APT AV

Ultimate performance. Quality. Versatility

UHD430
4K Ultra HD PTZ Camera Series

NDI® 4K ULTRA HD PTZ Control

Ultimate performance and control

Based on a high-performance Ultra HD 4K camera system, the UHD430 series combines exceptional resolution, image quality and performance within a robust and stylish camera unit.

The UHD430 range has been designed to meet the most exacting professional demands. The ability to choose zoom lens magnifications, connectivity and network protocol options enable precise matching of specifications to project and system demands.

The combination of durability, image quality and compatibility make it a highly versatile camera that will provide reliable performance in any application where fixed or remotely controlled camera positions are preferred.

Value for money is a stand-out strength, making the UHD430 range suitable for a range of budgets where high-quality video capture is required.

Superb UHD Image Resolution

A high-performance Sony CMOS image sensor allows the UHD430 range to output image streams at 4K resolution at 60 frames per second. Images exhibit exceptional detail and depth of colour.

Low-noise colourful images

The state-of-the-art CMOS image sensor combines with APT AV advanced image processing to deliver low-noise colourful images. Advanced 2D/3D noise reduction technology is also used to further reduce image noise while providing natural levels of image sharpness.

Extensive lens choice

The high-performance zoom lens options ensures outstanding image quality, making the UHD430 series suitable for many framing requirements and project budgets.

- 12X Ultra-wide
- 25X
- 31X

Advanced autofocus technology

The advanced autofocus algorithm provides sharp and stable images. AF is fast and accurate with an absence of hunting.

Near-silent PTZ operation

The step-drive motor mechanism and high-precision drive motor control results in smooth and virtually silent PTZ operation.

AI-powered Auto Tracking Technology

Advanced auto tracking enables natural subject tracking. Using Zone Tracking enables subjects to be tracked only within preset zones, while Presenter Tracking enables framing to be automatically adjusted by the zoom lens.

Multiple Framing Presets

Up to 255 image framing positions can be preset.

Connectivity: Your choice made easy

The UHD430 range provides source compatibility with HDMI, SDI, USB, and Ethernet. The range of available connectivity sources enables fast and efficient device setup compatible with almost limitless video streaming, recording and network configurations.

Outputs can be used in various configurations, maximising the choice, flexibility and range of live streaming and recording options with the capability to control all camera functions remotely.

Built-in streaming protocols

The UHD430 range supports a broad range of network streaming protocols, including RTMP and SRT, plus the option of an NDI version.

Advanced network streaming protocols ensure pristine quality and low-latency live video over networks and the internet.

USB 3.0 supports dual code streams

USB 3.0 supports main and sub-code stream outputs simultaneously. There's support for YUY2, MJPEG, H.264, NV12, H.265 video encoding formats.

Multiple control protocols

Remote camera function control is available with VISCA, PELCO-D, and PELCO-P protocols. Support for auto-identification protocols is available.

NDI Option

The NDI version of the UHD430 series models unlock additional quality, flexibility and control over Ethernet.

NDI is designed to ultimately replace specific wired connections and transmission, such as HDMI and SDI, making NDI a future-proof choice for larger-scale camera installations.

NDI-encoded video enables multiple broadcast-level quality signals to be transmitted and received over an IP network in real-time. The transmitted information features low latency, precise frame rates, and mutual identification data streams. NDI makes simple and efficient video transmission over IP a reality. Power over Ethernet (PoE) is also available.

Multi-channel transmission means each NDI signal source can be used as multiple receiving end targets. The NDI data stream is sent by multiple cameras, increasing the number of signal sources used for on-site production switching. Each camera is processed in real-time, making editing and producing live video footage more efficient and streamlined than traditional camera systems.

