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ValueRec Solution

To record and share high–quality educational resources with ease and at low cost

ValueSTek

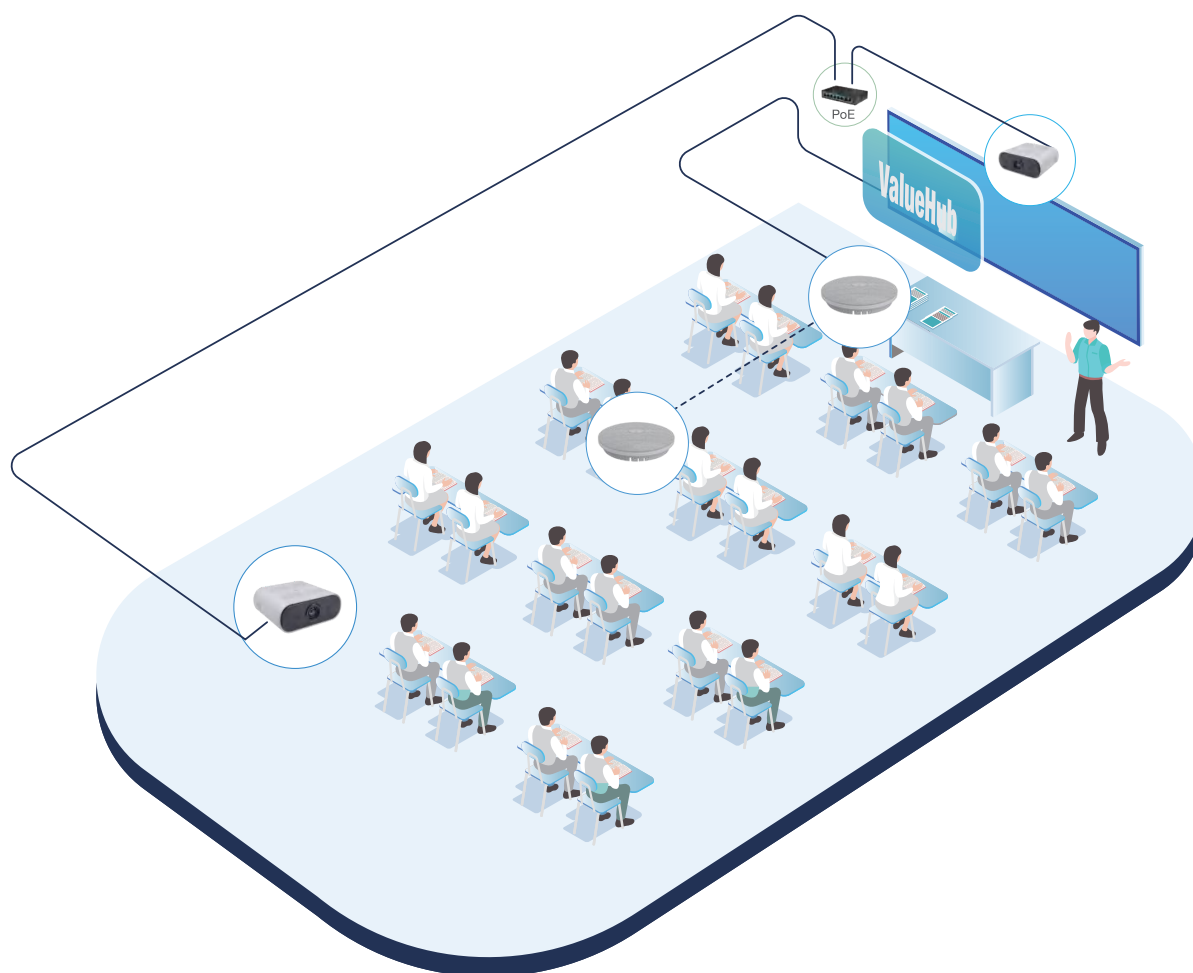| Minimalist Design	Automatic Broadcasting	Magic Perspective	Cascaded Microphone
Easy to deploy Easy to use	Highly integrated	All writing content on blackboard can be recorded and shared	Six-level Cascaded

High quality educational resources are scarce. But how to let more people benefit from high quality education?

ValueSTek provides a low-cost, high-efficiency solution - minimalist design, less devices, easier installation, high intelligence and hands-free to have quality course resources recorded and shared.

