

RC031

4K Educational Auto Tracking Box Camera



RC031 is a new-generation AI blessing 4K box camera specially built in the field of education. It has the characteristics of high configuration, high specifications, light deployment, and can quickly build a smart classroom environment for the school, and seamlessly connects the existing teaching environment. Teachers have no burden on teaching.

HD EPTZ

Configure 4K Sensor and 4K lens to achieve high-definition electronic pan-tilt effect.

Intelligent Teaching Tracking

Built-in leading image recognition and tracking algorithm, you can achieve smooth and natural tracking without any auxiliary positioning camera or tracking host. It supports teacher tracking mode and student tracking mode.

AF Lens

The 44° lens of the teacher camera supports auto focus, the horizontal angle of the student camera can reach 95°, the small lens, the big vision. At the same time, EPTZ is supported, and the brake is not moved, and it is enlarged and seen more clearly.

Network or USB Director Output

It does not need recording or terminal and other director equipment, and can realize the director stream output of teacher camera and student camera.

Low Illumination

The application of 2D and 3D noise reduction algorithm greatly reduces the image noise. Even under the condition of ultra-low illumination, it still keeps the picture clean and clear, and the SNR of image is as high as 55dB.

PoE

It supports PoE (Power over Ethernet) 1-wire connection function and integrates power, video, audio and control.

Camera	
Sensor	1/2.7 inches, CMOS, Effective Pixels: 8.46 Megapixels
Scanning Mode	Progressive
Lens Mount	M12
Lens I (Teacher's Camera)	Focal length: f=7.2mm, Horizontal FOV: 44°
Lens II (Student's Camera)	Focal length: f=2.8mm, Horizontal FOV: 95°
Minimum 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
EPTZ	Support
Auto Focus	Teacher's machine supported
Digital Zoom	8X
PoE +	Support
Select lens I/II	Corresponding to the teacher/student tracking mode, respectively

Network Features	
Video Compression	H.264 / MJPEG
Video Stream	First Stream, Second Stream Third Stream, Fourth Stream
First Stream Resolution	1920x1080, 1280x720, 1024x576, 960x540, 640x480, 640x360, 320x240, 320x180
Second Stream Resolution	3840x2160, 1920x1080, 1280x720, 1024x576, 720x576(50Hz), 720x480(60Hz), 720x408, 640x360, 480x270
Third Stream Resolution	1920x1080, 1280x720, 1024x576, 960x540, 720x576(50Hz), 720x480(60Hz), 720x408, 640x360, 480x270, 320x240, 320x180
Fourth Stream Resolution	1024x576, 960x540, 720x576(50Hz), 720x480(60Hz), 720x408, 640x360, 480x270, 320x240, 320x180
Video Bit Rate	32Kbps ~ 16384Kbps
Bit Rate Control	VBR, CBR
Maximum Frame Rate	1~30fps
Audio Compression	AAC, G711A
Audio Bit Rate	96Kbps, 128Kbps
Protocols	TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, GB/T 28181, Multicast, etc

Interface	
Network Interface	1x RJ45: 10M/100M adaptive Ethernet, PoE support
Audio Interface	1 x 3.5mm LINE IN; 1 x 3.5mm LINE OUT
Power Interface	DC005 type (DC12V)
USB Interface	1 x USB2.0: Type-C Interface
Indicator light	Power Indicator



USB Features	
Operating System Supported	Windows XP, Windows Vista, Windows 7, Windows 8, Windows 10, Windows 11, Mac OS X, Linux
Color System / Compression	H.264 / MJPEG
USB Audio	Support
Video Format	MJPEG: Max. 2160P@30fps
USB Video Communication Protocol	UVC 1.1 ~ UVC 1.5

General specifications	
Input Voltage	DC 12V/ POC/ POE (802.3af)
Input Current	0.5A (Max.)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F)
Storage Temperature	-40°C ~ 60°C (-40°F ~ 140°F)
Power Consumption	6W (Max.)
Dimension	110mm x96mm x 44mm
Net Weight	About 0.2Kg (0.44 lb)