

NIOTEK

UC-A100

Designed for corporate executive meetings, professional broadcasting, educational recordings, and more, the NIOTEK UC-A100 Pan-Tilt-Zoom (PTZ) Camera feature SONY's latest 1/2.5-inch UHD CMOS sensor, delivering 4K video quality. Equipped with a 12x optical zoom lens and equipped with AI humanoid tracking algorithms.

The NIOTEK UC-A100 stands out as the premier 4K PTZ camera, making it an excellent choice for businesses seeking top-tier performance.



Adaptive high-precision PTZ



12x optical zoom with extended 16x digital zoom



Simultaneous UHD video output via HDMI, USB, and LAN



Exceptional UHD video quality



Multiple remote control modes (RS232/RS485/ IP USB / IR remote)



Ultra-quiet and smooth PTZ movement for a distraction-free meeting



Superb low-light performance for life-like videos even in dimly lit meeting rooms



PoE support for video stream, network data and power over single ethernet cable

Camera

Video Format: 4K@30fps, 4K@25fps, 4K@29.97fps, 1080P@60fps, 1080P@50fps, 1080I@60fps, 1080I@50fps, 1080P@30fps, 1080P@25fps, 1080P@59.94fps, 1080I@59.94fps, 1080P@29.97fps, 720P@60fps, 720P@59.94fps, 720P@50fps

Sensor: 1/2.5 inch, CMOS, Max Effective Pixel: 8.51M
Optical Zoom: 12x (f = 4.4mm ~ 52.8mm, F1.8 ~ F2.6)
Digital Zoom: 16x
Minimum Illumination: 0.5 Lux @ (F1.8, AGC ON)
White Balance: Auto, Indoor, Outdoor, One Push, Manual
Backlight Compensation: Supported
Digital Noise Reduction: 2D & 3D Digital Noise Reduction
Horizontal Angle of View: 71°
Vertical Angle of View: 42.7°
Diagonal Angle of View: 82.8°
Horizontal Rotation Range: ±170°
Vertical Rotation Range: ±130°
Pan Speed Range: 1.6° /s ~ 76° /s
Tilt Speed Range: 0.5° /s ~ 15° /s
Number of Preset: 255
Preset Accuracy:

Video Format: ① H.264 AVC: max to 2160P@30fps
② H.264 SVC: max to 2160P@30fps
③ MJPEG: max to 2160P@30fps

Network Features

Video Compression: H.264 / H.265 / MJPEG
Video Stream: First Stream, Second Stream
Primary Stream Resolution: 3840x2160, 1920x1080, 1280x720, 1024x576
Sub Stream Resolution: 720x480, 720x408, 640x480, 640x360, 480x320, 320x240
Audio Compression: AAC/G711A
Video Bit Rate: 48Kbps, 64Kbps, 96Kbps, 128Kbps
Bit Rate Control: Variable Rate, Fixed Rate
Frame Rate: 50 Hz: 4K encoding supports a maximum of 30 frames; 1080P encoding supports a maximum of 50 frames. 60 Hz: 4K supports a maximum of 30 frames, 1080P supports a maximum of 60 frames.
Audio Bit Rate: 96 Kbps, 128 Kbps
Audio Compression: G711A
Supported Protocols: TCP/IP, HTTP, RTSP, RTMP, ONVIF, DHCP, Multicast, etc.

USB Features

Operating System: Windows 7/8/10/11, Mac OS X, Linux, Android
Encoding Format: H.264 / MJPEG
Video Format: H.264 up to 2160p@30pfs, MJPEG up to 2160p@30pfs
USB Audio: Supported
USB Video Communication Protocol: UVC 1.1 ~ 1.5
UVC PTZ: Supported

Power

Simultaneous power input: Power jack DC 12 V/ USB DC 5 V/ PoE (802.3af)
Current Consumption: 12 V 1.0 A (Max) / 5 V 1.5 A (Max)
Power Consumption: 12 W (Max)

Environmental Conditions

Operation Temperature: -10° C ~ 40° C
Storage Temperature: -40° C ~ 60° C

Control

IR Remote Control
Serial Control (RS232 / RS485): VISCA / Pelco-D/ Pelco-P
Networked Control (IP): VISCA over IP / ONVIF
UVC PTZ Control
Web interface control: Web browser access / HTTP CGI
NIOTEK Align

Physical Specifications

Camera Dimension L x H x D: 238x167x149mm (9.37x6.57x5.87 inch)
Net Weight: 1.35 Kg
Package Dimension L x H x D: 285x235x230mm (11.22x9.25x9.06 inch)
Gross Weight: 3.10 Kg

Input/ Output Port

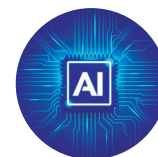
Network Interface: 1 x RJ45: 10/100/1000M Adaptive Ethernet Port
HDMI Interface: 1 x HDMI: Version 1.4
3G-SDI Interface: 1 x 3G-SDI: BNC type
3.5 mm Jack: Line In
USB Interface: 1 x USB 2.0 (Type-B): Up to 4K@30fps compressed video and 1080P original video can be output
Control Interface: 1 x RS232 IN, Protocol: VISCA/Pelco-D/Pelco-P
1 x RS232 OUT, Protocol: VISCA
1 x RS485, Protocol: VISCA / Pelco-D / Pelco-P
Power Jack: JEITA type DC IN 12V

Package Contents

UC-A100 Camera
Lens Cover
USB 3.0 Cable (2 m)
Power Adaptor
Remote Control
Quick Start Guide

Compatible Applications

Supports mainstream VC software including ZOOM, Microsoft® Teams, Google Meet, Google Hangouts, Cisco WebEx®, RingCentral, etc.



Interface Diagram

