Features:

- First H.265 encoding supporting conference video camera. It enables full HD 1080p60 video stream with ultra-low bandwidth.
- Support Panasonic's 1/2.7 inch, 2.07 million effective pixels with high quality HD CMOS sensor. The camera can reach a maximum of 1920 x 1080 high resolution and achieve high-quality image.
- The output frame rate can be up to 60fps in 1080P, and up to 120fps in 720P (supported by network only), and up to 240fps in 640x480P (supported by network only, optional).
- Built-in face detection module which enables PTZ tracking (optional).
- Support AAC audio encoding. Better sound quality and smaller bandwidth can be achieved.
- Support local storage. Video records can be directly stored to local USB flash disk without NVR.
- High SNR of CMOS sensor combined with 2D and 3D noise reduction algorithm, effectively reduce the noise. Even under low illumination conditions, clear images can still be acquired.
- Support HDMI output and 3G-SDI interface. Effective transmission can be performed within a distance of up to 100 meters. Supports SD CVBS output.
- Use TAMRON high-quality super telephoto lens, supporting 20x optical zoom and 32x digital zoom.
- Use RS232/485 interface. All parameters of the camera can be remotely controlled by the high-speed communication.
- Support "Freeze During Preset" function, can mask the image when calling the preset.

Product Specification

Camera	
Video System	HD: 1080p/60, 1080p/50, 1080i/60, 1080i/50, 1080p/30, 1080p/25,720p/60, 720p/50,720p30,720p25, 720p/120 (supported by S Model only), 640x480p/240 (supported by S Model only, optional) SD: NTSC, PAL
Sensor	1/2.7", CMOS, Effective Pixel: 2.07M
Scanning Mode	Progressive
Lens	20x, f4.42mm ~ 88.5mm, F1.8 ~ F2.8
Digital Zoom	16x (optional)
Minimal Illumination	0.05 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
Horizontal Angle of View	60.7° ~ 3.36°
Vertical Angle of View	34.1° ~ 1.89°
Horizontal Rotation Range	±170°
Vertical Rotation Range	-30° ~ +90°
Pan Speed Range	1.7° ~ 100°/s
Tilt Speed Range	1.7° ~ 69.9°/s
H & V flip	Support
Image Freeze	Support
PoE	Support(optional)
Face Detection	Support (optional)
Local Storage	Support
Number of Preset	255
Preset Accuracy°	0.1°

IPC Features

Video coding standard	H.265/H.264/MJEPG
Video Stream	First stream, Second stream
First stream resolution	1920x1080,1280x720,1024x576,960x540,640x480,640x360
Second stream resolution	1280x720,1024x576,720x576,720x408,640x360,480x270,320x240,320x180
Bit Rate	128Kbps ~ 8192Kbps
Bit Rate Type	Variable rate, fixed rate
Frame Rate	50Hz: 1fps ~ 50fps, 60Hz: 1fps ~ 60fps, 720p120: 120fps (supported by S Model only), 640x480p240: 240fps (supported by S Model only, optional)
Audio standard	AAC
Audio rate	96K,128K,256k
Support protocols	TCP/IP, HTTP, RTSP, RTMP, multicast, DHCP, Onvif etc

Input/Output Interface

HD Output	1xHDMI: Version 1.3
	1x3G-SDI: BNC type, 800mVp-p, 75Ω, Along to SMPTE 424M standard
SD Output	1xCVBS: RCA jack, 1Vp-p, 75Ω
Network interface	1xRJ45: 10/100/1000M Adaptive Ethernet ports
Audio Input	1-ch 3.5mm audio interface, Line In
USB	1xUSB2.0: type A jack
Communication interface	1xRS-232 IN: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA/Pelco-D/Pelco-P
	1xRS-232 OUT: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA network use only
	1xRS-485: 2pin Phoenix port, Max Distance: 1200m, Protocol: VISCA/Pelco-D/Pelco-P
Power jack	JEITA type (DC IN 12V)

Generic Specification

Input Voltage	DC 12V / PoE (802.3af) (optional)
Current Consumption	1.0A (Max)

Operating Temperature	-10℃ ~ 40℃ (14°F ~ 104°F)
Storage Temperature	-40℃ ~ 60℃(-40°F ~ 140°F)
Power Consumption	12W (Max)
MTBF	>30000h
Size	169mm x 142mm x 164mm
Net Weight	1.35Kg (3.0lb)

1. Audio LINE IN Interface
2. CVBS Interface
3. System select switch
4. RS485 interface
5. RS232 In interface
6. RS232 OUT interface

7. Network Interface
8. HDMI Interface
9. SDI Interface
10. USB 2.0
11. DC 12V Jack
12. Power switch