



# Embedded Smart Camera

5G Wi-Fi and 4K Ultra HD technology enhance your scientific research. More compatible, more convenient and better performance.



## Features & Benefits

- Work seamlessly with a wide range of computing and mobile devices running most major operating systems, from Windows to iOS, and Android
- Come with imaging APP, automatically display live images after power on
- Embedded 50%/50% light splitting design without damaging the original optical system
- Built-in high power reduction lens for large field of view
- Precise and simple focus of screw rod to realize eyepiece-to-monitor synchronization
- 32GB built-in RAM, support U-disk storage for picture and video
- USB interface for wireless keyboard and mouse, easy to input and operate the system
- Mobile devices access the system by scanning the exclusive QR code
- Connect to PC through Wi-Fi, and 1080P HDMI output to display, TV and projector

## Specifications

Camera model	TE800	TE800-N	TE800-L	TE800-Z
Applicable microscope	Olympus CX series, BX series	Nikon E series, Ci/Ni series	Leica DM series	Zeiss Primo Star
Coupler type	Dovetail groove of corresponding microscope			
Resolution	8.0 MP (3840x2160)			
Sensor type	SONY IMX334 CMOS			
Shutter type	Electronic rolling shutter			
Sensor size	1/1.8"			
Pixel size	2.0 $\mu$ m x 2.0 $\mu$ m			
Dynamic range	> 72dB (Non-HDR mode)			
SNR	$\geq$ 56dB			
Spectral response	380~650nm			
Exposure	3.9ms~320ms, Automatic & Manual			
White balance	Real-time Automatic, Manual adjustment			
Frame rate	25fps @ 3840x2160			
Record format	Image capture format: JPG; Resolution: 3840x2160, 2592x1944, 1920x1080 Video record format: MP4 file; Resolution: 1920x1080 @ 25fps			
HDMI output	Automatically adapt to monitor, Max.: 3840x2160 P30			
WiFi protocol	5G WiFi IEEE 802.11ac			
Working frequency	5.180~5.825GHz			

Camera model	TE1200	TE1200-N	TE1200-L	TE1200-Z
Applicable microscope	Olympus CX series, BX series	Nikon E series, Ci/Ni series	Leica DM series	Zeiss Primo Star
Coupler type	Dovetail groove for corresponding microscope			
Resolution	12.0 MP (4000x3000)			
Sensor type	SONY IMX412 CMOS			
Shutter type	Electronic rolling shutter			
Sensor size	1/2.3"			
Pixel size	1.55 $\mu$ m x 1.55 $\mu$ m			
Dynamic range	TBD			
SNR	TBD			
Spectral response	380~650nm			
Exposure	Real-time Automatic, Manual adjustment			
White balance	Real-time Automatic, Manual adjustment			
Frame rate	25fps @ 3840x2160; 15fps @ 4000x3000			
Record format	Image capture format: JPG; Resolution: 4000x3000, 3840x2160, 2592x1944, 1920x1080 Video record format: MOV; Resolution: 1920x1080 @ 25fps			
HDMI output	Automatically adapt to monitor, Max.: 3840x2160 P30			
Wi-Fi protocol	5G WiFi IEEE 802.11ac			
Working frequency	5.180~5.825GHz			

\* For Nikon Ei Microscope, the models of camera are TE800-NE and TE1200-NE.

## Dimensions

