

## 4K Ultra HD Serial (30fps)

# 4K Professional PTZ Camera UAI4VX701TA / UAI4VX701RA



Equipped with high quality 4K CMOS sensor and ~12X, 71°HFOV lens, multiple interfaces and OLED display window, best choice for live streaming, live teaching/learning, church and stadium.



## Features

### 4K UHD

Use a high-quality 1/2.5 inches UHD CMOS sensor with 8.51 million pixels. Support max 4K30fps image output and multiple lower resolutions like 1080p/720p.

### 12x Optical Zoom + 71° Wide-angle Lens

4K optical lens, support max 12x optical zoom and 71° horizontal field of view, can cover the demand of Extra-large conferencing room and other scenarios need larger optical zoom.

### OLED Display

HDMI and SDI (SDI cannot display 4K) output resolution, IP address and other information.

### Built-in Microphone

The built-in microphone array captures sound from all directions, with a pickup range of up to 6 meters. Its unique noise suppression algorithm ensures perfect voice reproduction.

### HDBaseT

VX701TA: Support HDBaseT interface, support 4K video format, use CAT5E/6 network cables for compressed transmission, use the RJ45 joint transmission distance of 100 meters, and also provide POE and other control signal channels.

### Remote Control

Support multiple ways of control, like RS232, RS485, Network and USB.

### Low Illumination

The new generation high performance CMOS image sensor can significantly reduce the image noise in low illumination. With the 3D noise reduction algorithms, even in an ultra-low illumination environment, camera can still deliver a sharp and clean image with more than 55dB S/N ratio.

### Multiple Interfaces

VX701TA: HDMI, HDBaseT, LAN three routes can be output 4K videos at the same time.  
VX701RA: HDMI 1.4b, 3G-SDI (Up to 150 meters transmission with 1080P30), Support HDMI, 3G-SDI, USB, and LAN, allowing for the simultaneous output of three high-definition digital signals.

### Remark:

- This function is optional.
- The maximum pickup distance is obtained from the VHD laboratory test. The actual distance is different from the user environment.

## Product Specification

### Difference

	VX701TA	VX701RA
Signal System	HDBaseT: 4KP30, 4KP29.97, 4KP25, 1080P60, 1080P50, 1080I60, 1080I50, 1080P30, 1080P25 etc.	3G-SDI: 1080P60, 1080P50, 1080I60, 1080P59.94, 1080I59.94, 1080I50, 1080P30, 1080P29.97 etc.
HD Output	1 x HDMI: Version 1.4b	1 x HDMI: Version 1.4b; 1 x 3G-SDI: BNC, 800mVp-p, 75Ω, as per SMPTE 424M standard
Multi-functional Interface	1 x HDBASET: RJ45 (integrated video, audio, control and power supply)	-
USB Interface	-	1 x USB2.0: Type-B (Optional upgrade to USB3.0)

### Camera Spec

Signal System	HDMI: 4KP30, 4KP29.97, 4KP25, 1080P60, 1080P50, 1080I60, 1080I50, 1080P30, 1080P25, 1080P29.97 etc.
Sensor	1/2.5 inches, CMOS, Effective Pixels: 8.51 Megapixels
Scanning Mode	Progressive
Lens	12x, f=4.4mm~52.8mm, F1.8~F2.6
Digital Zoom	16x
Minimum Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual
Backlight Compensation	Support
Digital Noise Reduction	3D Digital Noise Reduction
SNR	≥55dB
Horizontal FOV	71° ~ 8.2°
Vertical FOV	42.7° ~ 4.5°
Pan Angle	±170°
Tilt Angle	-30° ~ +30°
Pan Speed	1.7° ~ 76°/s
Tilt Speed	0.5° ~ 15°/s
Image Flip	Support
Image Freeze	Support
PoE Support	
Preset Position	255
Preset Accuracy	0.1°

### I/O

Network	1 x RJ45: 10M/100M/1000M adaptive Ethernet, Support PoE
Interface Audio	1 x Line In/Mic In, 3.5mm Jack
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
Control Interface	
RESTORE Button	Support
Power Interface	JEITA type (DC IN 12V)

### USB Spec (Only VX701RA Support)

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	YUY2: Max.1080P30 (USB3.0) 1; YUY2: Max.1080P5 (USB2.0) ; H.264 AVC: Max.2160P30; H.265 HEVC: Max.2160P30; MJPEG: Max.2160P30
USB Audio	Support
USB Video Communication Protocol	UVC 1.1~1.5
UVC PTZ Control	Support

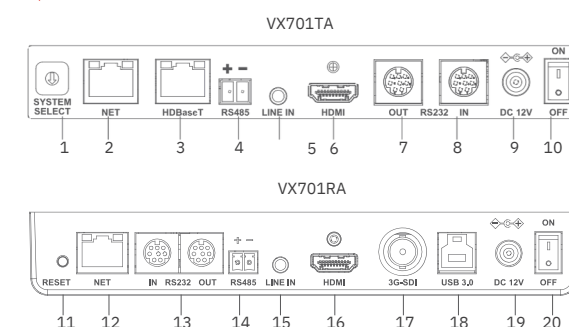
### Network Spec

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(s), Onvif, DHCP, GB/T 28181, Multicast, etc.

### Generic Spec

Input Voltage	DC 12V / PoE(802.3 af) Input
Current	1.5A (Max.)
Operating Temperature	-0°C ~ 40°C
Storage Temperature	-40°C ~ 60°C
Power Consumption	12W (Max.)
Dimension	238mm (W) x 132mm (D) x 166mm (H)
Net Weight	1.35kg

## Interface Diagram



- |                   |             |
|-------------------|-------------|
| 1 — SYSTEM SELECT | 1 — RESET   |
| 2 — NET           | 1 — NET     |
| 3 — HDBase T      | 1 — RS232   |
| 4 — RS485         | 2 — IN/OUT  |
| 5 — LINE IN       | 1 — RS485   |
| 6 — HDMI          | 3 — LINE IN |
| 7 — RS232 OUT     | 1 — HDMI    |
| 8 — RS232 IN      | 4 — 3G-SDI  |
| 9 — DC 12V        | 1 — USB 3.0 |
| 1 — ON/OFF        | 5 — DC 12V  |
| 0                 | 1 — ON/OFF  |