VC-A50P IP PTZ Camera

The Lumens® VC-A50P HD Pan/Tilt/Zoom (PTZ) IP camera is equipped with a professional 1/2.8 inch image sensor with Full HD 1080p output at 60 fps. It's power supplied through the Power over Ethernet (PoE+) providing an economical and easy solution. The superior 20x optical zoom lens, excellent white balance, and exposure mode delivers a clear image even in low light or the extreme contrast of brightness and darkness in a lecture hall.

The VC-A50P has different interfaces like Ethernet, HDMI, and 3G-SDI. It supports live broadcasting with MJPEG, H.264 supports SVC format and further more its low-latency is less than 120ms. These features not only allow for simultaneous image outputs, they also result in the best image quality and is compatible with all video equipment. The camera covers a wide shooting angle and achieves high-speed, quiet, and precise positioning with smooth PTZ operations.

The VC-A50P is applicable for lecture recording, videoconferencing, and live broadcasting.

SRT | SECURE RELIABLE TRANSPORT

1080p 60fps | 20X Optical zoom | PoE+ | HDMI | 3G SDI

Key Features

- Full HD 1080p signal output format with a high frame rate of 60 fps
- Supports live broadcasting (MJPEG, H.264 supports SVC)
- Supports PoE+ (Power Over Ethernet) using network cables supply power
- Supports ONVIF protocol
- Supports NDI®|HX compatibility for NDI-based video production
- Supports SRT (Secure Reliable Transport) protocol that optimizes streaming performance
- Ethernet low latency (< 120 ms)
- Ethernet, HDMI, and 3G-SDI synchronous image outputs
- Audio input supports AAC encoding with 44.1/48 K sampling frequency
- Free Lumens® VMS software for controlling the cameras remotely

More Details
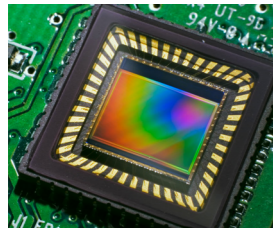
Image Quality

The VC-A50P is equipped with a professional 1/2.8 inch image sensor with Full HD 1080p output resolution. The sensor provides high color reproduction, high-definition signals, and crystal-clear image quality.

Wide Range Pan/Tilt/Zoom Action

120°

340°

The VC-A50P has a wide shooting area (pan angle from -170° to +170° ; tilt angle from -30° to +90°), as well as quiet, fast, and precise positioning movements.
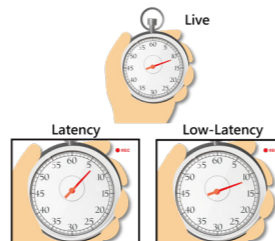
Audio Input Support

The VC-A50P supports stereo audio input and AAC encoding transmission through the Internet, SDI and HDMI to extend the distance of the audio device. Through this transmission, sound quality is enhanced and installation costs are reduced.

RS-232 / RS-422 Remote Control

The camera's settings and PTZ control functions can be performed remotely at any location and at high communication speeds via the RS-232 / RS-422 interface.

Free Camera Control Software

Free Lumens® camera control software for controlling Lumens PTZ cameras and preview function supports 1080p with 60fps video output. Easy to adjust camera pan, tilt, zoom operation, pre-set and image setting.

Supports PoE+ for Easy Installation

Power supplied through the PoE+ (Power over Ethernet) without additional power supply and cables that bring cost-effective and simple installation.

Multiple Signal Interface

The VC-A50P has multiple interfaces like Ethernet, HDMI, and 3G-SDI for simultaneous image outputs.
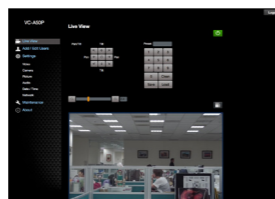
Low-Latency Streaming

The VC-A50P supports MJPEG / H.264 supports SVC video compression format which reduce the bandwidth and it also supports low-latency and the fast response time is less than 120 ms so that allows human-unnoticeable delays between live image and streaming video.

Live

Latency   Low-Latency

Remote image monitoring for IP Control

The built-in web page allow you to use an IP browser to remotely view and control camera using a PC, Mac or mobile devices. IP video can be transmited to up to 5 terminals.

