DHI-PKC-UC12D

USB Camera

Series Overview

The PTZ Camera performs outstandingly with its comprehensive functions and multiple ports. Utilizing advanced ISP processing technology and cutting-edge algorithms, it delivers visuals of exceptional quality with consistent brightness and vibrant colors. It also has remarkable clarity and accurate color reproduction, making it ideal for use in conferences, education, healthcare, government affairs, cloud videos, collaborative office, multimedia integration, emergency command and more.

- High-Quality Image Sensor: The camera employs an 8.5 MP high-quality image sensor capable of outputting a resolution up to 4K (3840 × 2160), with a frame rate as high as 30 frames per second.
- Optical Zoom Lens: It features an 85° optical zoom lens with a 12x zoom capacity, enabling you to view your scene from various angles.
- Advanced Auto-Focus Technology: Utilizing advanced focusing algorithms, the lens achieves quick, accurate, and stable auto-focus functionality.
- Low Noise and High Signal-to-Noise Ratio: The low-noise CMOS sensor ensures a high signal-to-noise ratio in the video output. Advanced 2D and 3D noise reduction technologies are implemented to further minimize noise while maintaining image clarity.
- Control Ports: Includes RS232-IN.
- Multiple Control Protocols: Supports the VISCA, PELCO-D, and PELCO-P protocols, and features automatic protocol recognition.
- Multiple Network Protocol: Support ONVIF, RTSP, RTMP, VISCA OVER IP, IP VISCA, RTMPS, SRT protocols; support RTMP push mode, easily link streaming media servers (Wowza, FMS); support RTP multicast mode.
- Quiet PTZ: It comes equipped with high-precision stepper motors and a precise motor drive controller, ensuring smooth operation of the pan and tilt mechanism without generating any noise.
- Multiple Presets: Supports up to 255 preset positions, 10 of which can be accessed through the remote control.
- Built-in Gravity Sensor: Features the automatic gimbal flip function that uses the gravity sensor, which simplifies installation for engineers.
- Low Power Mode: Features a sleep and wake-up mode that reduces power consumption to below 400 mW during sleep periods.
- Auto Framing: Incorporates a high-speed processor and face detection algorithms that enable automatic detection of meeting participants for optimal framing.
- Intelligent Voice Tracking: Features 6 built-in omnidirectional microphone arrays and advanced voice localization algorithms that enable real-time tracking of speakers.

Technical Specification

Device Lens

Image Sensor	1/2.8 inch high quality CMOS sensor
Max. Resolution	3840 (H) × 2160 (V)
Video Frame Rate	HDMI： 3840 × 2160p@30/25 fps; 1920 × 1080p@30/25 fps; 1920 × 1080p@19.97 fps; USB3.0: Main Stream YUY2/NV12: 1920 × 1080p@30/25/20/15/10/5 fps; 1280 × 720p@30/25/20/15/10/5 fps; 1024 × 576p@30/25/20/15/10/5 fps; 800 × 600p@30/25/20/15/10/5 fps; 800 × 448p@30/25/20/15/10/5 fps; 640 × 480p@30/25/20/15/10/5 fps; 640 × 360p@30/25/20/15/10/5 fps; 480 × 270p@30/25/20/15/10/5 fps; 320 × 180p@30/25/20/15/10/5 fps Main Stream H264/MJPG: 1920 × 1080p@30/25/20/15/10/5 fps; 1600 × 896p@30/25/20/15/10/5 fps; 1280×720p@30/25/20/15/10/5 fps; 1024 × 576p@30/25/20/15/10/5 fps; 960 × 540@30/25/20/15/10/5 fps; 800 × 600@30/25/20/15/10/5 fps; 800 × 448p@30/25/20/15/10/5 fps; 720 × 576@30/25/20/15/10/5 fps; 720 × 480@30/25/20/15/10/5 fps; 640 × 480@30/25/20/15/10/5 fps; 640 × 360@30/25/20/15/10/5 fps; 480 × 270@30/25/20/15/10/5 fps; 352 × 288@30/25/20/15/10/5 fps; 320×240@30/25/20/15/10/5 fps Sub Stream YUY2/NV12: 1920 × 1080p@30/25/20/15/10/5 fps; 1280 × 720p@30/25/20/15/10/5 fps; 1024 × 576p@30/25/20/15/10/5 fps; 800 × 600p@30/25/20/15/10/5 fps; 800 × 448p@30/25/20/15/10/5 fps; 640 × 480p@30/25/20/15/10/5 fps; 640 × 360p@30/25/20/15/10/5 fps; 480 × 270p@30/25/20/15/10/5 fps; 320 × 180p@30/25/20/15/10/5 fps Sub Stream H264/MJPG: 1920 × 1080p@30/25/20/15/10/5 fps; 1600 × 896p@30/25/20/15/10/5 fps; 1280 × 720p@30/25/20/15/10/5 fps; 1024 × 576p@30/25/20/15/10/5 fps; 960 × 540@30/25/20/15/10/5 fps; 800 × 600@30/25/20/15/10/5 fps; 800 × 448p@30/25/20/15/10/5 fps; 720 × 576@30/25/20/15/10/5 fps; 720×480@30/25/20/15/10/5 fps; 640 × 480@30/25/20/15/10/5 fps; 640 × 360@30/25/20/15/10/5 fps; 480 × 270@30/25/20/15/10/5 fps; 352 × 288@30/25/20/15/10/5 fps; 320 × 240@30/25/20/15/10/5 fps
Field of View	f=1.89 mm: Horizontal angle: 7.6° (narrow angle)–80.5° (wide angle) Vertical angle: 4.4° (narrow angle)–50.0°(wide angle) Diagonal angle: 8.7˚ (narrow angle)–88.9˚(wide angle)
Focal Length	f=1.89 mm
Digital Zoom	15×
Min. Illumination	0.5 lux (F1.8, AGC ON)
Aperture	F1.85–F2.43
Lens Type	Automatic/manual/one-click focus

