

AI TRACKING

FHD PTZ CAMERA

Smart Tracking, One Camera Does It All.



Simplify Shooting with AI Tracking in One Camera.

MODEL NO. **EAGLE P12A** | **EAGLE P20A** | **EAGLE P30A**



AI Auto Tracking
PTZ Camera

Talent Position & Shot Selection



12×
20×
30×

Zoom lens Optional



ONVIF VISCA IP VISCA
PELCO-D PELCO-P NDI|HX3
(Optional)

Multiple Control Protocols



HDMI & SDI Output
USB Capture & LAN Streaming



A Variety of Installation



AI Auto Tracking

Supports four intelligent tracking modes: Real-time, Stage Tracking, Area Tracking, and Intelligent View. Automatically follows subjects and adapts to different scenes, ensuring smooth, professional-level framing for live events, lectures, or presentations.



Real-time



Area Tracking



Stage Tracking



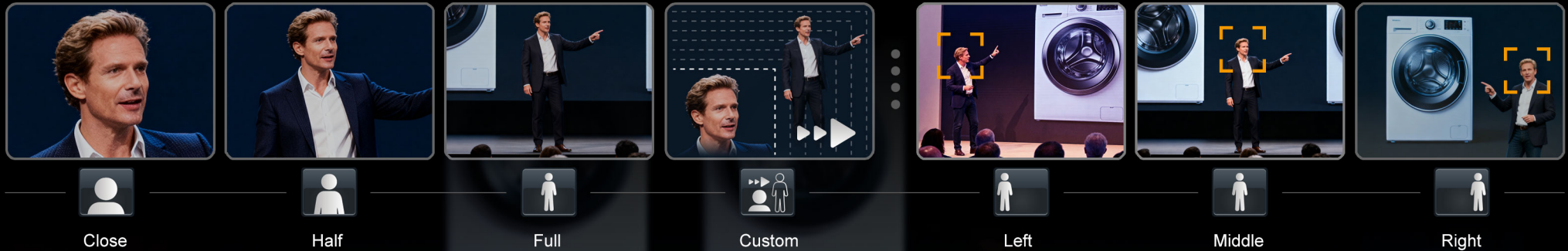
Intelligent View



Quick Subject Framing

Quickly choose the subject position (Left / Middle / Right) and frame size (Close / Half / Full / Custom) , perfect for dynamic shooting and AI tracking scenarios.

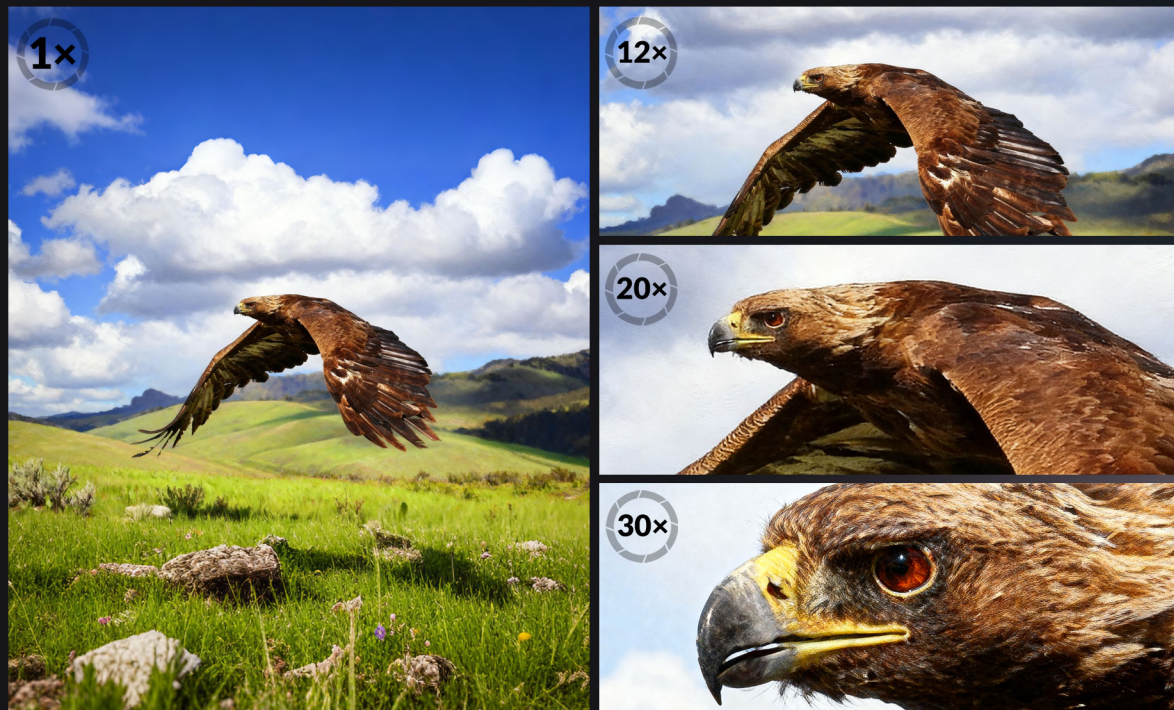
In Real-Time Tracking mode, both position and frame size can be adjusted, while Stage Tracking mode allows adjustment of frame size.



