



Professional PTZ Camera

DX12i

4K60 AI-Tracking PTZ Camera · 12× Optical Zoom

**4K detail with a wide view,
tracked automatically.**



4K60

Ultra HD output

12×

Optical zoom

81°

Horizontal field
of view (wide end)

AI

Presenter tracking

DX12i is a CAVE 4K PTZ camera with a 1/1.8" low-light CMOS sensor and 12× optical zoom. It adds VIP tracking, AI presenter tracking and zone tracking, and offers HDMI 2.0, 3G-SDI, USB 3.0 Type-C and IP outputs. PoE+ keeps installation to a single cable.

1

4K60 Output

A 1/1.8" low-light CMOS sensor outputs up to 4K at 60 fps over HDMI 2.0 or 3G-SDI, with backlight compensation and 2D & 3D digital noise reduction.

2

12× Zoom, 81° Wide View

81° horizontal field of view at the wide end (92° diagonal) covers the room; zoom to 12× (f = 3.4–41.7 mm, F1.8–F3.8) for close-ups.

3

Flexible Auto Tracking

VIP tracking, AI presenter tracking (full body, half body, close-up) and zone tracking keep the right person in frame.

4

HDMI, 3G-SDI, USB-C, IP

HDMI 2.0, 3G-SDI, USB 3.0 Type-C (UVC 1.5) for video conferencing, and H.265 / H.264 / MJPEG streaming over RTSP, RTMP and ONVIF.

5

Control and Presets

VISCA / Pelco-D / Pelco-P, VISCA over IP, ONVIF and UVC control, with 255 presets at 0.1° accuracy and automatic vertical flip (built-in G-sensor).

6

Built-in Mics, PoE+

Two built-in microphones plus Line In. PoE+ (802.3at) powers the camera over a single network cable.



Specifications



Item Specification		
Camera	Video System	4KP (3840×2160) @60/59.94/50/30/29.97/25fps, 1080P@60/59.94/50/30/29.97/25fps, 1080i@60/59.94/50fps, 720P@60/59.94/50fps
	Image Sensor	1/1.8" low-light CMOS
	Lens	12× optical zoom, 16× digital zoom, f = 3.4–41.7 mm, F1.8–F3.8; FOV (wide to tele): horizontal 81°–7.5°, vertical 50°–4.9°, diagonal 92°–10.5°
	S/N Ratio, Min. Illumination	55 dB; 0.5 Lux (F1.8, AGC ON)
	Image Processing	Autofocus; white balance (Auto, Indoor, Outdoor, One Push, Manual); backlight compensation; 2D & 3D digital noise reduction; flip and mirror
	Auto Tracking	VIP tracking; AI auto tracking (full body, half body, close-up); zone tracking
	Pan / Tilt	Pan ±170°, 1.7°–100°/s; tilt –30° to +90°, 1.7°–69.9°/s; auto vertical flip (built-in G-sensor)
	Presets	255, accuracy 0.1°
	Control Protocol	VISCA / Pelco-D / Pelco-P (RS-232 / RS-485), VISCA over IP (RJ-45), ONVIF (RJ-45), UVC (USB)
USB	Operating System	Windows® 7 (1080P or lower), Windows 8.1, Windows 10 or later; macOS™ 10.10 or later; Google™ Chromebook™ 29.0.1547.70 or later
	Color System / Compression	YUY2 (up to 1080P30); H.264 (AVC/SVC) / MJPEG / H.265 (up to 2160P30)
	USB Video Protocol	UVC 1.5, PTZ control
IP Camera	Video Compression	H.265 / H.264 / MJPEG
	Video Bit Rate	32–20480 kbps, variable and fixed rate
	Audio Compression	AAC, 48 / 64 / 96 / 128 kbps
	Protocols	TCP/IP, HTTP, HTTPS, RTSP, RTMP, ONVIF, Multicast
Interface	Video Output	1 × HDMI (2.0); 1 × 3G-SDI (BNC)
	Audio	1 × Line In (3.5 mm); 2 × built-in microphones
	Network	1 × RJ-45 Ethernet, 10/100/1000 Mbps; PoE
	USB	1 × USB 3.0 (Type-C)
	Control	1 × RS-232 In (8-pin mini-DIN); 1 × RS-232 Out (8-pin mini-DIN); 1 × RS-485 (2-pin Phoenix)
	Power Jack	JEITA type (DC IN 12V)
General	Input Voltage	DC 12V / PoE (802.3at)
	Power Consumption	12 W (max)
	Temperature	Operating –10°C–40°C; storage –40°C–60°C
	Dimensions (W×D×H)	223 × 154.8 × 165 mm
	Weight	1.8 kg
	In the Box	Camera, power adapter, remote control, RS-232 cable, quick start guide, warranty card