Support an upgrade for NDI®|HX compatibility

NDI|HX

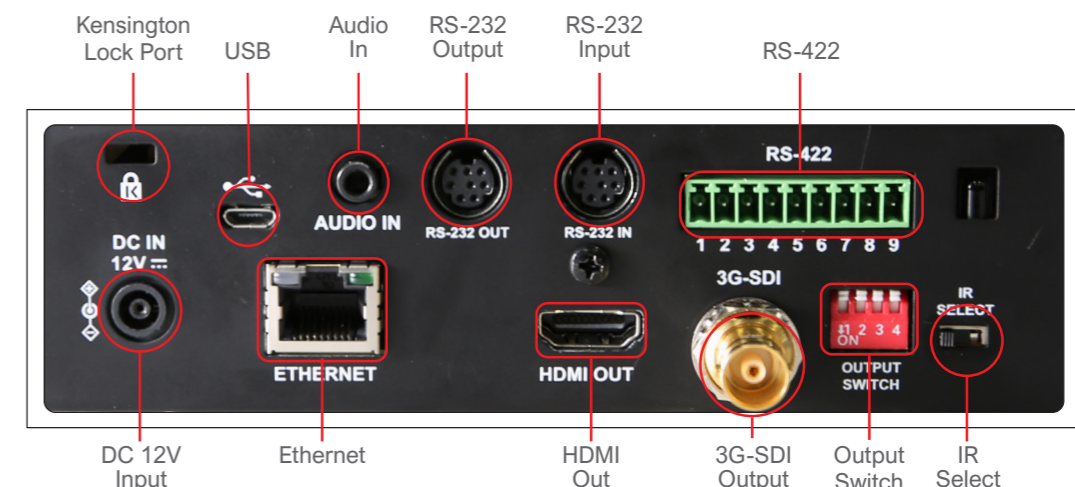VC-A50P can be upgraded to support NDI®|HX technology for NDI-based video production.

IP Streaming Format

Stream		CHANNEL 1		CHANNEL 2
Settings		H.264	MJPEG	H.264 / MJPEG
Resolution		1920x1080	1920x1080	D1
		1280x720	1280x720	
Frame Rate	60 / 59.94 Hz	60 / 30 / 15	30 / 15	30 / 15
	50 Hz	50 / 25	25	25
Bit Rate		20000 kbps~64 kbps	2~97	8000 kbps~64 kbps
Audio Transmission		AAC / G.711		
PoE+		Yes		

Product Specifications

Sensor	1/2.8" 2.41MP CMOS	Exposure Control	Auto / Manual
Video Format	1080p : 60 / 59.94 / 50 / 30 / 29.97 / 25 1080i : 60 / 59.94 / 50 720p : 60 / 59.94 / 50	WDR	Yes
		3D NR	Yes
		Image Flip	Yes
		Preset Positions	128
Video Output (HD) Interface	3G-SDI / HDMI / Ethernet	Control Interface	RS-232 / RS-422 / Ethernet
Optical Zoom	20x	Control Protocol	VISCA / PELCO D / ONVIF
Horizontal Viewing Angle	57°	Tally Light	Yes
Panning Angle	+170° ~ -170°	PoE	PoE+ (IEEE802.3at)
Panning Speed	120°/sec	Video Stream	RTSP / RTMP / MPEG-TS / SRT
Tilting Angle	+90° ~ -30°	Video Compression	MJPEG / H.264 SVC
Tilting Speed	120°/sec	Audio Input	Line In / MIC In
Aperture	F1.6 ~ F3.8	Audio Output	Ethernet / SDI / HDMI
Focal Length	5.33mm~110mm	IR Pass-through	Yes
Shutter Speed	1/1 ~ 1/10,000 sec	IR Receiver	Yes
Minimum Object Distance	1.5m (Wide / Tele)	IR Remote Control	Yes
Video S/N Ratio	> 50dB	Power Consumption	PoE : 17.5W DC In : 16W
Minimum Illumination	1.0 lux (F1.6, 50IRE, 30fps)		
Focus System	Auto / Manual	Weight	4.4 lbs (2 kg)
Gain Control	Auto / Manual	Dimensions	6.9" x 7.3" x 7.3" (174 x 186 x 187 mm)
White Balance	Auto / Manual		

I/O CONNECTIONS

Kensington Lock Port   USB   Audio In   RS-232 Output   RS-232 Input   RS-422

RS-422

AUDIO IN   RS-232 OUT   RS-232 IN   1 2 3 4 5 6 7 8 9

DC IN 12V   3G-SDI   IR SELECT

ETHERNET   HDMI OUT   OUTPUT SWITCH   1 2 3 4 ON

DC 12V Input   Ethernet   HDMI Out   3G-SDI Output   Output Switch   IR Select

Single Camera Connection

Audio In

VC - A50P

HDMI
3G-SDI

To Video Switcher
/ Display

LAN cable

PoE Switch

VS-KB30
IP Controller

PC

Power Supply — Control Signal — Audio / Video Signal

Multi-Camera Connection

Video Signals
Control Signals

VC-A50P

VC-A50P

SDI / HDMI
Video Signal

Switcher

Monitor

Recorder

LAN cable

PoE Switch

LAN cable

VS-KB30
IP Controller

VMS Control
Software

PC

Mar, 2021