Zoom Lens Optional

Provides 12×/20×/30× optical zoom lens for effective close-up and wide-angle shooting.

Quick pan and tilt speeds and picture controls like brightness, color, saturation, contrast, sharpness provide precision control of your images.



Easily Control

The PTZ camera can be easily controlled by IR remote control, Web UI as well as the joystick camera controller via IP or serial port. Multiple control protocols are supported including ONVIF, VISCA over IP, VISCA, PELCO-D, PELCO-P, NDI|HX3(Optional).

ONVIF

IP VISCA

VISCA

PELCO-D

PELCO-P

NDI|HX3
(Optional)





Threaded DC & PoE Power

Lockable threaded power and POE dual power supply ensure stable and reliable power delivery. Even in dynamic scenarios or frequent movement, the screw-lock DC connector prevents accidental disconnection, guaranteeing continuous power for uninterrupted shooting and live streaming.



Tripod
Mounting

Wall
Mounting

Ceiling
Mounting

A Variety of Installation

Support image flip function, the bottom thread of the camera can be used for mounting suitable for tripod mounting wall mounting, ceiling mounting. Widely used in many applications in broadcasting, education, church and other fields.



CONFERENCE



CONCERT



SPORT LIVE



INTERVIEW

Application Fields

The PTZ camera can be widely used in various field events, such as conference, church, concert, education, interviews, sport live and other live broadcast activities.



HDMI & SDI Dual Outputs

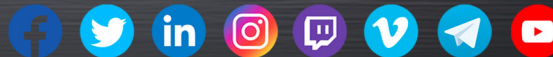
Equipped with dual HDMI and SDI outputs, it supports simultaneous output of signals up to FHD 1080p resolution. Audio signals can be embedded into the SDI/HDMI channels to deliver high-quality video to monitors, switchers, and broadcast systems. This makes it ideal for live streaming, professional production, and multi-screen display applications.



USB Capture & LAN Streaming

Equipped with USB and LAN ports, this PTZ camera supports direct USB capture for video conferencing and computer recording, as well as LAN streaming to platforms via ONVIF/ RTSP/ RTMP/ SRT/ NDI|HX3(Optional).

Flexible, professional, and easy to deploy for any live production.



