

4K Ultra HD Series (4K@30fps)

Q-BRITE imaginArt

4K Professional NDI PTZ Camera ALVX61

Designed for medium to large meeting rooms, these cameras feature a larger UHD CMOS sensor, delivering 4K (3840×2160) images. Equipped with 12-20X optical zoom and intelligent exposure technology, they achieve precise recognition and tracking shots of targets from any position in the venue.



Features

4K UHD
Utilizes a UHD CMOS sensor with a size of 1/2.5 inches and 8.51 million pixels. ALVX61 deliver 4K (3840×2160) images and are backward compatible with various resolutions, including 1080P and 720P.

Long Optical Zoom + UHD Wide-Angle Lens
Utilizes a high-quality ultra-high-resolution 4K ultra HD telephoto lens, supporting a maximum 12X optical zoom, and a 71 ° horizontal FoV.

Low Power Consumption Sleep Mode
The camera automatically enters sleep mode when power consumption is below 400mW, ensuring device safety and allowing for easy wake-up when needed.

Remote Control
Multiple control options, including RS232, RS485, network, and USB, for controlling the camera.

HDMI 1.4b
Supports HDMI 1.4b interfaces, allowing direct output of uncompressed digital video.

Low-Light Enhancement
A brand-new CMOS image sensor with SNR up to 55dB effectively reduces image noise in low-light conditions. The 3D noise reduction significantly lowers image noise, ensuring clean images in low-light situations.

Intelligent Exposure
Incorporates smart exposure image processing technology to effectively address the impact of light from devices such as projectors and TVs on the picture.

Supports NDI®|HX2
Enables low-latency, high-quality, precise frame audio and video transmission, real-time discovery, interactive control, flexible IP broadcasting modes, and outstanding response to network video production needs.

Multiple Interfaces
Supports HDMI 1.4b HD output, is equipped with a 3G-SDI interface, and has an effective transmission distance of up to 150 meters (1080P30). HDMI, LAN, or 3G-SDI, LAN can simultaneously output two HD digital signals.

Note:
1. This feature is optional.



Product Specification

Camera Spec

Signal System	HDMI：4KP30, 4KP2997, 4KP25, 1080P60, 1080P5994, 1080P50, 1080P30, 1080P2997, 1080P25, 1080I60, 1080I5994, 1080I50, 720P60, 720P5994, 720P50；3G-SDI：1080P/60, 1080P/50, 1080P/30, 1080P/2997, 1080P/5994, 1080P/25；1080I/60, 1080I/50, 1080I/5994；720P50, 720P/60, 720P/5994；	
Sensor	1/2.5 inches, CMOS, Effective Pixels: 8.51 Megapixels	
Lens	12X, f=4.4mm~52.8mm, F1.8~F2.6	
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	3D Digital Noise Reduction	
SNR	≥ 55dB	
Pan Angle	±170°	
Tilt Angle	-30° ~ +90°	
Pan Speed	1.7° ~ 100° /s	
Tilt Speed	1.7° ~ 699° /s	
Horizontal FOV	71° ~ 8.2°	
Vertical FOV	42.7° ~ 4.5	
Image Flip	Support	
Image Freeze	Support	
PoE	Support	
Preset Position	255	
Preset Accuracy	0.1°	

Generic Spec

Input Voltage	DC 12V /PoE (802.3af)
Input Current	1.5A (Max.)
Operating Temperature	0° C ~ 40° C
Storage Temperature	-40° C ~ 60° C
Power Consumption	13W (Max.)
Dimension	142mm (W) x 169mm (D) x 164mm (H)
Net Weight	1.6kg

Network Spec

Video Compression	H.265 / H.264 / MJPEG
Video Stream	First Stream, Second Stream
First Stream Resolution	3840x2160, 1920x1080, 1280x720 etc.
Second Stream Resolution	720x480, 320x240 etc.
Video Bit Rate	First Stream: 32kbps~51200kbps Second Stream: 32kbps~20480kbps
Bit Rate Control	VBR, CBR
Frame Rate	50Hz: 1fps~50fps, 60Hz:1fps~60fps
Audio Compression	AAC、G711A
Audio Bit Rate	96Kbps, 128Kbps
Protocols	NDI® HX2,SRT,TCP/IP, HTTP, RTSP, RTMP/RTMP(s), Onvif, DHCP,GB/T 28181, Multicast, etc.

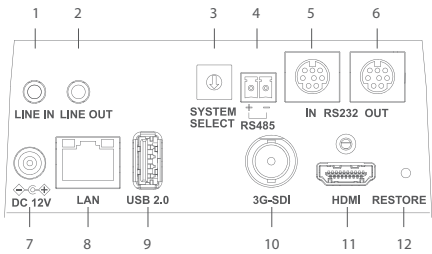
I/O

HD Output	1 x HDMI: Version 1.4b; 1 x 3G-SDI: BNC , 800mVp-p, 75Ω, as per SMPTE 424M standard
Network Interface	1 x RJ45: 10M/100M/1000M adaptive Ethernet
Audio Interface	1 x LINE IN: 3.5mm Jack 1 x LINE OUT: 3.5mm Jack
USB Interface	1 x USB2.0, Type-A (Support Host or Device mode)
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
RESTORE Button	Support
Power Interface	JEITA type (DC IN 12V)

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	H.264 / MJPEG
Video Format	H.264 AVC: Max.2160P30 ; MJPEG: Max. 2160P30
USB Audio	Support
USB Video Communication Protocol	UVC 1.1~1.5
UVC PTZ Control	Support

Interface Diagram



- 1 — LINE IN

2 — LINE OUT

3 — SYSTEM SELECT

4 — RS485

5 — RS232 IN

6 — RS232 OUT
- 7 — DC 12V

8 — LAN

9 — USB2.0

10 — 3G-SDI

11 — HDMI

12 — RESTORE