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Pentagon PenVC

Education Intelligent Auto-tracking PTZ Camera

PenVC - 100T Education Intelligent Auto-tracking Camera is a dedicated intelligent auto-tracking camera. PenVC - 100T Camera is built-in with high speed processor, advanced image processing and analysis algorithms to track lecturers and students accurately and quickly, which is in line with the requirements of lecturer capture and remote interactive teaching. PenVC - 100T Education Intelligent Auto-tracking Camera adopts advanced ISP technologies and algorithms, to make a vivid image quality, screen brightness uniformity, strong sense of depth & high definition.

Advantages:

- Integrated design: built-in panoramic camera, to achieve an integrated fusion of panoramic camera and tracking camera.
- Advanced tracking algorithms
- Ultra wide dynamic exposure function
- Strong anti-interference ability:
- Smooth tracking:
- Video image auto adaptation:
- Full-frame image recognition:

Features:

- 1/2.8 inch high quality CMOS sensor. Resolution is up to 1920x1080 with frame rate up to 60 fps.
- Low Noise and High SNR
- Wide-range, Quiet and Quick Pan/Tilt Mechanism
- Multiple Video Compression
- Video Interface: SDI Interface: SDI, LAN, HDMI Interface: HDMI, U3, LAN



Input/Output Interface:



TECHNICAL SPECIFICATION

Parameters/Model	PenVC 100T-12	PenVC 100T-20
Tracking Camera and Lens Parameter		
Sensor	1/2.8-inch-high quality HD CMOS sensor	
Effective Pixels	2.07 megapixel; 16:9	
Video Signals	1080P60/50/30/25/59.94/29.97, 1080I60/50/59.94, 720P60/50/30/25 / 59.94 / 29.97	
Optical Zoom	12x optical zoom f=3.9~46.8mm	20x optical zoom f=5.5~110mm
View Angle	6.3°(tele)~72.5°(wide)	3.3°(tele)~54.7°(wide)
Iris	F1.8 ~ F2.4	F1.6 ~ F3.5
Digital Zoom	X10	
Minimum Illumination	0.5Lux(F1.8, AGC ON)	
Digital Noise Reduction	2D & 3D digital noise reduction	
White Balance	Manual/Auto/One Push/ 3000K/3500K/4000K/4500K/5000K/5500K/6000K/6500K/7000K	
Focus	Auto/Manual/One Push	
Aperture	Auto/Manual	
Electronic Shutter	Auto/Manual	
BLC	ON/OFF	
WDR	OFF/Dynamic Range adjustment	
Video Adjustment	Brightness, Color, Saturation, Contrast, Sharpness, Gamma curve	
SNR	>55dB	
Panoramic Camera		
Sensor	1/2.8-inch-high quality HD CMOS sensor	
Effective Pixels	2.07 megapixel	
Lens	Manual Focus	
Video Interface	SDI Interface: SDI, LAN; HDMI Interface: HDMI,U3,LAN	
4mm Lens View Angle(D/H/V)	89.6°\71°\52.2°	
6mm Lens View Angle(D/H/V)	67.0°\59°\32.5°	
Input/Output Interface and Protocols		
Video Interface	SDI Interface: SDI, LAN, Dual audio channel 3.5mm linear input ,RS232(IN) HDMI U3 Interface:HDMI,U3,LAN, Dual audio channel 3.5mm linear input, RS232(IN)	
Network Interface	100M network interface (10/100BASE-TX) 5G WiFi(optional)	
Network Protocol	RTSP,RTMP,ONVIF,GB/T28181, Network VISCA Control Protocol, Support remote upgrade, reboot and reset.	
Image Code Stream	Dual stream output	

Video Compress Format	H.264,H.265
Control Signal Interface	RS232 Input
Control Protocol	VISCA/Pelco-D/Pelco-P; Baud Rate:115200/9600/4800/2400bps
Audio Input Interface	Dual audio channel 3.5mm linear input
Audio Compression Format	AAC,MP3,PCM
Power Interface	HEC3800 outlet (DC12V)
Pan Tilt Parameter	
Pan Rotation	-170°~+170°
Tilt Rotation	-30°~+90°
Pan Control Speed	0.1 ~100°/s
Tilt Control Speed	0.1~45°/s
Preset Speed	Pan: 100°/s,Tilt:45°/s
Preset Number	User can set up to 255 presets(remoter 10 presets)
Other Parameters	
Supply Adapter	Input AC110V-AC220V to DC12V/2.5A
Input Voltage	Output DC12V±10% POE power supply optional
Input Current	1.5A(Max.)
Consumption	18W(Max.)
Store Temperature	-10°C~+60°C
Store Humidity	20%~95%
Working Temperature	-10°C~+50°C
Working Humidity	20%~80%
Dimension(WxHxW)	253.9mmX179mmX144.7mm
Weight(appr.)	1.54kg
Application	Indoor
Package	Power supply, RS232 control cable, USB3.0 connection cable, Remote controller, User manual
Optional Accessories	Ceiling / Wall Mount (Extra Cost)

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