OBS Studio

zoom



VLC
MEDIA PLAYER



vMix



Teams

PARAMETERS	
Image Sensor	1/2.8 inch high quality HD CMOS sensor
Effective Pixel	2.07M, 16:9
Optical Lens	12X f=4.1~49.2mm20X f=5.1 ~ 94.49mm30X f=5.2 ~ 148.4mm
Viewing Angle	D: 78.36° - 7.50°D: 67.45° - 3.94°D: 65.4° - 2.48°
	H: 70.28° - 6.57°H: 60.04° - 3.45°H: 58.1° - 2.14°
	V: 42.06° - 3.76°V: 35.31° - 1.97°V: 33.8° - 1.2°
Digital Zoom	16 X
Minimum Illumination	0.5Lux (F1.8, AGC ON)
DNR	2D&3D
White Balance	Auto/Manual/One Touch White Balance/Specified Color Temperature (2400K-7100K, adjustable in 100K steps)
Focus	Auto/Manual/One-push
Iris	Auto/Manual
Electronic Shutter	Auto/Manual
BLC(Backlight Compensation)	On/Off
Dynamic Range	Off/ Dynamic level adjustment
Video Adjustment	Brightness, Color, Saturation, Contrast, Sharpness, B/W Mode, Gamma curve
SNR	≥50dB
INTERFACE	
Video output	HDMI, SDI, LAN, USB3.0
Video Format	HDMI/SDI interface video format: 1080P60/59.94/50/30/29.97/25, 1080I60/50/59.94, 720P60/59.94/ 50
	USB3.0:
	YUY2/NV12: 1920*1080/1280*720/1024*576/800*600/800*448/640*480/640*360/480*270/320*180@60/30/25/20/15/10/5fps;
	MJPEG/H264/H265: 1920*1080/1280*720/640*360/640*480/320*240/320*180@60/30/25/20/15/10/5fps
	LAN: Main Stream:
Video Format	H264/H265/MJPEG:
	1920*1080/1280*720/640*480@60/30/25/20/15/10/5fps
	Sub-stream:
	H.264/H.265/MJPEG:
	1280*720/640*360/640*480/320*240/320*180@60/30/25/20/15/10/5fps;
Video compression formats	LAN: H.265, H.264 USB 3.0: MJPG, H264, H.265, YUY2, NV12
Video Bitrate	64-40960
Bitrate Control	Fixed Bitrate, Variable Bitrate
Frequency	50Hz:1fps ~ 50fps 60Hz:1fps ~ 60fps

Audio In Interface	Dual audio channel 3.5mm linear input
Audio Output Interface	HDMI, LAN, USB 3.0, SDI
Audio Bitrate	96Kbps, 128Kbps
Audio Compression Format	AAC, G.711A
Network Interface	100M Ethernet port, optional POE+ IEEE 802.3at power supply, supports audio and video output
Network Protocol	RTSP, RTMP, ONVIF, GB/T28181, SRT, FreeD, NDI HX3/NDI6.0(Optional), IP VISCA, supports remote upgrade, remote reboot, and remote reset
Control Interfaces	RS232-IN, RS232-OUT, RS485
Serial Communication Protocol	VISCA/Pelco-D/Pelco-P; Supports baud rates of 115200/38400/9600/4800/2400
USB Communication Protocol	UVC (Video Communication Protocol) UAC (Audio Communication Protocol)
Power Interface	HEC3800 power socket (DC12V)
Power Adapter	Input:AC110V-AC220V Output:DC12V/1.5A
Input Voltage	DC12V±10%
Input Current	≤1.2A
Power Consumption	≤13.8W

PTZ	
Pan	-170°~+170°
Tilt	-30°~+90°
Pan Speed	0.1 ~ 100°/s
Tilt Speed	0.1 ~ 45°/s
Preset Speed	Pan: 100°/s, Tilt: 45°/s
Preset Quantity	User can set 255 presets (10 via IR remote control)

MONOCULAR TRACKING	
Tracking Modes	Off, Real-time Tracking, Stage Tracking, Area Tracking, and Intelligent Framing
Tracking Distance	Maximum tracking distance up to 18 meters

OTHERS	
Storage Temperature	-10℃~ +70℃
Storage Humidity	20% ~ 95%
Working Temperature	-10℃~+50℃
Working Humidity	20% ~ 80%
Dimension	170×170×180mm
Weight	1.26kg
Environment	Indoors



Accessories



12V 2A Power Adapter



USB3.0 A-A Cable



RS232 Serial Cable



RS485 PIN Connector



Remote Control