CAMERAS

4K UHD Intelligent Teaching Camera

D

RC-31





Dual-camera

Collaboration







Automatic Generate Whiteboard Video Stream

RC031 is a 4K UHD intelligent teaching camera designed specifically for the education field. By setting up a teacher unit and a student unit, it can provide coverage of the entire classroom. The camera is equipped with built-in AI tracking algorithms and intelligent switching strategies, allowing for real-time switching of different perspectives, including panoramic and close-up views of the teacher, panoramic and close-up views of the students, as well as close-up views of the teacher's whiteboard. It can automatically generate unobstructed views of the whiteboard, enabling a comprehensive presentation of the teacher's perspective and the students' perspective, making it an ideal tool for interactive teaching in schools.



FEATURES

▼ 4K UHD VIDEO QUALITY

The camera utilizes a 1/2.7" high-quality 4K CMOS sensor with 8.31 Megapixels, providing an ultra-clear video teaching experience.

▼ AI TRACKING CAPTURE

The camera is equipped with AI algorithms for detecting human heads, faces and bodies. The teacher unit can automatically track and capture the teacher's movements, unaffected by student movements or the presence of large screens. The student unit can accurately detect student standing actions, regardless of other student movements.

▼ INTELLIGENT WHITEBOARD GENERATION

During a class, the camera can automatically remove any obstruction of the whiteboard by capturing human figures, providing real-time unobstructed video streams and snapshots of the whiteboard for easy viewing by students.

▼ INTELLIGENT SWITCHING STRATEGY

The camera features an Al-based automatic switching strategy, allowing real-time switching of different perspectives based on the dynamic conditions in the classroom. This includes panoramic and close-up views of the teacher, panoramic and close-up views of the students and close-up views of the teacher's whiteboard. The switching process is as smooth as manual broadcasting.

▼ DUAL-UNIT DUAL-PERSPECTIVE

The camera offers both a teacher unit and a student unit. The teacher unit has a 44° field of view and supports autofocus, while the student unit has a 95° field of view, capturing the entire classroom scene.

▼ EASY INSTALLATION AND WIRING

The camera supports PoE (Power over Ethernet) connectivity, allowing for a simple and efficient installation. With its compact design, it doesn't take up much space in the classroom. The camera also offers a variety of interfaces, making it compatible with existing school equipment such as large screens, speakers, and monitoring systems.

COMREON®

SPECIFICATIONS

▼ CAMERA

Sensor	1/2.7", CMOS, 8.31 Megapixels
Scanning Mode	Progressive
Lens Mount	M12
Lens One (For Teacher)	Focal length: f=7.2mm, Wide Angle: 44°
Lens Two (For students)	Focal length: f=2.8mm, Wide Angle: 95°
Minimal Illumination	0.5Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, Indoor, Outdoor, One Push, Manual
Backlight Compensation	Support
EPTZ	Support
Auto-Focusing	Lens one Support
PoE-Powered	Support
Digital Zoom	8X

▼ USB FEATURES

Operating System	Windows 11, Windows 10, Windows XP, Windows Vista, Windows 7, Windows 8, Mac OS X, Linux
Color System / Compression	H.264 / MJPEG
Video Format	MJPEG: Max 2160P30fps
USB Audio	UAC1.0
USB Video Communication Protocol	UVC 1.1 ~ UVC 1.5

▼ IPC FEATURES

H.265 / H.264 / MJPEG
Primary video stream, Secondary video stream, Tertiary video stream, Quaternary video stream
1920x1080, 1280x720, 1024x576, 960x540, 640x480, 640x360, 320x240, 320x180
3840x2160,1920x1080,1920x1080,1280x 720,1024x576,720x576(50Hz),720x480(6 0Hz), 720x408,640x360,480x270
1920X1080,1280X720,1024x576,960x54 0,720x576(50Hz),720x480(60Hz),720x4 08,640x360,480x270,320x240,320x180
1024x576,960x540,720x576(50Hz),720x480 (60Hz),720x408,640x360,480x270,etc.
32Kbps ~ 16384Kbps
Variable Rate, Fixed Rate
1~30fps
AAC / G.711a
96Kbps, 128Kbps
TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, GB28181, Multicast,etc.

▼ INPUT / OUTPUT INTERFACE

USB	1x USB 2.0; Type-C
Network Interface	1x RJ45: 10M/100M Adaptive Ethernet, PoE support
Audio Interface	1x 3.5mm LINE IN 1x 3.5mm LINE OUT
Power Jack	DC005 (DC 12V)
Indicator light	Power indicator light
Infrared Interface	Support

▼ GENERAL SPECIFICATION

Input Voltage	DC 12V / PoE (802.3af)
Input Current	0.5A (Max)
Operating Temperature	-10°C ~ 40°C
Storage Temperature	-40°C ~ 60°C
Power Consumption	6W (Max)
MTBF	>30000H
Dimension	110mm (W) x 96mm (D) x 44mm (H)
Weight	0.2kg

INTERFACE



2 — LINE IN

3 — LINE OUT

4 ---- USB 2.0

5 ---- DC 12V

6 — Indicator Light

