

# IT-FHD20KS PTZ CAMERA



### 1080P Full HD

High-quality HD CMOS sensor with 2.07 million effective pixels for high-quality images up to 1920x1080.

### Full Function USB Interface

Full function USB interface, compatible with USB3.0 and USB2.0, support UVC 1.1 and UAC1.0 protocol, support video original image and encoded image output.

### 20x Optical Zoom

Adopt high-quality long focus lens, support 20x optical zoom and 16x digital zoom.

### Low-light

High SNR of CMOS sensor combined with 2D and 3D noise reduction algorithm, effectively reduce the noise, even under low illumination conditions, picture can still keep clean and clear.

### Remote Control

Multiple remote controlling methods like using RS232, RS485, network and USB cable to control the camera.

### Support H.264 Slice/ H.264 SVC

Support Slice and SVC encoding mode, adapts to video conference of advance USB application.

### Support PoE

Wire network cable to link PoE, remote control, video and audio together only by one network cable.

### Perfect Interface

Support HDMI, USB3.0, network interface to simultaneously output 1080P video.

### Three methods for power supply

Simultaneously support USB 5V, 12V power adapter and PoE power supply.

Camera	
Video Resolution	1080P60, 1080P50, 1080P30, 1080P25, 720P60, 720P50
Sensor	1/2.8", CMOS, Effective Pixel: 2.07M
Scanning Mode	Progressive
Lens	20x, f4.7mm ~ 94mm, F1.6 ~ F3.6
Digital Zoom	16x
Minimal Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, indoor, outdoor, one push, Manual, Color changing temperature
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction
Video S/N	≥55dB
Horizontal Angle of View	61.1° ~ 3.5°
Vertical Angle of View	35.8° ~ 2.0°
Horizontal Rotation Range	±170°
Vertical Rotation Range	-30° ~ +90°
Pan Speed Range	2.7° ~ 35.7°/s
Tilt Speed Range	2.7° ~ 31.5°/s
H & V Flip	Support
Image Freeze	Support
Number of Preset	255
Preset Accuracy	0.1°

IPC Features	
Video Compression	H.264/MJPEG
Video Stream	Main Stream, Sub Stream
Main Stream Resolution	1920x1080, 1280x720, 1024x576, 960x540, 640x480, 640x360
Sub Stream Resolution	1280x720, 1024x576, 720x480, 720x408, 640x360, 480x272, 320x240, 320x180
Video Bit Rate	32Kbps ~ 20480Kbps
Bit Rate Type	Variable Rate, Fixed Rate
Frame Rate	50Hz: 1fps ~ 50fps, 60Hz: 1fps ~ 60fps
Audio Compression	AAC
Audio Bit Rate	96Kbps, 128Kbps, 256Kbps
Support protocols	TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, Multicast, etc.

Input/Output Interface	
USB Interface	1xUSB 3.0, Type-C
HDMI Interface	1xHDMI1.4b
Network Interface	1xRJ45: 10M/100M Ethernet Interface
Audio Interface	1x3.5mm Audio Interface, Line In
Communication Interface	1xRS232 In: 8pin DIN, Max distance: 30m, VISCA/Pelco-D/Pelco-Pprotocol 1xRS485 In: 2 Core phoenix interface, Max distance: 1200m, VISCA/Pelco-D/Pelco-Protocol
Power Jack	JEITA (DC IN 12V) / USB Type B (DC IN 5V)



USB Featured	
Operate System	Windows 7, Windows 8, Windows 10, Mac OS X, Linux, Android
Color System / Compression	YUY2 / H.264 / MJPEG
Audio on USB	Support
Video Format	YUY2 (ISOC): Max to 1080P@60fps H.264 AVC: Max to 1080P@60fps MJPEG: Max to 1080P@60fps
USB Video Communication Protocol	UVC 1.1
UVC PTZ	Support

General specification	
Input Voltage	DC 12V/DC 5V/PoE(802.3af)
Current Consumption	12V 1.0A(max)/5V 1.5A(max)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F)
Storage Temperature	-40°C ~ 60°C (-40°F ~ 140°F)
Power Consumption	12W (Max)
MTBF	>30000h
Size	144mm x 144mm x 167.9mm