



Pentagon
Tech Fusion Services Pvt. Ltd.



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Pentagon PenVC 1600VC 4K PTZ AI Tracking Camera



Features:

4K UHD

The new generation of Sony 1/1.8-inch high-quality UHD CMOS sensor with a maximum of 8.42 million pixels can realize 4K (3840x2160) ultra-high-resolution images. And downward compatible with 1080p, 720p and other resolutions.

AI Tracking

With the help of the AI computing power of the chip, the monocular human shape tracking based on advanced AI algorithm, combined with convenient tracking settings, can be used in a variety of scenes such as education, conference and live broadcast to realize the intelligent guide function.

NDI HX2

NDIHX2 has the characteristics of low delay and plug and play, which is convenient for project implementation and deployment. It has a good ecology and supports the simultaneous transmission of audio, video and control commands. It is a new generation of network video transmission mode.

Low illumination

The new CMOS image sensor with ultra-high sex noise ratio can effectively reduce the image noise under low illumination. The application of 3D noise reduction algorithm can greatly reduce the image noise. Even under ultra-low illumination, the picture remains clean and clear, and the image signal-to-noise ratio is more than 55dB.

Rich and perfect interfaces

Support hdmi2.0 HD output, equipped with 3G-SDI interface, with an effective transmission distance of up to 150m (1080p30). HDMI or 3G-SDI, USB and LAN can output 3 HD digital signals at the same time.

12x & 20x optical zoom

It adopts 4K ultra long focal lens with high quality and 8 million ultra-high resolution, 20 times optical zoom, and the maximum field angle is 60°

Remote control

Multiple control modes, RS232, RS485, network and USB can be used to control the camera.

HDMI2.0

Support hdmi2 0 interface, which can directly output 4K60 uncompressed digital video.

Gravity sensor

It supports the automatic image flipping function, which is convenient for installation and use.

TECHNICAL SPECIFICATION

Parameters/Model.	PenVC 1600VC – 12x	PenVC 1600VC – 20x
Camera		
Video System		4K@60fps, 4K@59.94fps, 4k@50fps 4K@30fps ,4k@25fps, 4k@29.97fps ,1080I@60fps, 1080I@50fps,1080P@30fps, 1080P@25fps,1080I@59.94fps, 1080I@59,94fps, 1080P@29.97fps, 720P@60fps, 720@59.94fps, 720P@50fps
Sensor	1/1.8 inch, CMOS, Max Effective Pixel: 8.42M	
Scanning Mode	Progressive	
Lens	12x, f=6.25mm-125mm, F1.58- F3.9?	20x, f=6.25mm-125mm, F1.58- F3.9?
Digital Zoom		16x
Minimal 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
Video S/N		≥ 55dB
Horizontal Angle of View		60°~3.5°
Vertical Angle of View		35.7° ~ 2.0°

Horizontal Rotation Range	± 162.5°
Vertical Rotation Range	-30° ~+90°
Pan Speed Range	1.8°/s ~80.5°/s
Tilt Speed Range	1.5°/s ~ 49°/s
H & V Flip	Support
Image Freeze	Support
Number of Preset	255
Preset Accuracy	0.1°
Interface/Indicator	
LINE IN Interface	1 x LINE IN: 3.5mm Audio Interface
Communication Interface	1 x RS485: 3pin phoenix port, Max Distance: 1200m, Protocol: VISCA / Pelco-D / Pelco-P
	1 x RS232 OUT: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA network use only
	1 x RS232 IN: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA / Pelco-D / Pelco-P
HDMI Interface	1 x HDMI: Version 2.0
LAN(PoE+) Interface	1 x RJ45: 10/100/1000M, Adaptive Ethernet Port. It supports PoE+
USB Interface	1 x USB 3.0: Type-C
3G-SDI Interface	1 x 3G-SDI: BNC type, 800mVp-p, 750. Along to SMPTE 424M standard
Restore Button	1 x Restore Button
Power Jack	JEITA type (DC IN 12V)
Tally Indicator	1 x Tally Indicator
Power Indicator	1 x Power Indicator
Status Indicator	1 x Status Indicator
Display Screen	1 x Display Screen
Power Switch	1 x Power Switch
Network	
Encode Protocol	H.264/H.265/MJPEG
Video Stream	First Stream, Second Stream
First Stream Resolution	3840x2160, 1920x1080, 1280x720, 1024x576, etc
Video Bit Rate	720x576, 720x480, 320x240, etc.
Video Bit Rate	32Kbps ~ 20480Kbps
Bit Rate Type	Variable bit rate, Fixed bit rate

Frame Rate

50Hz: 1fps ~50fps,
60Hz: 1fps ~60fps

Audio Compression

AAC, G711

Audio Bit Rate

96Kbps, 128Kbps

Support protocols

NDI IHX2, SRT, TCP/IP, HTTP, RTSP,
RTMP(s), Onvif, DHCP, Multicast, Etc.

USB Featured

Video System

Windows 7, Windows 8, Windows 10, Mac OS X, Linux, Android

Color System /
Compression

YUY2 / MJPEG / H.264 / H.265

USB Audio

Support

Video Format

YUY2: max to 1080@30fps

H.264 AVC/SVC: MAX TO 2160P@fps

H.265 SVC: max to 2160 P@30fps

MPEG: max to 2160P@30fps

USB Video Communication
Protocol

UVC 1.1~1.5

UVC PTZ

Support

General Specification

Input Voltage

DC 12V/PoE+ (802.3at)

Input Current

2A (Max)

Operating Temperature

-10°C ~ 40°C (14°F ~ 104°F)

Storage Temperature

-40°C ~ 60°C (-40°F ~ 140°F)

Power Consumption

18W (Max)

Size / Net Weight

200mm x 150mm x 165mm /1.73Kg

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