

1080P FULL HD SERIES • BR-VC12XH

Full HD Intelligent Professional NDI PTZ Camera

HD Video Conferencing Camera — BR-VC12XH

Designed for activities such as work presentations and business negotiations, the BR-VC12XH features a 1080P full HD wide-angle lens with 12× optical zoom, ensuring clarity at various distances. Equipped with AI automatic framing and humanoid tracking algorithms, this camera provides a professional and intelligent meeting experience without manual intervention.

1080P
FULL HDAI PRESENTER
TRACKINGISP IMAGE
ALGORITHMLOW
LATENCYMULTIPLE
INTERFACES

DARK GREY

01.1 Features

IMAGING • AI • CONNECTIVITY

1080P Full HD

Utilizing a 1/2.8-inch, 2.07 million effective pixel HD CMOS sensor, this camera achieves a maximum resolution of 1920×1080.

High-Quality Optical Zoom + HD Lens

Equipped with a full HD wide angle lens, supporting a classic 12× optical zoom with a 72.5° horizontal FoV.

AI Presenter Tracking

Equipped with in-house-developed ReID technology, the device identifies the speaker's figure, appearance, and outfit. As the speaker moves within the room, the camera automatically tracks them, ensuring the target remains centered. Even if there are interferences or the speaker exits the frame, the camera swiftly recaptures and tracks them upon reentry.

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 broadcasting.

Full Interface Low Latency

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

Auto Focus

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

Support Full NDI®²

Support Full NDI, 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.

Note:

1. This feature is optional.
2. NDI is an optional feature, with a free trial of 25 minutes each time the device is powered on. A complete experience requires additional payment.

02.1 Camera Spec

Lens	12x, f = 3.5 – 42.3mm, F1.8 – F2.8
Horizontal FOV	72.5° – 6.9°
Vertical FOV	44.8° – 3.9°
Signal system	HDMI, 3G-SDI: 1080P60, 1080P59.94, 1080P50, 1080I60, 1080I59.94, 1080I50, 1080P30, 1080P29.97, 1080P25, 720P60, 720P59.94, 720P50
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, etc.
Sensor	1/2.8-inch, CMOS, Effective Pixels: 2.07 MP
Scanning mode	Progressive
Digital zoom	16X
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 & freeze	Support
Preset position	255
Preset accuracy	0.1°

04.3 Generic Spec

Input voltage	DC 12V / PoE+ (802.3at)
Input current	1.5A (Max.)
Operating temperature	0°C ~ 40°C
Storage temperature	-40°C ~ 60°C
Power consumption	15W (Max.)
Dimension (W x D x H)	142 × 169 × 175mm
Net weight	1.5kg

03.1 Network Spec

Video compression	H.264 / MJPEG
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

03.3 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

04.2 Input / Output Interface

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)

03.2 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 Class (UVC)	UVC 1.1~1.5
UVC PTZ control	Support

04.1 Interface Diagram