

4K Recording all-in-one R11 SQ



product features

Dual picture extreme vision output, define a new dimension of teaching

121° Distortion-free wide-angle lens with 4K cinema-grade resolution. Capture classroom-wide shots in a single continuous take, featuring auto-tracking close-up lenses that dynamically follow speaker movements. A single lens delivers both panoramic and close-up views simultaneously, delivering crystal-clear details without distortion.

Smart tracking, freeing teachers' hands

Powered by AI computing power, students can automatically trigger close-ups when standing up, turning around or moving, saying goodbye to traditional remote control operation. It can adapt to various standing angles and accurately capture irregular movements, making classroom interaction natural and smooth.

AI algorithm driven, Students Accurately Locate and Capture

The AI algorithm combines microexpression, body movement and answer trajectory analysis to accurately identify students' classroom behavior.

Intelligent scene recognition, one-click recording

Automatically identify different teaching scenarios, equipped with one-click recording and pause function, no need for complex operation.

Minimal deployment, POE network power supply

POE (Power over Ethernet) ready-to-use + three physical buttons. 4 Gigabit network ports with power supply, automatically identifies devices through direct cable connection

4K ultra HD recording, high frame rate smooth picture

Supports 4K resolution recording and ultra high definition presentation. It has high frame rate recording and can achieve 60fps video recording to reduce screen lag.

Deep customization of teaching scenarios, multi-platform compatibility and accessibility

Interactive teaching + Multi-platform compatibility. The main lecture room can connect to 3 listening classrooms simultaneously, with <200ms delay in two-way audio intercom. Supports Windows/Mac/Android systems, direct browser access control, and real-time monitoring on mobile devices.

Cloud storage sharing, flexible storage and expansion

The cloud storage platform is deeply integrated, and the recorded video can be automatically uploaded to the cloud for long-term storage and sharing. The student terminal can access the cloud video and support external storage devices.



hard core

CPU	Four cores Cortex-A55(2.0GHz), 22nm process
GPU	ARM G52 2EE, supports OpenGL ES 3.2/Vulkan 1.1/OpenCL 2.0, embedded 2D acceleration hardware
NPU	1TOPS@INT8, support RKNN framework, compatible with mainstream AI model
VPU	4K60fps H.265/H.264/VP9 decoding; 1080P60fps H.265/H.264 encoding, support 8M ISP+HDR

Storage

memory	4GB LPDDR4/LPDDR4X
Built-in storage	32GB eMMC

physical protection

Environmental tolerance	Seismic resistance (5-50Hz three-directional 30 minutes) Salt spray protection (72h) Lightning protection (surge level 4)
fire-protection rating	Grade A (aluminium alloy fuselage)

joggle

network interface	* 4 Gigabit POE network port, 2.5G independent network card, Supports dual network segment management
video in	*1 HDMI, support 4K30Hz acquisition (including audio)
video monitor 525 vidicon video out	* 2 HDMI, 4K60Hz (with audio)
Audio input	*1 LINE IN; *1 MIC IN
Audio output	*1 LINE OUT
USB 3.0	*2
USB 2.0	*2

Power and managem-
ent

Power supply specifications	DC 52V/2.3A
Standby power consumption	<0.5W
Power button	Boat switch
Function keys	Trinity physical key (power on/off/standstill)

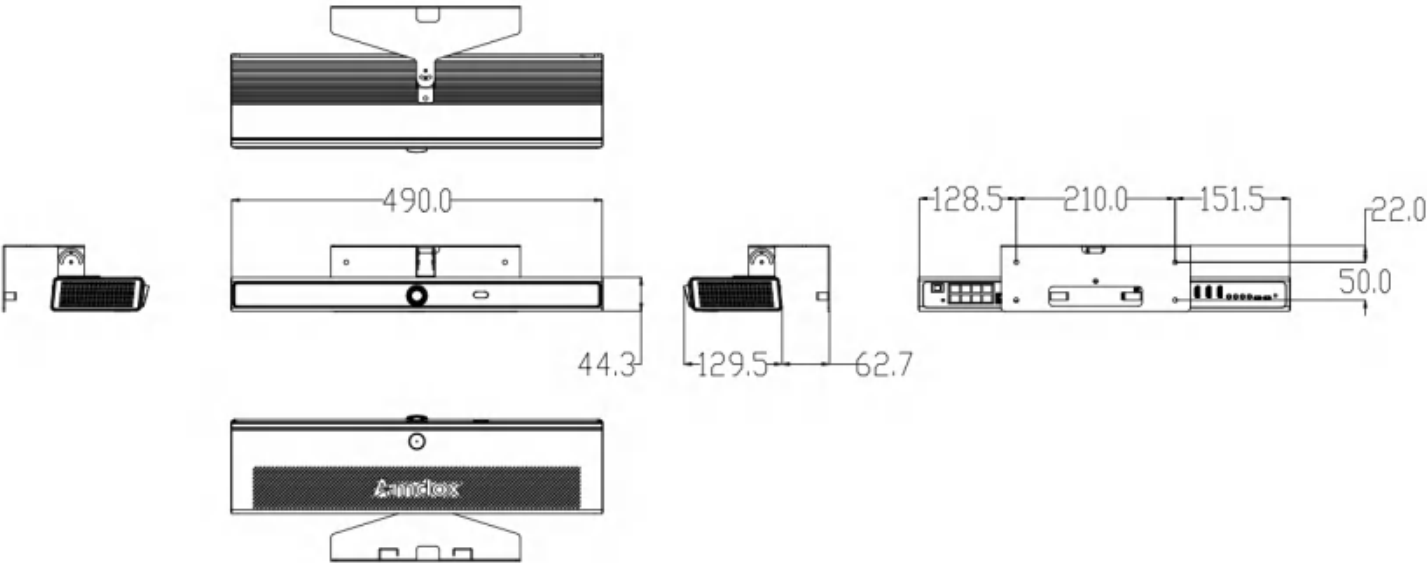
Camera paramet-
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imaging sensor	1/2.8 inch CMOS, 8.42 megapixels
camera lens	Self-developed 121° horizontal field of view 4K distortion-free lens
focal distance	3.4mm
minimal illumination	1Lux (colour)

other

noise-signal ratio	>50dB
Video format	Max 4K@30fps, support MJ-PEG/ H.264/H.265
network interface	RJ45 10/100M, support POE
USB joggle	*1 USB 2.0 (UVC protocol)
Smart features	Student location tracking
power dis- ipation	<5W
Working temperature and humi- dity	0°C~+40°C, 10%RH~90%RH
Size and weight	149mm×76mm×58mm, 0.42kg

product size



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