This solution just carry core products as two sets of 4K smart cameras and one set of directional microphone. The highly intelligent design can automatically complete the tracking and close-up shooting of teachers and students, and automatically edit and generate a complete teaching process with professional level. The recorded and well-edited videos can be uploaded to the Value-OSC resource platform automatically. More teachers and students can learn and benefit from it.
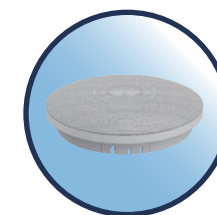
Minimalist Implementation

It is ultra-high cost performance and designed for normalized recording and broadcasting, which can support perfect performance on HD shooting, AI broadcasting, smart board writing, and other intelligent teaching programs.

PoE

ValueHub

VT-CA405T
Teaching Camera

VT-CA406S
Learning Camera

VT-MIC05
Cascade Microphone

ValueStek

4K UHD Intelligent Camera

VT-CA405T (For Teacher)

VT-CA406S (For Student)

4K Ultra Wide Angle/AF lens/ePTZ

Equipped with 4K ultra HD lens, the cameras provide high quality picture and video quality. The teaching camera lens supports viewing angle of 44° and autofocus, and the learning camera supports low distortion level angle up to 95°. Small lens, big vision. At the same time, it supports ePTZ, which controls the lens without moving the camera.

Tracking / Broadcasting

Easier deployment and maintenance

No need recording & broadcasting host and video editing. With built-in leading image recognition and tracking algorithm, it can achieve a smooth and natural tracking effect without any auxiliary positioning camera or tracking host, so as to achieve teacher tracking or student tracking.

Writing Smart Board

All board writing can be recorded

Through the intelligent algorithm of the camera, the video stream and snapshot of the writing content on the blackboard are generated in real-time, even teachers screen out the writing content.

PoE

Support PoE networking

Supports the Power Over Ethernet (PoE), features ISDN (Integrated Services Digital Network), simplifying installation and deployment.

▼ 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

▼ 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

▼ 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	Max 2160P30fps
USB Audio	UAC1.0
USB Video Communication Protocol	UVC 1.1 ~ UVC 1.5

▼ IPC FEATURES

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

ValueStek

Cascade Microphone

VT-MIC05

Cascade/Clear audio pickup/PoE

It can be used in video conferencing, interactive teaching, smart classrooms, and other scenarios. Delicate appearance, plug and play.Intelligent audio-tracking, automatic aligning speaker, 3 meters pickup distance, flexible setting of master and slave devices, cascades through PoE cable, distributed pickup and interaction, uniform coverage of medium and large conference room space.

Six-level Cascaded

Large classrooms are also fully covered

According to the size of the classroom flexible configuration, the maximum support of 200㎡ by up to six-level cascaded MIC.
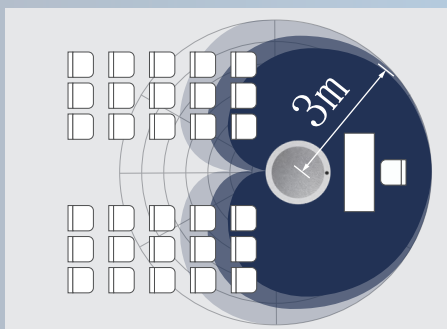
AI audio Processor

Environment adaptive debugging, no need professional adjusting

No external audio processor, environment adaptive debugging, no professional debugging; Intelligent voice tracking, intelligent noise reduction, echo cancellation, automatic gain, anti reverberation, and other advanced technologies; Double talk without suppression, closer to on-site communication.

Automatic Alignment Speaker

Advanced blindtechnology beamforming is adopted

Accurate positioning, and adaptive sound field environment, which can achieve voice enhancement, with better anti interference ability

3m

Effective sound pickup in an 8-meter radius (best pickup at 3 meters), paired with a speaker system for sound amplification reaching 12-14dB, meets national acoustic environment standards.

18 ms

Built-in audio processor with adaptive environment algorithms, feedback suppression, and automatic gain control. Automatically reduces noise and reverberation, with 18ms ultra-low latency for a comfortable auditory experience.

