

PTZ 35X HD

Professional UHD/HD/SD Broadcast and Conference Camera



There are many situations that require video capture, but where sending in a camera operator is not feasible. When you need a small and unobtrusive camera that you can “set and forget,” the Grass Valley pan-tilt-zoom camera provides a versatile and affordable way to capture images in situations that are not suited to larger cameras, with the image quality you expect from a Grass Valley camera.

Operating the camera is simple. The PTZ 35X HD reduces production complexity with remote control from any of Grass Valley’s Kula switchers or automated as a part of GV Pace pre-set scenes. Images from the PTZ 35X can be intermixed with images from Grass Valley’s LDX cameras without the audience seeing noticeable shifts in image quality.

KEY FEATURES

- Adopts the most advanced Image Signal Processing, with a 1/1.7-in. 12.4 MP sensor, providing 3840x2160p30 Ultra HD video resolution
- 4K wide angle optical lens: 35x optical zoom and 2x digital zoom, with a wide 60.5° horizontal angle of view
- 4K video over IP, H.264, H.265 encoding
- Supports NDI v4.0 video transmission and control
- NDIHX, HDMI, 3G-SDI, USB outputs, fit for different application, 4K video streaming over NDIHX and HDMI
- White balance, exposure, focus, iris can be adjusted automatically or manually
- Supports PoE: one single CAT5/6 to get video, control and power supply
- Special focusing algorithm: fast and precise focusing performance when zooming or moving
- Smooth PTZ mechanical design, accurate pan tilt motor control
- 128 presets supported — exposure parameter and white balance parameter can be saved in presets (in manual mode)
- Standard Sony VISCA, IP VISCA, PELCO-P, PELCO-D control protocol; IP VISCA over both TCP and UDP
- Daisy chain supported, max. 7 cameras connected in VISCA protocol
- Image flip function, supports upside-down installation
- Fast video format switch: less than 3 seconds
- Supported field upgrade for ISP, ARM, FPGA and USB
- USB 3.0 port compatible with USB 2.0 output
- Supports RS-232/RS-485/UVC control

SPECIFICATIONS

Video Formats

HDMI (v1.4)

3840x2160p30/25
1920x1080p60/50/30/25/59.94/29.97/24
1920x1080i60/50/59.94
1280x720p60/50/30/25/59.94/29.97

SDI

1920x1080p60/50/30/25/59.94/29.97/24
1920x1080i60/50/59.94
1280x720p60/50/30/25/59.94/29.97

USB

1920x1080p60/50/30/25 (USB 3.0)
1280x720p60/50/30 (USB 3.0)
1280x720p25 (USB 3.0 & USB 2.0)
1024x576p30 (USB 3.0 & USB 2.0)
960x540p30 (USB 2.0)
640x360p30 (USB 2.0)
512x288p30 (USB 2.0)

IP

3840x2160 @1~30 / 1920x1080 @1~30 (main stream)
1280x720 @1~30 / 1027x576 @1~30 / 640x360 @1~30
(sub stream)

NDI

3840x2160 @15~30
1920x1080 @15~30
1280x720 @15~30
1027x576 @15~30
640x360 @30 (low bandwidth mode)

Video Interface

HDMI (v1.4), SDI, NDIHX, USB3.0, USB2.0

Sensor

1/1.7-in. 12.4 MP CMOS sensor

Zoom

f5.8~20 3 mm (35X), f1.5 – 4.8

View angle: 60° (far) – 2.02° (near)

Rotation Angle

Pan: -170° ~ +170°

Tilt: -30° ~ +90°

Rotation Speed

Pan: 0°~120°/s

Tilt: 0°~80°/s

Preset

Remote controller: 10

RS-232: 128

Accuracy: 0.1°

Control Port

RS-232, RS-485, NDIHX (VISCA over IP), USB 3.0 (UVC1.5), USB 2.0 (UVC1.1)

Network Speed

1000 Mb/s

Video Encode

H.264/H.265

Bit Rate Control

Variable bit rate, constant bit rate

Video Bit Rate

1024 kb/s ~ 20480 kb/s

Supported Protocol

TCP/IP, HTTP, RTSP, DHCP, RTMP, ONVIF (v2.4), NDI (v4.0)
VISCA over IP (TCP & UDP), HTML5, VISCA, PELCO P/D

PoE

Supported, PoE+(IEEE 802.3at)

Daisy Chain

Support RS-232 serial daisy chain

Minimum Lux

0.1 lux

White Balance

Auto/indoor/outdoor/manual/push/sodium lamp auto/sodium lamp

Exposure

Auto/manual/bright/shutter/iris

Focus

Auto/manual

Iris

Auto/manual

Electric Shutter

Auto/manual

Gamma

Supported

WDR

Supported

BLC

Supported

2D Noise Reduction

Supported

3D Noise Reduction

Supported

Anti-Flicker

OFF/50 Hz/60 Hz

Pan Tilt Flip

Supported

Input Voltage

DC12V/PoE (IEEE802.3af)

ORDERING

1-0660111-0001

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