

HD Communication Camera PV700ESH

Full HD, High-performance 20x 1080P60/50



Product Overview

This PTZ HD color camera is designed for enterprise, education, and telemedicine applications. It features a 20x optical zoom and operates at a high frame rate of 60 FPS. It can capture high-quality color video images in corporate meeting rooms, classrooms, training centers, and medical rooms. Users can connect the camera to HD display devices via HDMI cable and coaxial video cable for viewing.

The camera utilizes advanced servo control algorithms and precision stepper motor drives, enabling precise, smooth, and quiet PTZ control. Its wide-angle lens can easily cover all participants during video conferences. With 255 preset positions, it can quickly and effortlessly reproduce clear images without causing any disruption to speakers or audience.

Equipped with a sensitive SONY EXMOR CMOS image sensor, the camera ensures detailed full HD images with high horizontal resolution. Operating at a maximum of 60 FPS, it can accurately capture moving subjects with natural and clear quality.

For convenient control and viewing, the camera provides HDMI and HD-SDI interfaces, both capable of outputting a frame rate of 60 FPS. It can also automatically receive VISCA commands and PELCO-P/D protocol commands, and users can choose to connect via RS232 or RS485 interfaces.

Product Features

1. Precise, smooth, and quiet servo algorithm PTZ control
2. True FULL HD high-definition image
3. Low noise and high signal-to-noise ratio
4. 20x optical zoom, 12x digital zoom

5. Full HD multi-format video output
6. Remote control via RS-232C/RS485 (optional) (VISCA protocol / Pelco-D / Pelco-P)
7. Multiple address settings
8. 255 preset positions
9. Multi-functional remote control
10. Infrared remote control signal passthrough function
11. Optional camera inversion function
12. OSD with English and Chinese menus

Application Scenarios

Conference Systems, Telemedicine, Remote Education, etc.

Technical Parameter

Model	PV700ESH
Camera and Lens Parameters	
Image Sensor	1/2.8-inch high-quality HD CMOS sensor
Effective Pixels	16:9, 2.1 million effective pixels
Video Formats	1080P60/50/30/25, 1080I/60/50, 720P60/50
Lens Zoom	20x optical zoom, f=4.7~94mm
Field of View	2.9° (narrow angle) - 55.4° (wide angle)
Minimum Illumination	0.1 Lux
White Balance	Auto/Indoor/Outdoor/Manual
Focus	Auto/Manual
Aperture	Auto
Shutter	Auto
Signal-to-Noise Ratio	>52dB
Input/Output Interfaces	
HD Video Interface	HDMI, HD-SDI(3G), IP, optional CVBS
Control Signal Interface	8-pin mini-DIN
Control Signal Format	Start bit: 1 bit, Data bits: 8 bits, Stop bit: 1 bit, Baud Rate: 9600/4800/2400bps
Power Interface	HEC3800 power socket
General Parameters	
Mechanical Performance	Horizontal Rotation: $\pm 170^{\circ}$; Pitch Rotation: -30° to $+210^{\circ}$
	Horizontal Control Speed: 1-100°/second; Pitch Control Speed: 1-60°/second
	Preset Speed: Horizontal: 100°/second, Pitch: 60°/second

	Preset Accuracy: 0.1 °
	Preset Positions: 255 user-settable presets
Pan/Tilt Control Method	Servo motor control
Color	White, Black (optional)
Power Adapter	AC110V-AC220V to DC12V/2A
Input Voltage	DC12V(DC11.5-DC12.5V)
Power Consumption	15W (max)
StorageTemperature	-10°C to +60°C
Operating Temperature	0°C to +45°C
Dimensions (Width X Height X Depth)	155mm X 186mm X 172mm
Weight(Net Weight)	2.5KG (1.3KG)
OperatingEnvironm ent	Indoor
Network Parameters	
Encoding Formats	H.264 Baseline, Main Profile, High profile, H.265 Mainfile, MJPEG
Image Resolution	Main Stream 1920*1080@30fps, 1280*720@30fps; Sub Stream 720*576@30fps, 640*480@30fps
Video Compression Bitrate	Continuous adjustable from 32kbps to 16Mbps, supports CBR/VBR
Overlay Text	Supports channel name, date and time, stream information overlay, adjustable overlay position
Data Storage	Video, image files
Storage Mechanism	Manual, auto(loop, timed, alarm, switch quantity, motion detection)
Supported Protocols	TCP/IP, UDP, RTP, RTSP, RTCP, HTTP, DNS, DDNS, DHCP, FTP, NTP, PPPOE, SMTP, UPNP
ONVIF Protocol	Standard ONVIF protocol
Client Browsing	Supports IE6.0 and above browsers
Mobile Client	Supports IPHONE, IPAD, Android platforms