

Features

- **Full Function USB Interface**

Full function USB interface, compatibility USB3.0 and USB2.0, support audio, support compressed video output, support UVC v1.1~1.5 protocol.

- **1080P Full HD**

Apply Panasonic's 1/2.7 inch, 2.07 million effective pixels high quality HD CMOS sensor, can reach maximum 1920 x 1080 high resolution and achieve quality image.

- **Ultra-high Frame Rate**

The output frame rate up to 30fps in 1080P.

- **72.5° Wide-angle Lens + 16x Digital Zoom**

Use 72.5° wide-angle high quality lens, support 12x optical zoom, and 16x digital zoom.

- **Low-light**

High SNR of CMOS sensor combined with 2D and 3D noise reduction algorithm, effectively reduce the noise, even under low illumination conditions, picture can still keep clean and clear.

- **Remote Control**

Using RS232 all the parameters of the camera can be remote controlled by the high-speed communications.

- **H.264 Slice/ H.264 SVC Support**

Support Slice and SVC encoding mode, adapts to video conference of advance USB application.

- **Dual stream**

Support two stream output (YUY2, MJPEG, H.264 each of both), reduce the host codec pressure

Camera

Video CMOS Sensor	1/2.7", CMOS, Effective Pixel: 2.07M
Frame Rate	1080P, 720P, 540P, 480P, 360P, 240P etc.
Lens Zoom	12x, f3.5mm ~ 42.3mm, F1.8 ~ F2.8
Horizontal Field of View	72.5° ~ 6.9°
Vertical Angle of View	44.8° ~ 3.9°
Min Lux	0.05 lux @ (F1.8, AGC ON)
Shutter Speed	1/30s to 1/10000s
White Balance	Auto, Indoor, Outdoor, One-Push, Manual
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction
Video S/N	≥55dB
Image Freeze	Support
Ceiling Installation	Supported
Vertical Flip & Mirror	Supported
Working environment	INDOOR

Mechanical

Pan Rotation Angle	±170°
Tilt Rotation Angle	-30°~ +90°
Pan Speed (per second)	2.7° ~ 35.7°/s
Tilt Speed (per second)	2.7° ~ 31.5°/s
Presets	255 Presets
Number of Preset	0.1°
PTZ Control Protocol	Sony VISCA and PELCO D/P

USB Features

Operate System	Windows 7, Windows 8, Windows 10, Mac OS X, Linux, Android
Color System / Compression	YUV 4:2:2 / H.264 / MJPEG
Video Format	YUY2 (BULK): max to 1080P@60fps YUY2 (ISOC): max to 1080P@30fps H.264 AVC: max to 1080P@60fps H.264 SVC: max to 1080P@30fps MJPEG: max to 1080P@30fps
Audio on USB	Support
USB Video Communication Protocol	UVC 1.5
UVC PTZ	Support

IPC features

Video Compression	H.265/H.264/MJPEG
Video Stream	Main Stream, Sub Stream
Main Stream Resolution	1920x1080, 1280x720, 1024x576

Sub Stream Resolution	720x576, 720x480, 320x240
Video Bit Rate	128Kbps ~ 8192Kbps
Bit Rate Type	Variable Rate, Fixed Rate
Frame Rate	50Hz: 1fps ~ 50fps, 60Hz: 1fps ~ 60fps
Audio Compression	AAC
Audio Bit Rate	96Kbps, 128Kbps, 256Kbps
Support protocols	TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, Multicast, etc.

Interface

USB	1xUSB3.0: Type B female jack
Network Interface	1xRJ45: 10M/100M Ethernet Interface
Audio Interface	1-ch: 3.5mm Audio Interface, Line In
RS232 In	8pin Min DIN, Max Distance: 30m, Protocol: VISCA/Pelco-D/Pelco-P
Power Jack	JEITA type (DC IN 12V)/USB B type (DC IN 5V)

General

Input Voltage	DC 12V
Current Consumption	1.0A (Max)
Power Consumption	12W (Max)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F)
Storage Temperature	-40°C ~ 60°C (-40°F ~ 140°F)
Dimensions (W x H x D)	144mm x 144mm x 167.9mm
Weight	1.285 kg