Specifications

Model	UHD430 12X Ultra-wide	UHD430 25X	UHD430 31X
Model Options			
NDI Option	Available		
Camera			
Optical zoom lens	12X Ultra Wide 3.9 - 46.1mm f3.6-5.2	25X 7.1 - 172.0mm f/1.6-5.2	31X 6.9 - 214.6mm f1.6-5.2
Minimum aperture	f/11, Closed		
Angle of view (horizontal)	7.6°(tele) 80.4°(wide)	2.5°(tele) 59.2°(wide)	2.0°(tele) 59.0°(wide)
Sensor	1/2.5 inch 8.51 Megapixel Sony CMOS sensor		
Aspect ratio	16:9		
Minimum illumination	0.5Lux (F1.8, AGC ON)		
Video format	**HDMI** 3840 P60/50/25/59.94/29.97, 1080P 60/50/25/59.94/29.97, 720P60/50, 1080I 60/50/25/59.94, 1080P@30FPS, 720P@60FPS, 720P@50FPS, 720 P60/50.59.94 **SDI** 1080 P60/50/25/59.94/29.97, 1080I 60/50/59.94, 1080P@30FPS, 720P@60FPS, 720P@50FPS, 720 P60/50.59.94 **USB2.0** MJPG: 1920x1080 /1600x896 /1280x720 /1024x576 /960x540 /800x600 /800x448 /720x576 /720x480 /640x480 /640x360 /480x270 /352x288 /320x240 P60/50/30/25, 3840 P30 H.264: 1920x1080 /1600x896 /1280x720 /1024x576 /960x540/800x600 /800x448/720x576 /720x480/ 640x480 / 640x360 /480x270 /352x288/ 320x240 P60/50/30/25, 3840*2160P30 YUY2/NV12: 640*480 /640*360 /480*270 /320*180P30/25		
Digital noise reduction	3D DNR		
Signal to noise ratio	≥50dB		
White balance	Auto /Manual/ One Push/ Specify colour temperature		
Focus/Aperture/ Electronic Shutter	Auto/Manual/One Push		
Exposure Modes	Auto/Manual/Shutter priority/Aperture priority/Brightness priority		

Camera (continued)	
Shutter speeds	1/25~1/10000
Back Light Control	Yes – on/off
Dynamic level adjustment	Yes – on/off
Video adjustments	Brightness, Colour, Saturation, Contrast, Sharpness, B/W mode, Gamma curve
Input/Output Interface	
Video interfaces	HDMI, SDI, LAN (Supports POE), USB2.0, A-IN, RS232-IN, RS232-OUT, RS422 (Compatible with RS 485), Rotary DIP switch, DC12V Power Supply, Power Switch
Video Compression Format	LAN Interface: H.265, H.264, USB3.0 Interface: MPEG, H.264, YUYY2, NV12
Audio Input Interface	2-track 3.5mm linear input
Audio Output Interface	HDMI, SDI, LAN, USB2.0
Audio Compression Format	AAC, MP3, G711A
Network interface	10M/100M/1000M adaptive Ethernet port, supports PoE power supply, support audio and video output
Network Protocols	RTSP, RTMP, ONVIF, GB/T28181, Network VISCA control protocol Supports remote upgrade, reboot and reset
Control Interface	RS232-IN, RS232-OUT, RS422 (compatible with RS485)
Serial communication protocol	VISCA/Pelco-D/Pelco-P, Baud Rate: 115200/38400/9600/4800/2400bps
USB communication protocol	UVC (Video), UAC (Audio)
Power Interface	HEC3800 outlet (DC12V)
Power supply adapter	AC110V~AC220V to DC12V/2.5A
Input voltage	DC12V ±10%
Input current	<1A
Power Consumption	<12W
PTZ	
Pan Rotation	-110˚ - +110˚
Tilt Rotation	-30˚ - +30˚
Pan control speed	0.1˚/s - 100˚/s
Tilt control speed	0.1˚/s - 70˚/s
Preset speed	Pan: 78.8˚/s, Tilt: 31.7˚/s
Present number	255 presets (10 via remote control)

Other	
Storage Temperature	-10℃~+60℃
Storage Humidity	20%~95%
Working Temperature	-10℃~+50℃
Working Humidity	20%~80%
Dimensions	220mm (w) x 144mm (d) x 159mm (h)
Weight	1.7 Kg
Supplied accessories	Power Supply, RS232 control cable, USB2.0 cable (U3), IR Remote Controller, User Manual
Optional accessories	Ceiling / Wall Mount (Extra Cost)

APT AV