



cool technology for PRODUCTION • PLAYBACK • STREAMING



3n1™ HD Video Camera 20x/30x PTZ + PanoramaCam + Tracking

This ultra-high quality camera integrates a 20x PTZ camera and a wide-angle panoramic camera, generating two independent HD-SDI outputs, as well as network streaming capability. As an added bonus, it also supports video tracking for presentations, lectures, houses of worship and similar venues. It's bundled with RUSHWORKS powerfully unique camera control software to deliver the best production bang for the buck in the industry.

Key Features

- **Superb High-Definition Image**

The **3N1** uses a 1/2.8 inch high-quality CMOS sensor, with resolution up to 1920x1080, and frame rate up to 60 fps.

- **Advanced Focusing Technology**

The leading-edge auto-focusing algorithm is fast and consistently accurate.

- **Low Noise and High SNR**

The Low Noise CMOS ensures high SNR (Signal to Noise Ratio) of the camera video. Advanced 2D/3D noise reduction technology is used to further reduce the noise, while enhancing image sharpness.

- **Audio Input Interface**

The camera supports 16K, 32K, 44.1K, 48KHz sampling frequency and AAC, MP3, and PCM audio coding.

- **Wide-range, Fast and Quiet Pan/Tilt Mechanism**

The camera uses high resolution micro-stepper motors, so it's fast and quiet, ideal for any production environment.

- **Multiple Video Compression**

It supports H.264/H.264+ video compression, with resolution up to 1920x1080 and frame rates up to 60 fps, with two channels of 1920x1080p video with 30 fps compression.

- **Multiple Network Protocol**

ONVIF, RTSP and RTMP protocols are supported, as well as RTMP push mode.

- **Low-power Sleep Function**

There is a low-power sleep/wake up mode that can be active when power consumption is lower than 400mW.

Tracking

- **Advanced Tracking Algorithms**

The camera uses an advanced human detection and image processing algorithm for accurate tracking.

- **Anti-Interference Rejection**

Once the target is acquired, maintaining a lock on the image is possible using masking and other techniques.

- **Sensitivity and Movement Accommodation**

Based on the distance to the target, the camera will automatically zoom to maintain target framing.

www.RUSHWORKS.tv

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Technical Specifications

PTZ CAMERA	
Sensor	1/2.8 inch high quality HD CMOS sensor
Effective Pixels	2.07 megapixel; 16:9
Video Signals	1080p: 60/50/30/25/59.94/29.97 1080i: 60/50/59.94 720p: 60/50/30/25/59.94/29.97
Optical Zoom	20x optical zoom f=4.7~94mm
View Angle	2.9°(tele)~55.4°(wide)
Iris	F1.8 ~ F2.4 F1.6 ~ F3.5
Digital Zoom	X10
Minimum Illumination	0.5Lux (F1.8, AGC ON)
Digital Noise Reduction	2D & 3D digital noise reduction
White Balance	Manual/Auto/One Push/3000K/4000K/5000K/6500K
Focus	Auto/Manual
Aperture	Auto/Manual
Electronic Shutter	Auto/Manual
BLC (Back Light Comp)	ON/OFF
WDR	OFF/Dynamic Range adjustment
Video Adjustment	Brightness, Color, Saturation, Contrast, Sharpness, Gamma curve
SNR	>55dB
PANORAMIC CAMERA	
Sensor	1/3 inch high quality HD CMOS sensor
Effective Pixels	2.1 megapixel
Lens	Manual Focus
View Angle	73°
I/O INTERFACE & PROTOCOLS	
Video Interface	3G-SDI
Network Interface	100M network interface (10/100BASE-TX) 5G <u>WiFi</u> (optional) VISCA IP protocol
Network Protocol	RTSP,RTMP,ONVIF,GB/T28181
Compress Image Code Stream	Dual stream output
Video Compress Format	H.264,H.265
Control Signal Interface	RS-232
Control Protocol	VISCA/ <u>Pelco-D</u> / <u>Pelco-P</u> Baud Rate:115200/9600/4800/2400bps
Audio Input Interface	Dual audio channel 3.5mm linear input
Audio Compress Format	AAC,MP3,PCM
Power Interface	HEC3800 power jacket (DC12V)
PAN/TILT PARAMETERS	
Pan Rotation	-170°~+170°
Tilt Rotation	-30°~+90°
Pan Control Speed	0.1 ~ 100°/s
Tilt Control Speed	0.1~45°/s
Preset Speed	Pan: 100°/s Tilt: 45°/s
Preset Number	Up to 255 internal
OTHER PARAMETERS	
Supply Adapter	Input AC110V-AC220V to DC12V/2.5A
Input Voltage	Output DC12V±10% POE power supply optional
Input Current	1.5A (Maximum)
Power Consumption	18W (Maximum)
Storage Temperature	14° ~ 140° -10 °C~+60 °C
Storage Humidity	20%~95%
Working Temperature	14° ~ 122° -10 °C~+50 °C
Working Humidity	20%~80%
Dimensions W x H x D	10" x 5.6" x 6.8" 254 x 144 x 174mm
Weight (approx.)	3.4 <u>lbs</u> 1.54kg

