OTTICA™ NDI®|HX 2 PTZ Video Camera 20x Optical Zoom POE 1080/60p

Overview

The OTTICA™ PTZ Video Camera from Ikan features a 1/2.8" CMOS sensor and 5.5-110mm varifocal lens with 20x zoom to capture videos at a maximum resolution of 1080p at 60fps. It supports POE (802.3af), HDMI, 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)
- 1/2.8" CMOS Sensor
- 1080/60P Resolution/Frame Rate
- Fast, Stable, & Accurate Auto-focus
- Silent PTZ Motor Mechanism
- 5.5-110mm Varifocal Lens with 20x Zoom
- HDMI, SDI, Ethernet, RS-232, RS-485, & Audio-in Connectivity
- 2D/3D Noise Reduction
- Purchase of Additional NDI HX License NOT Required

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

The OTTICA 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.

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.

20x Optical Zoom Lens

The camera includes a 5.5-110mm f/1.6-3.5 lens with a viewing angle ranging from 3.3° to 54.7° and offers 20x optical zoom.

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 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.

Ethernet Connectivity

The OTTICA 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 only uses around 10Mbps (approximately 1/10th of full bandwidth NDI), which is a significant reduction in bandwidth required for sending the video data stream through the network.

Inputs & Output Connectors

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

Specifications

Aperture	F1.6 – F3.5		Output Interface	HDMI, 3G-SDI, LAN (NDIIHX), USB3.0, USB2.0
Aspect Ratio	16:9		Output Video Format	LAN (NDIIHX), HDMI, 3G-SDI, 1080p60, H.264, H.265
Audio Compression Format	AAC/MP3/G.711A		Output Voltage	DC12V
Audio Input Interface	A-IN: Double Track 3.5mm Linear Input		Outputs	RS-232, RS485, 3G-SDI, HDMI, NDIIHX
Audio Output	Yes		Pan Control Speed	0.1 -60°/sec
Auxiliary Power	Yes		Pan Rotation	±170°
Base Connection Type	1/4"-20 Screw Mount		Port Network	RJ45
BLC	ON/OFF		Power Adapter	Input: AC110V-AC220V. Output: DC12V/1.5A
Brand	Ikan		Power Consumption	12W (Max) / CONTROLLER: 0.6 W (Max)
Color Temperature	2400K - 7100K		Power Interface	HEC3800 Outlet (DC12V), 2-pin Waterproof Aerial Socket (RF Model)
Communication BPS	2400bps, 4800bps, 9600bps, 19200bps, 38400bps, 115200bps		Power Supply	DC12V±10%
Control	IR Remote Controller, PELCO-D Protocol, PELCO-P Protocol, VISCA Protocol		Preset Number	255 presets (10 presets by Remote Controller)
Control Interface	RS232 (input & output), RS485		Preset Speed	Pan: 60°/sec, Tilt: 30°/sec
Control Protocol:	IP VISCA, VISCA, PELCO-D, PELCO-P, ONVIF; Baud Rate:115200/9600/4800/2400bps		Remote Control	IR Remote Included
Country of Origin	China		Resolution	1080p 60fps
Data Output Interface	Protocol Network: ONVIF, VISCA		Sensor	1/2.8 inch HD CMOS sensor
Digital Resolution	1920x1080p		Serial Port	RS422, RS232
DNR	2D & 3D DNR		Storage Temperature	-10°C~+60°C
Effective Pixels	16: 9, 2.07 megapixel		Storage Humidity	20%~95%
Focusing	Auto, Manual, One Push Focus		Tilt Control Speed	0.1-30°/sec
Input Audio Format	1/8"		Tilt Rotation	30°~+90°
Input Current	1A (Maximum)		Transmission Distance	≤300m (Outdoor without blocking), ≤150m (Indoor without blocking)
Input Voltage	DC12V±10%		Transmission Power	17dBm
Inputs	1/8" Audio, RS-232 Cascade, DC12V		UPC Code	847983031610
Interface	3G-SDI, HDMI, LAN(NDI), RS232 (In & Out), RS485, A-IN		Video Adjustment	Brightness, Color, Saturation, Contrast, Sharpness, B/W Mode, Gamma Curve
Modulation Mode	OFDM		Video Compression Format	H.264, H.265
Motor Type	Step-Driving Motor Mechanism		Viewing Angle	3.3° - 54.7°
Network Protocol	RTSP, RTMP, ONVIF, NDIIHX (Optional), Network VISCA Control Protocol, Support Remote Upgrade, Reboot and Reset		Voltage	DC12V
Noise Db	SNR >55dB		White Balance	Auto / Manual/ One Push/3000K/3500K/4000K/4500K/5000K/5500K/6000K/6500K/7000K
Optical Zoom	20x f=5.5-110mm		Working Humidity:	20%~80%
			Working Temperature	-10°C~+50°C

Full User Manual