



Pentagon
Tech Fusion Services Pvt. Ltd.



GeM
Government
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Pentagon PenVC 1800VC

4K UHD Integrated Tracking Camera

PenVC 1800VC is a 4K binocular tracking camera equipped with a 71° 12x optical zoom close-up camera and a 48°/107° panoramic camera, Built-in advanced image recognition and tracking algorithm to achieve a smooth and natural tracking effect without any extra positioning camera or tracking host. Different lens are used to achieve teacher tracking or student tracking.

Features:

+ 4K UHD

Using a 1 / 2.5 inch high-quality UHD CMOS sensor with a maximum of 8.51 million pixels, it can achieve 4K (3840x2160) high-resolution high-quality images. And backward compatible with multiple resolutions such as 1080P, 720P.

+ All-in-One Design

Integrated design, can output panoramic and close-up multi-channels HD video at the same time.

+ 71° Wide-Angle Lens + 12x Optical Zoom

Exclusive custom high-quality true 8 million ultra-high-resolution 4K ultra-wide-angle lens with 12x optical zoom and horizontal field of view up to 71°.

+ Adjustable Viewing Angle

Panorama camera can adjust viewing angle in vertical(-15°~ +15°), so as to convenient for installation and degugging.

+ Intelligent Tracking

Built-in leading image recognition and tracking algorithms, without any auxiliary positioning camera or tracking host, to achieve smooth and natural tracking effect, different cameras are assembled before production, thus realizing tracking requirements in various scenarios.

+ Multiple Interfaces

Support HDMI 1.4b 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.

+ Built-in Microphone

Built-in microphone array, omnidirectional pickup, pickup distance up to 6 meters, unique noise suppression algorithm make perfect speech presentation.



Intelligent Teaching Tracking

Built-in leading image recognition and tracking algorithm, you can achieve smooth and natural tracking without any auxiliary positioning camera or tracking host.

4K UHD

Using 1/2.5-inch high-quality UHD CMOS sensor with effective 8.51 million pixels.

Built-in Microphone

Built in microphone array, omnidirectional pickup, pickup distance up to 6 meters



TECHNICAL SPECIFICATION

Parameters/Model CLOSE-UP CAMERA

PenVC 1800VC

Video System	HDMI: 4K@30fps, 4K@25fps, 4K@29.97fps, 1080P@30fps, 1080P@25fps SDI: 1080P@30fps, 1080P@25fps
Sensor	1/2.5 inch, CMOS, Effective Pixel: 8.51M
Scanning Mode	Progressive
Lens	12x, f=4.4mm ~ 52.8mm, F1.8 ~ F2.6
Digital Zoom	16x
Minimal Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual, Specified color temperature
Backlight Compensation	Support
Digital Noise Reduction	3D Digital Noise Reduction
Video S/N	≥55dB
Horizontal Angle of View	71° ~ 8.2°
Vertical Angle of View	42.7° ~ 4.5°
Horizontal Rotation Range	±170°
Vertical Rotation Range	±30°
Pan Speed Range	1.61° ~ 75.56°/s
Tilt Speed Range	0.44° ~ 15°/s
H & V Flip	Support
Image Freeze	Support
Number of Preset	255
Preset Accuracy	0.1°

PANORAMA CAMERA

Video System	HDMI: 4K@30fps, 4K@25fps, 4K@29.97fps, 1080P@30fps, 1080P@25fps SDI: 1080P@30fps, 1080P@25fps
Sensor	1/2.8", CMOS, Effective Pixel: 8.42M
Scanning Mode	Progressive
Lens Mount	M12 Mount
Lens Type one	f=8mm, H FOV 48° (default, changeable)
Lens Type two	f=1.97mm, H FOV 107° (default, changeable)
Shutter	1/30s ~ 1/10000s
Minimal Illumination	0.5 Lux @ (F1.8, AGC ON)
White Balance	Auto, Indoor, Outdoor, One Push, Manual, Specified color temperature
Digital Noise Reduction	3D Digital Noise Reduction
Backlight Compensation	Support

Image Freeze	Support
H & V Flip	Support
NETWORK FEATURE	
Video Compression	H.264/MJPEG
Video Stream	First Stream, Second Stream
First Stream Resolution	3840x2160, 1920x1080, 1280x720, 1024x576, etc.
Second Stream Resolution	720x480, 720x408, 640x360, 480x320, 320x240
Video Bit Rate	32Kbps ~ 51200Kbps
Bit Rate Type	Variable Rate, Fixed Rate
Frame Rate	50Hz: 1fps ~ 50fps, 60Hz: 1fps ~ 60fps
Audio Compression	AAC、G711A
Audio Bit Rate	48Kbps, 64Kbps, 96Kbps, 128Kbps
Support protocols	TCP/IP, HTTP, RTSP, RTMP/RTMPS, ONVIF, DHCP, SRT, Multicast, etc.

INPUT/OUTPUT INTERFACE

HD Output	1x HDMI: Version 2.0 1x3G-SDI: BNC type, 800mVp-p, 75Ω, Along to SMPTE 424M standard
Network Interface	1xRJ45: 10M/100M/1000M Ethernet Interface, Support PoE+ power supply
Audio Interface	1-ch:Line In ,3.5mm Audio Interface 1xRS232 In: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA/Pelco-D/Pelco-P 1xRS232 Out: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA/Pelco-D/Pelco-P
Communication Interface	1xRS485: 2pin Phoenix Port, Max Distance: 1200m, Protocol: VISCA/Pelco-D/Pelco-P
USB Interface	1x USB 3.0: Type-B socket; 1x USB2.0: Type-A socket
Power Jack	DC-005/Φ2.0 type (DC IN 12V)

USB FEATURED

Video System	Windows XP, Windows Vista, Windows 7, Windows 8, Mac OS X, Linux
Color System / Compression	YUV / H.264 / MJPEG / NV12
USB Audio	Support
Dual Streams, UVC PTZ	Support

Video Format

YUY2 : Max to 1080P@30fps
H.264 AVC: Max to 2160P@30fps
H.264 SVC: Max to 2160P@30fps
MJPEG: Max to 2160P@30fps

USB Video

Communication Protocol

UVC 1.1~1.5

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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