RC821

1080P Full HD Video Conference Camera



NDI|HX 1080P 72.5° Wide-angle lens H.265

1080P Full HD
Apply Panasonic's 1/2.8 inch, 2.07 million effective pixels high quality HD CMOS sensor, can reach maximum 1920 x 1080 high resolution and achieve quality image.

Supports NDI HX,HX2
The camera can connect directly to a NDI® network, utilizing NDI-based video production workflows without additional configuration, reducing cost and set-up time.

72.5° Wide-angle Lens + 16x Digital Zoom
Use 72.5° wide-angle high quality lens, support 12x optical zoom, and 16x digital zoom (optional).

Multiple Interfaces
It supports HDMI, 3G-SDI interface, effective transmission distance up to 150 meters (under 1080P30). HDMI, SDI, Network can output at the same time. It also support CVBS interface.

Ultra-high Frame Rate
The output frame rate up to 60fps in 1080P, up to 120fps output in 720P (supported by network only).

AAC Audio Encoding
Support AAC audio encoding, better sound quality and smaller bandwidth.

Local Storage
Support local storage module, directly recording to local USB flash disk without NVR.

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.

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.

Remote Control
Using RS232/485 interface, all the parameters of the camera can be remote controlled by the high-speed communications.

Camera	
Signal System	HD: 1080P/60, 1080P/50, 1080I/60, 1080I/50, 1080P/30, 1080P/25, 720P/60, 720P/50, 720P/30, 720P/25, 1080P/59.94, 1080I/59.94, 1080P/29.97, 720P/59.94 SD: 480I, 576I
Sensor	1/2.8'', CMOS, Effective Pixel: 2.07M
Scanning Mode	Progressive
Lens	12x, f=3.5mm ~ 42.3mm, F1.8 ~ F2.8
Digital Zoom	16x
Minimal Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual, VAR
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction
Video S/N	⩾55dB
Horizontal Angle of View	72.5° ~ 6.9°
Vertical Angle of View	44.8° ~ 3.9°
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
Local Storage	Support
Number of Preset	255
Preset Accuracy	0.1°

IPC Features	
Video Compression	H.265/H.264/MJEPG
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, 720p120: 120fps, 640x480p240: 240fps
Audio Compression	AAC
Audio Bit Rate	96Kbps, 128Kbps, 256Kbps
Support protocols	NDI®|HX, NDI®|HX2, TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, Multicast, etc.

Input/Output Interface	
Audio Interface	1 x LINE IN: 3.5mm Audio Interface
CVBS Interface	1 x CVBS: 3.5mm RCA jack, 1Vp-p, 75Ω
Communication Interface	1 x RS485: 2pin phoenix port, Max Distance: 1200m, Protocol: VISCA / Pelco-D / Pelco-P
	1 x RS232 IN: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA / Pelco-D / Pelco-P
	1 x RS232 OUT: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA network use only
Network Interface	1 x RJ45: 10M/100M Adaptive Ethernet Port
HDMI Interface	1 x HDMI: Version 1.3
3G-SDI Interface	1 x 3G-SDI: BNC type, 800mVp-p, 75 Ω. Along to SMPTE 424M standard
USB Interface	1 x USB2.0: Type A female jack
Power Jack	JEITA type (DC IN 12V)



General specification	
Tally Indicator	1 (red and green colors)
Power Indicator	1 (blue)
Status Indicator	1 (yellow)
Input Voltage	DC 12V / PoE (802.3af)
Power Consumption	1.0A (Max)
Operating Temperature	0°C ~ 40°C
Storage Temperature	-40°C ~ 60°C
Power Consumption	12W (Max)
Size	152 x 142 x 177 (mm)
Net Weight	1.35Kg (3.0lb)