Function

Noise Reduction	2D and 3D digital noise reduction
White Balance	Automatic/manual/one-click WB/specified color temperature
Exposure	Automatic and manual
BLC	On/off
Image Adjustment	Brightness, hue, saturation, contrast, sharpness, black-white mode, gamma ray curve
S/N Ratio	> 50 dB
Video Compression	YUY2/NV12/MJPG/H.265
USB Video Communication Protocol	UVC/UAC

Port

Video Output Port	HDMI/LAN/USB3.0
Control Port	RS 232-IN
Protocol	VISCA/Pelco-D/Pelco-P; baud rate115200/38400/9600/4800/2400
Power	HEC3800 power socket (12 VDC)

PTZ

PTZ Pan/Tilt	Horizontal angle: −110°–+110° Pitch angle: −30°–+30°
PTZ Speed	Horizontal angle speed control: 0.1°–100° per second Pitch angle speed control: 0.1°–70° per second
PTZ Presets	The user can set up to 255 preset positions (with 10 preset positions accessible via the remote control)

General

Operating Voltage	12 VDC
Operating Current	<1 A
Power Consumption	<12 W

Environment

Operating Temperature	−10 °C to +50 °C (−14 °F to +122 °F)
Operating Humidity	20%–80% (RH)
Storage Temperature	−10 °C to +60 °C (−14 °F to +140 °F)
Storage Humidity	20%–80% (RH)
Operating Environment	Indoor

Size and Weight

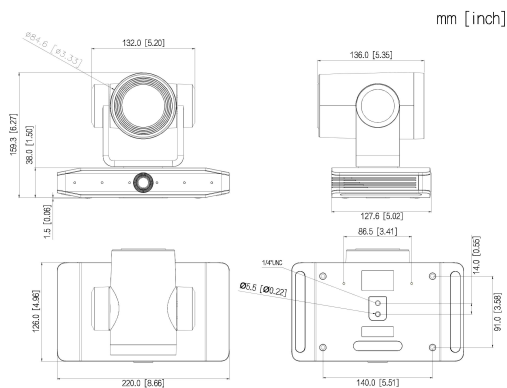|	
Product Dimensions	220.0 mm × 136.0 mm × 159.0 mm (8.66" × 5.35" × 6.26") (L × W × H)
Packaging Dimensions	350.0 mm × 273.0 mm × 255.0 mm (13.78" × 10.75" × 10.04") (L × W × H)
Gross Weight	3.7 kg (8.16 lb)
Net Weight	1.7 kg (3.75 lb)

Packing List

Packing List	1 camera, 1 power adapter, 1 remote control, 1 users' manual, 1 warranty card, 1 silicone pad, 1 RS-232 serial cable

Ordering Information

Type	Model	Description
VIDEO CONFERENCING CAMERA	DHI-PKC-UC12D	USB Camera

Dimensions (mm[inch])

Panels