OTTICA-30x

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OTTICA™ NDI®|HX PTZ Video Camera 30x Optical Zoom POE 1080/60p

Overview

The OTTICA™ PTZ Video Camera from Ikan features a 1/2.8" CMOS sensor and 4.3-129mm varifocal lens with 30x zoom to capture videos at a maximum resolution of 1080p at 60fps. It supports POE (802.3af), HDMI, 3G-SDI, Ethernet (NDI|HX), RS-232, RS-485, and audio-in connectivity. The camera uses a step drive motor mechanism and motor drive controller for smooth and noiseless PTZ operation. In addition, it supports H.264/H.265 video compression and AAC, MP3, and G.711A audio compression formats.

Special Features

- NDI®|HX 2 Compatibility with POE (Power Over Ethernet)
- NDI®|HX License **INCLUDED**
- 1/2.8" CMOS Sensor
- 1080/60P Resolution/Frame Rate
- Fast, Stable, & Accurate Auto-focus
- Silent PTZ Motor Mechanism
- 4.3-129mm Varifocal Lens with 30x Zoom
- HDMI, SDI, Ethernet, RS-232, RS-485, & Audio-in Connectivity
- 2D/3D Noise Reduction

What's Included

1 x OTTICA PTZ Camera	1 x Wall Mounting Bracket
1 x Lens Cap	1 x Mounting Screws
1 x Power Adapter	1 x RS485 Connector
1 x RS232 Cable	1 x Cascade Cable
1 x IR Remote Controller	1 x User Manual

Camera Performance

Advanced ISP processing algorithms provide vivid images with a strong sense of depth, high resolution, and fantastic color rendition. The OTTICA-30x supports H.265/H.264 encoding which makes motion video fluent and clear even with less than ideal bandwidth conditions. A full-bandwidth NDI 1080p x60 fps video data stream uses approximately 100Mbps, whereas a video data stream using NDI|HX will only require around 10Mbps (approximately 1/10th of full-bandwidth NDI). Using NDI|HX will expand the camera's compatibility with different types of network options.

NDI®|HX 2

NDI®|HX 2 offers the ability to send power, video feed, tally, and camera control over a single Ethernet cable. This allows users to access & control the multiple camera feeds from any location that has access to the network. NDI|HX® also offers a superior IP video quality with lower bandwidth requirements, and a more stable connection that will reduce the chance of experiencing network disruptions.

Supports Various Control Protocols

VISCA, IP VISCA, PELCO-D, PELCO-P, ONVIF protocols are supported and can also be automatically recognized right out of the box. The OTTICA-30x can be directly controlled from either within software like OBS, using NDI|HX, or from the Web Client using the camera IP address in a browser tab.

Low Noise & High SNR

The Low Noise CMOS effectively ensures the camera's high SNR. Advanced 2D/3D noise reduction technology is also used to further reduce the noise while ensuring image sharpness.

Superb High-Definition Image

The OTTICA-30x employs 1/2.8 inch high-quality CMOS sensor and supports resolutions up to 1920×1080 with frame rates up to 60 fps. Supported outputs include HDMI,3G-SDI, wired LAN (NDI|HX), and wireless LAN interfaces. The 3G-SDI will work up to 100 meters in distance with transmission at 1080p60 format.

Inputs & Output Connectors

LAN (NDI | HX), HDMI, 3G-SDI, Audio-in, RS232 (In&Out), RS485

Specifications

Aperture	F1.6 – F4.7	Noise Db	SNR >55dB
Aspect Ratio	16:9	Optical Zoom	30x f=4.3-129mm
Audio Compression Format	AAC/MP3/G.711A	Output Interface	HDMI, 3G-SDI, LAN (NDI|HX), USB3.0, USB2.0
Audio Input Interface	A-IN: Double Track 3.5mm Linear Input	Output Video Format	LAN (NDI|HX), HDMI, 3G-SDI, 1080p60, H.264, H.265
Audio Output	Yes	Output Voltage	DC12V
Auxiliary Power	Yes	Outputs	RS-232, RS485, 3G-SDI, HDMI, NDI|HX
Base Connection Type	1/4"-20 Screw Mount	Pan Control Speed	0.1 -60°/sec
BLC	ON/OFF	Pan Rotation	±170°
Brand	Ikan	Port Network	RJ45
Body Color	Black	Power Adapter	Input: AC110V-AC220V. Output: DC12V/1.5A
Color Temperature	2400K - 7100K	Power Consumption	12W (Max) / CONTROLLER: 0.6 W (Max)
Communication BPS	2400bps, 4800bps, 9600bps, 19200bps, 38400bps, 115200bps	Power Interface	HEC3800 Outlet (DC12V), 2-pin Waterproof Aerial Socket (RF Model)
Control Interface	RS232 (input & output), RS485	Power Supply	DC12V±10%
Control Protocol	IP VISCA, VISCA, PELCO-D, PELCO-P, ONVIF; Baud Rate:115200/9600/4800/2400bps	Preset Number	255 presets (10 presets by Remote Controller)
Country of Origin	China	Preset Speed	Pan: 60°/sec, Tilt: 30°/sec
Data Output Interface	Protocol Network: ONVIF, VISCA	Remote Control	IR Remote Included
Digital Resolution	1920x1080p	Resolution	1080p 60fps
DNR	2D & 3D DNR	Sensor	1/2.8 inch HD CMOS sensor
Effective Pixels	16: 9, 2.07 megapixel	Serial Port	RS422, RS232
Focusing	Auto, Manual, One Push Focus	Storage Temperature	-10°C~+60°C	14°F~140°F
Input Audio Format	1/8"	Storage Humidity	20%~95%
Input Current	1A (Maximum)	Tilt Control Speed	0.1-30°/sec
Input Voltage	DC12V±10%	Tilt Rotation	30°~+90°
Inputs	1/8" Audio, RS-232 Cascade, DC12V	UPC Code	847983034277
Interface	3G-SDI, HDMI, LAN(NDI), RS232 (In & Out), RS485, A-IN	Video Compression Format	H.264, H.265
Modulation Mode	OFDM	Viewing Angle	2.34° - 65.1°
Motor Type	Step-Driving Motor Mechanism	Voltage	DC12V
Network Protocol	RTSP, RTMP, ONVIF, NDI|HX (Optional), Network VISCA Control Protocol, Support Remote Upgrade, Reboot and Reset	White Balance	Auto / Manual/ One Push/2400K - 7100K
		Working Humidity:	20%~80%
		Working Temperature	-10°C~+50°C	14°F~122°F

Full User Manual