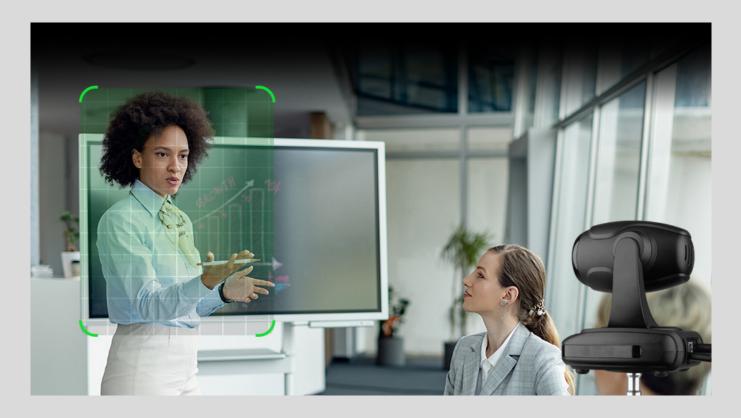# RC310
Mini PTZ Video Camera

The camera is equipped with a new generation of 1/2.9-inch high-quality HD CMOS sensor with 2 million effective pixels, with 90° high-quality ultra-wide focal lens, supporting 3X optical zoom, and 16x digital zoom, the picture quality is clear and can be seen from far and near. At the same time, 2D & 3D digital noise reduction is applied, and the image is still clear even in low light conditions. 255 presets, one key to switch the screen without manual control. Widely used in small conference rooms, medical industry and other application scenarios.

Main Features

AI Humanoid Tracking

Embedded NNE hardware unit, using deep learning technology, through the extraction of target features, no matter where the face is facing, can achieve smooth humanoid tracking.

Remote Control

The camera can be controlled remotely through the RS232 and USB port.

Full HD Image Sensor

High-quality 1/2.9-inch HD CMOS sensor with 2.07 million effective pixels for high-quality images.

Two Kinds of Power Supply Modes: Supports both USB 5V and DC 12V power supply.

TOF Focus

Equipped with a laser assisted focusing instrument and realize high-speed and accurate auto focusing through the advanced auto focusing algorithm.

Normal Focus
1.5 S
F/3.0

TOF Focus
0.2 S
F/1.8

TOF Module

90° Wide-angle Lens + 16x Digital Zoom

Adopts 90° high-quality ultra-wide focal lens, supports 3x optical zoom + 16x digital zoom.

Full-featured USB Interface

Full-featured USB2.0 interface, supports audio, encoding output, UVC 1.1 and UVC 1.0 protocols.

USB2.0   RS232   DC 12V

Low illumination

New CMOS image sensor with ultra-high SNR can effectively reduce the image noise under low illumination. Meanwhile, the application of 2D and 3D noise reduction algorithms dramatically reduces image noise. The image maintains clean and clear even under ultra-low light illumination. The SNR of the image is as high as 55dB or above.

Product Interface

1. USB 2.0   2. RS232 Interface   3. DC 12V

Remote Control

Standby Key
Turn on/off or wake up the device.

Direction Key
Adjust the menu cursor and menu parameters.

Return Key
Return to the upper level of the menu.

Menu Key
Open the menu or exit the menu.

No. 1 /No. 2 Preset Key
No. 1 preset position, long press for 3 seconds to set the preset position, short press to adjust the preset position.

TRACKING OFF Key
Turn on/off or wake up the device.

Mute Key
Turn the microphone on or off. When the microphone is turned off, there is a mute icon on the video.

HOME Key

ZOOM + Key: Digital Zoom In

ZOOM - Key: Digital Zoom Out

SWITCH Key
Click the first "SWITCH Key", the image display is currently the tracking function (target tracking) or automatic frame selection function (auto framing). Click the second "SWITCH Key" to switch the current function.

Product Specifications

Camera

Sensor	1/2.9'', CMOS, Max Effective Pixel：2.07M
Scanning Mode	Progressive
Lens	3X, f3.35mm ~ 10.05mm, F1.7 ~ F3.0
Digital Zoom	16X
Minimal Illumination	0.5 Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual, VAR
Digital Noise Reduction	2D&3D Digital Noise Reduction
Backlight Compensation	Support
S/N	≥55dB
Horizontal Angle of View	90° ~ 30.7°
Vertical Angle of View	52° ~ 18.4°
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 Freezing	Support
Number of Preset	255
Preset Accuracy	0.1°

USB Features

Operating System	Windows 7, Windows 8, Windows 10, Windows 11, Mac OS X, Linux, Android
Color System / Compression	YUY2 / MJPEG / H.264
Video Format	YUY2 (Isochronous mode): Max 640x480P30 MJPEG: Max 1920x1080P30 H.264:Max 1920x1080P30
Audio on USB	Support
USB Video Communication Protocol	UVC 1.1
UVC PTZ Control	Support

Input/output Interface

USB Interface	1xUSB 2.0, Type-C
Audio Input	Built-in dual Mics,3m Pickup distance
Communication Interface	1xRS232 In: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA/Pelco-D/Pelco-P
Power Jack	JEITA (DC IN 12V) / USB Type-C (DC IN 5V)

General specification

Input Voltage	DC 12V/USB 5V
Input Current	12V 1.0A(Max)/5V 1A(Max)
Operating Temperature	-10℃ ~ 40℃ (14℉ ~ 104℉)
Storage Temperature	-40℃ ~ 60℃ (-40℉ ~ 140℉)
Power Consumption	12W （Max）
Size	144mm x 144mm x 167.9mm
MTBF	>30000H

ROCWARE®

ROCWARE CORPORATION

Web : www.rocware.com

TEL : +1-800-416-1895

Address : 1770 Evergreen St., Duarte, CA 91010, USA

Mail : rocware@rocware.com

www.rocware.com

Customer Service: • 1 Year Warranty   • 7 X 24 Hours Service   • Local Service & Support

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