HD-400U
HD PTZ Camera Zoom 20X
USB Conference Camera

FULL HD 1080P | ZOOM 20X | 2.07 million | PTZ Camera | MIC | HDMI | USB 3.0 | IP

Camera	
Video System	HD : 1080p/60, 1080p/50, 1080i/60, 1080i/50, 1080p/30, 1080p/25, 720p/60, 720p/50, 720p/30, 720p/25 SD : 480i, 576i
Image Sensor	1/2.7", CMOS, Effective Pixel: 2.07M
Zoom	Optical : 20X
Scanning Mode	Progressive
Minimal Illumination	0.5 Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, 3000K/Indoor, 4000K, 5000K/Outdoor, 6500K_1, 6500K_2, 6500K_3, One Push,Manual
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction
Video S/N	≥55dB

PTZ	
Pan	60.7° ~ 3.36°， 1.7° ~ 100°/s
Tilt	34.1° ~ 1.89°， 1.7° ~ 69.9°/s
Horizontal Rotation Range	±170°
Vertical Rotation Range	-30° ~ +90°
H & V Flip / Image Freeze	Support
Preset Number	255
Preset Accuracy	0.1°

General Specifications	
Input Voltage	DC 12V
Current Consumption	1.0A (Max)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F)
Storage Temperature	-40°C ~ 60°C (-40°F ~ 140°F)
Power Consumption	12W (Max)
Dimensions (W*H*D)	169mm x 142mm x 164mm
Weight	1.35Kg

USB	
Operate System	Windows XP, Windows Vista, Windows 7, Windows 8, Windows 10, Mac OS X, Linux
Color System	YUV 4:2:2
USB Video Communication Protocol	UVC 1.0, UVC 1.5
UVC PTZ	Support

Video Output	
Video Format	USB3.0 : 1080p/60, 1080p/50, 1080p/30, 1080p/25, 720p/60, 720p/50, 720p/30, 720p/25 USB : 960x540p/30, 960x540p/25, 640x360p/60, 640x360p/50

IPC Network	
Video Compression	H.265 / H.264 / MJEPG
Mainstream	1920x1080, 1280x720, 1024x576
Sub Stream	720x576, 720x480, 320x240
Video Bit Rate	128Kbps ~ 8192Kbps
Bit Rate Type	Variable Rate, Fixed Rate
Frame Rate	50Hz: 1fps ~ 50fps, 60Hz: 1fps ~ 60fps, 720p120: 120fps, 640x480p240: 240fps
Audio Compression	AAC
Audio Bit Rate	96Kbps, 128Kbps, 256Kbps
Protocols	TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, Multicast , etc.

Interface	
HD Output	HDMI 1.3
SD Output	CVBS: 3.5mm , 1Vp-p, 75Ω
Network Interface	RJ45: 10M/100M
Audio Interface	1-ch: 3.5mm Audio Interface, Line In
USB	USB3.0-Type B / USB2.0- Type A
Communication Interface	RS232 / Protocol: VISCA/Pelco-D/Pelco-P RS232 / Protocol: VISCA network use only RS485 / Protocol: VISCA/Pelco-D/Pelco-P

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 60fps in 1080P, up to 120fps output in 720P (supported by network only), 640x480P can be as high as 240fps (supported by network only, optional).

20x Optical
Use TAMRON high quality super telephoto lens, support 20x optical zoom.

H.265 Support
The first H.265 encoding support conference video camera in the world, enabling full HD 1080p/60fps video stream by ultra-low bandwidth.

Support USB3.0
Ultra-high-speed interface, can transfer uncompressed original video, and downward compatible with USB2.0. USB3.0, HDMI, Network can output at the same time. It also supports CVBS interface

Microphone & AAC Audio Encoding
Support external microphone, and audio line in input. Support AAC audio encoding, better sound quality and smaller bandwidth.

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/RS485 interface, all the parameters of the camera can be remote controlled by the high-speed communications.