▼ Basic Parameters

Microphone Type	Omnidirectional Microphone
Microphone Array	Built-in ring array of six high signal-to-noise ratio microphones for 360° omnidirectional pickup
Sensitivity	-38 dBFS
Signal-to-Noise Ratio	65 dB(A)
Frequency Response	50Hz-16kHz
Sampling Rate	32K sampling HD broadband audio
Pickup Distance	3 meters pickup
Echo Cancellation	Support
Noise Suppression	Support
Gain Control	Support

▼ Hardware Interfaces

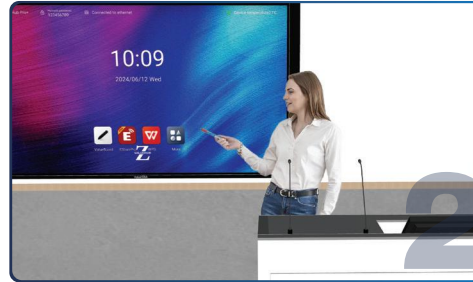|	
Ethernet Port:	RJ45 uplink and downlink network ports
USB Port:	USB Audio Interface (Type-C), UAC1.0 protocol Audio Data Communication, Software Upgrades, and Parameter Configuration
Analog Audio:	AUX1, AUX2 linear audio input/output

▼ Cascading Function

Cascading Method:	PoE network cable
Cascading Quantity:	6 units
Power Supply:	PoE cascading 48V power supply, supports IEEE 802.3 at standard / USB 5V 500mA (single unit)
Supported OS:	Windows / Mac / Linux
Installation Method:	Desktop placement, ceiling mount
Dimensions:	Φ170mm x H40mm
Weight:	370g

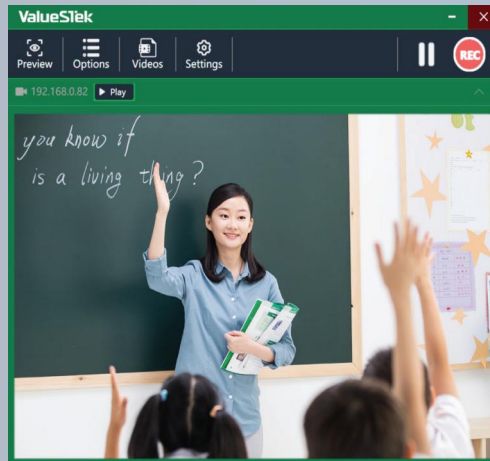# Automated Recording and Video Sharing Platform

Capture a panoramic view of the classroom when the teacher is absent.

When a teacher is detected at the podium, track and capture close-ups, recording the entire lesson.

When a student is detected standing to answer, capture close-ups to record lively classroom interactions.
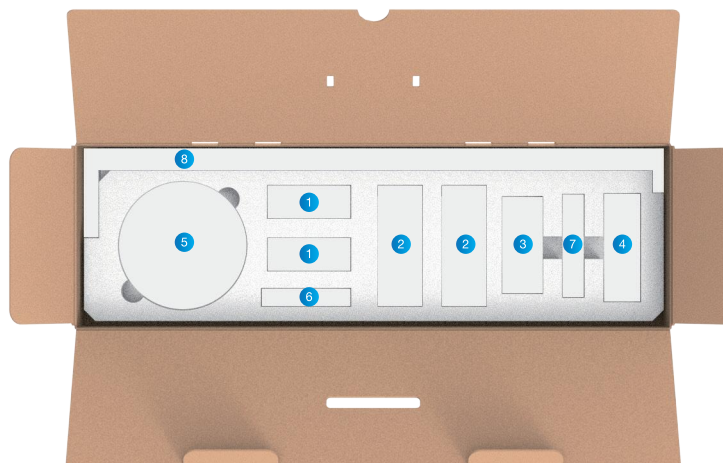

With just two clicks—Start and Stop—lectures can be recorded.
No recording host is needed; the system automatically directs, edits, and uploads high-quality teaching videos to the cloud for sharing.

Showcase high-quality teaching resources by subject and grade, including course videos and materials.Feature course resources from outstanding schools and teachers in dedicated sections.
Improve regional teaching quality by giving more students access to premium educational resources.

Package List

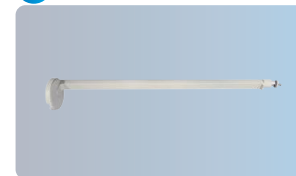|			
1 2 × VT-CA405/406 Camera	**2** Camera Mount Bracket	**3** 2 × USB Cables	**4** Power Supply
5 VT-MIC05 Microphone	**6** Microphone Remote Control	**7** Intelligent Router	**8** Microphone Mount Bracket

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