Full HD Intelligent Professional NDI PTZ Camera

NT-VC-12

1080P Full HD | AI Intelligent Tracking | ISP Image Algorithm | Low Latency | Multiple Interfaces

1080P Full HD

Utilizing a 1/2.8-inch, 2.07 million effective pixel HD CMOS sensor, these cameras achieve a maximum resolution of 1920×1080.

High-Quality Optical Zoom + HD Wide-Angle Lenses

NT-VC-12：
Equipped with a full HD lens, supporting a classic 12× optical zoom with a 72.5° horizontal FoV

ISP Image Processing Algorithm

It uses ISP image processing algorithms to enhance white balance and automatic exposure functions, significantly improving the camera's image output. Widely applied in industries such as education recording, remote education, video conferencing, live streaming, and b

Auto Focus

Incorporating advanced focusing algorithms, the lens achieves rapid, accurate, and stable focusing.

Full Interface Low Latency

All video output interfacesmeet low latency standards, supporting 4 simultaneous outputs, all capable of 1080P60.

Upgraded AI Technology

Equipped with AI algorithms like pedestrian re-identification and facial recognition, accurately identifying target's movements, automatically adjusting the lens. It can also recognize and track subjects automatically, no need for manual operation.

Support FULL NDI2

Support FULL NDI2, which allows the transmission of NDI-encoded videos. They are also backward compatible with NDI®|HX2 protocol, which requires lower network bandwidth and enables low-latency transmission of H.265/H.264 encoded videos

Support for NDI®|HX22

Support NDI®|HX2 protocol, which enables low-latency transmission of H.265/H.264 encoded videos over the network, with lower required network bandwidth

Product Specification

Difference		NT-VC-12	NT-VC-30
Lens		12x, f3.5mm ~ 42.3mm, F1.8 ~ F2.8	30x, f4.42mm ~ 132.6mm, F1.8 ~ F2.8
Horizontal FOV		72.5° ~ 6.9°	60.7° ~ 2.28°
Vertical FOV		44.8° ~ 3.9°	34.1° ~ 1.28°
HD Output		1 x HDMI: Version 1.3; 1 x 3G-SDI: BNC , 800mVp-p, 75Ω, as per SMPTE 424M standard	
Protocols		FULL NDI, NDI|HX2, TCP/IP, HTTP, RTSP, RTMP, RTMP(s), Onvif, DHCP, Multicast, ,SRT,GB/T28181 etc.	

▼ Camera Spec

Signal System	HDMI、3G-SDI: 1080P60，1080P59.94，1080P50，1080I60， 1080I59.94，1080I50，1080P30，1080P29.97， 1080P25，720P60，720P59.94，720P50
Sensor	1/2.8 inches, CMOS, Effective Pixels: 2.07 Megapixels
Scanning Mode	Progressive
Digital Zoom	16×
Minimum 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
SNR	≥ 55dB
Pan Angle	±170°
Tilt Angle	-30° ~ +90°
Pan Speed	1.7° ~ 100° /s
Tilt Speed	1.7° ~ 69.9° /s
Image Flip	Support
Image Freeze	Support
Preset Position	255
Preset Accuracy	0.1°

▼ Audio

Microphone Array	Built-in dual microphones, 100Hz to 16KHz frequency response.
Analog Audio Input/Output	Support 3.5mm Line-In; Support 3.5mm Line-Out
Digital Audio Output	Support HDMI, USB, LAN, 3G-SDI etc

▼ I/O

Audio Interface	1 x Line In, 3.5mm Jack 1 x Line Out, 3.5mm Jack
Control Interface	1 x RS485: 2pin phoenix port, Max Distance: 1200m, Protocol: VISCA / Pelco-D / Pelco-P; 1 x RS232 IN: 8pin Mini DIN, Max Distance: 30m, Protocol: VISCA / Pelco-D / Pelco-P; 1 x RS232 OUT: 8pin Mini DIN, Max Distance: 30m, Protocol: VISCA only
Power Interface	JEITA type（DC IN 12V)

▼ Network Spec

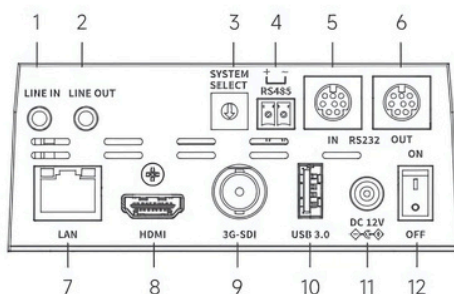|	
Video Compression	H.264
Video Stream	First Stream, Second Stream
First Stream Resolution	1920x1080, 1280x720, 1024x576 etc.
Second Stream Resolution	1280x720,1024x576,720x576 etc.
Video Bit Rate	32kbps~20480kbps
Bit Rate Control	VBR, CBR
Frame Rate	1fps ~ 60fps
Audio Compression	AAC
Audio Bit Rate	96Kbps，128Kbps，256Kbps

▼ USB Spec

Operating System Supported	Windows 7 (only supports UVC1.1 features), Windows 8 and above version, Mac OS X, Linux 2.4.6 and above version, Android needs to include the version of UVC-related drivers
Color System / Compression	YUY2 / H.264 / MJPEG
Video Format	Support a variety of different frame rates and resolution video formats, up to 1080p60 YUY2 output
USB Audio	32K Sampling Rate，Support UAC2.0
USB Video Communication Protocol	UVC 1.1~1.5
UVC PTZ Control	Support

▼ Generic Spec

Input Voltage	DC 12V / PoE+ （802.3at)
Input Current	1.5 A（Max.)
Operating Temperature	0° C ~ 40° C
Storage Temperature	-40° C ~ 60° C
Power Consumption	15W（Max.)
Dimension	142mm (W)×169mm (D)×175mm (H)
Net Weight	1.5kg

Interface Diagram

1 —— LINE IN		7 —— LAN	
2 —— LINE OUT		8 —— HDMI	
3 —— SYSTEM SELECT		9 —— 3G-SDI	
4 —— RS485		10 —— USB3.0	
5 —— RS232 IN		11 —— DC 12V	
6 —— RS232 OUT		12 —— ON/OFF	