps;	2084x1536 @ 1	fps; 1920x1080 @ 5fps;	
	1280x720 @ 25fps; 800x600 @	25fps	1280x720@10	fps; 800x600 @ 15fps	
	640x480 HDR @ 25fps;		640x480 HDR @) 15fps;	
Support System	WinXP/Win7/Win10/v MAC-OS X10.4.8 or la		Linux / Andr	oid	











HY-800M Digital Eyepiece

Adapter Ring φ30/30.5mm

USB2.0 Cable

User Manual

HAYEAR Measurement Software

Measurement software download link: http://www.hayear.com

HAYEAR measurement software is a dynamic image processing software developed for camera imaging with the following features:

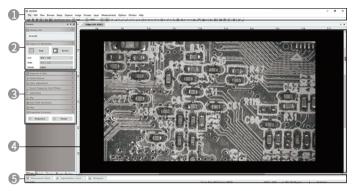
- 1.Support multiple cameras, can be switched to use at any time.
- The image preview is rendered by GPU and supports high-resolution and high frame rate dynamic image display.
- 3.Supports dynamic image measurement function.
- 4. The software is easy and convenient to operate.

Camera focus function and other function parameters on the software setting.

Properties			×
Video Proc Amp Camera Control			
			Auto
Brightness	-	0	
Contrast		64	
Hue		64	
Saturation		128	
Shargness	-	128	
Gamma	-	4	
White Balance		8597	
Backlight Comp	1	80	
Gain		63	
ColorEnable	PowerLine Frequency (S0 Hz) (Anti Flicker)		×
	Default		
	OK Cano	ø	Apply

Video Proc Amp Cam				
				Auto
	-			
Eccus	1			
Exposure		-	-7	8
Aperture (Iris)	l		0	
Ban	-			
	J			
	i			
Low Ligh	tm			
Compensatio		Default		

Software Interface



1.Main menu: for interface setting, language setting, crosshairs setting, measurement function setting, software information, etc.

2.Toolbar: provide common operations such as taking photo, recording video, switching resolution, video format.

3.Sidebar switching tabs: control panel, provides functions such as camera attribute settings, color settings, and exposure settings.

4.Camera preview window and measurement preview.

5. Status Bar: Used to display status information and control related to software display, such as full-screen display, zoom in out out, etc.

Image capture

Currently the software offers photo, video, and measurement functions:

1.Snap: Click Snap to capture a photo. Double-click

on a captured photo to select the photo format.

Record: Click the Record button to start recording.

Click again to stop recording. Video files are H.264 files with MP4 extension.

3.Browser: Click the Browse button to open the location where the image file is stored.



Calibration Tutorial

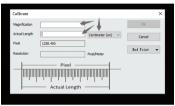
1.Please choose: **Pixel**, **100%**, **Maximum resolution**. Manual focus mode is the only way to calibrate, calibration is not accurate in autofocus mode.



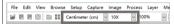
2.Find "Calibration" in "Option".



3.P.S.: (Need to find known size products to calibrate) Magnification can be freely filled in the name (can be filled in according to the lens magnification) need to measure the length of the object to select the corresponding unit, drag the line to the corresponding length..



After the calibration, you have to select the measurement unit as the picture below.



Unit-The measurement unit you need. Magnification-The name given at previous calibration.

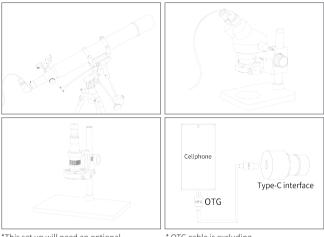
The measurement function is ready to go.

* For calibration set up video, please refer to this link:http://www.hayear.com/?video/356

Troubleshooting guide

If the preview image is blank or the device name is not displayed, it may be because the graphics card driver is not installed, please go to the official website of the corresponding graphics card to download and install the latest graphics card driver. Laptops need to disable the built-in camera to get the preview images. If you plug into the front USB port of the desktop computer does not work, please try to plug into the back USB port.

Range of Application



*This set up will need an optional adapter: 31.7mm adapter.

* OTG cable is excluding.



Shenzhen Hayear Electronics Co. Ltd. http://www.hayear.com