

ROCWARE[®]

AI Lightweight Smart Classroom Solution



4K Binocular



6 Mics PoE Cascade



AI Behavioral Analysis



Intelligent Director

The solution features a lightweight design for convenient deployment and minimal interference. The camera has AI algorithms tailored for teaching, such as behavior analysis, automatic broadcasting, and intelligent whiteboard generation. Integrating with the AI teaching platform greatly enhances the teaching experience.

LIGHTWEIGHT CONTACTLESS

4K BINOCULAR



Using the Binocular AI Teaching Camera and panoramic cameras allows for accurate and smooth target tracking. The 4K UHD close-up lens captures the teacher's demonstrations and board writing.

6 MICROPHONE PoE CASCADE



The microphone uses beamforming algorithms and audio 3A processing algorithms to effectively reduce classroom noise. It also supports PoE for Ethernet cascade deployment, enabling connection of up to 6 devices, suitable for various installations.

AI BEHAVIORAL ANALYSIS



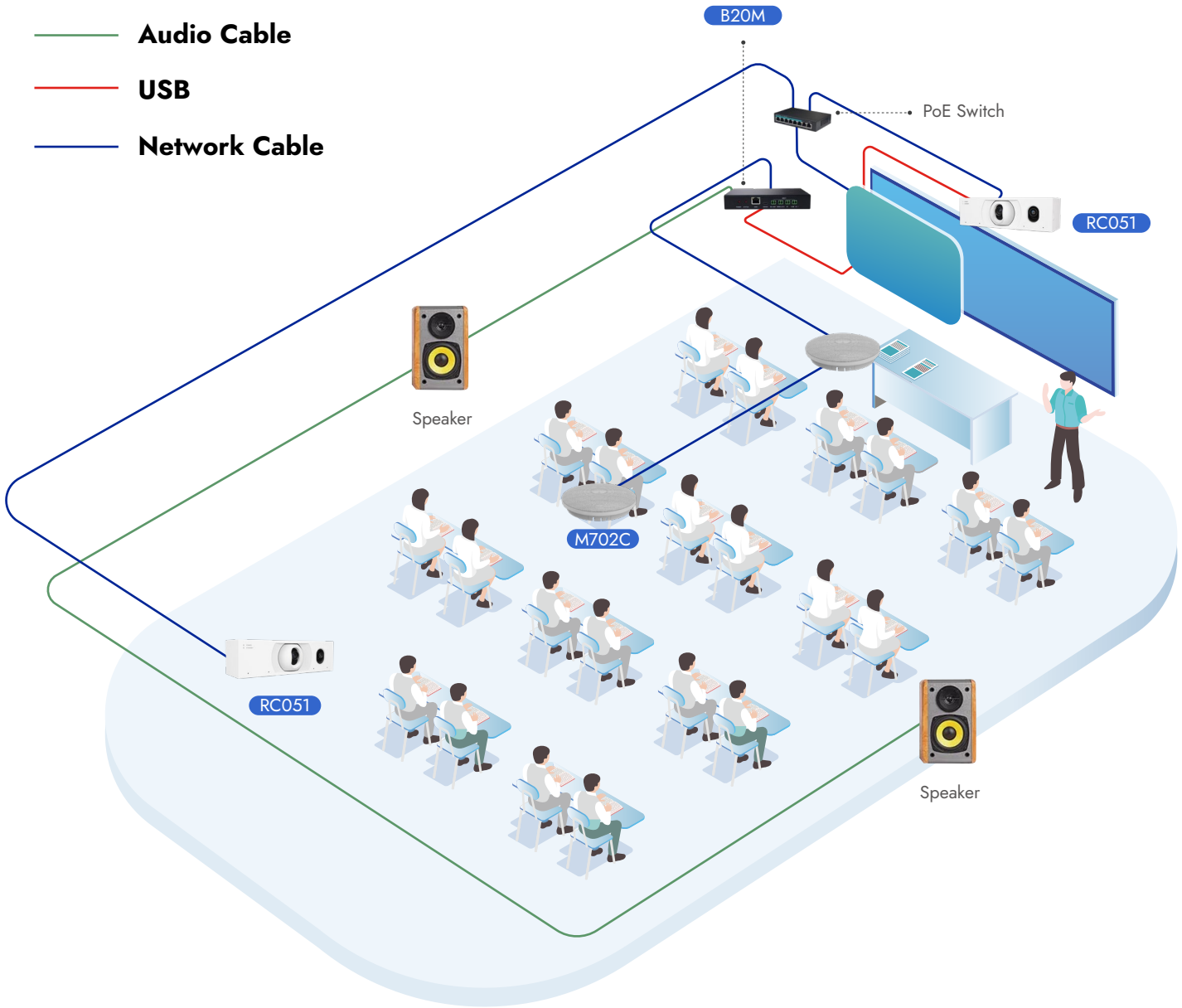
The built-in AI behavior analysis can recognize target behaviors, including facial recognition and other functions. It supports up to 20 behavior analyses and judgments without additional edge computing devices.

INTELLIGENT DIRECTOR



The camera is equipped with AI smart directing algorithms, capable of automatically recognizing various actions of the teacher. With built-in intelligent directing, the camera can automatically switch perspectives without manual intervention, eliminating the need for a directing station.

LIGHTWEIGHT DEPLOYMENT



Classroom Deployment

SUGGESTED SOLUTION



RC031 (Optional)

AI Intelligent Teaching Camera
(teacher/student camera)

- 4K UHD
- Built-in AI Behavior Analysis
- Built-in Automatic Teaching Director
- Built-in Smart Blackboard Writing



RC051

4K Binocular Intelligent Tracking Camera
(teacher/student camera)

- 4K UHD Close-up Lens (Micro PTZ)
- Built-in AI Behavioral Analysis
- Built-in Automatic Teaching Director
- Facial Recognition



M702C

Cascading Omnidirectional Digital Array Microphone

- 6 Omnidirectional Microphones
- 360° Omnidirectional Pickup
- 3m Pickup Distance



B20M

Digital Audio Signal Processor

- Audio Processing
- Audio 3A Algorithm
- Supports up to 6 cascaded microphone inputs

SPECIFICATIONS

RC051

4K Binocular Intelligent Tracking Camera
(teacher/student camera)

- Close-up Lens: 1/2.7 inches, CMOS, effective pixels: 8.29 million
- Close-up Lens: 43° (student camera)
25° (teacher camera)
- Close-up Lens: Micro PTZ, Horizontal ($\pm 40^\circ$), Vertical ($+5^\circ \sim -30^\circ$)
- Panoramic Lens: 1/2.7 inches, CMOS, effective pixels: 4.93 million
- Panoramic Lens: 110° (student camera)
43° (teacher camera)
- Panoramic Lens: (manually adjustable), Vertical $+0^\circ \sim -24^\circ$
- USB Interface: 1 channel, USB 3.0: TYPE-C
- Network Interface: Supports 10M/100M adaptive, Support PoE (802.3af)
Optional support for NDI protocol
- Linear Input Interface: 1 channel, Line In, 3.5mm audio input interface
- Linear Output Interface: 1 channel, Line out, 3.5mm audio output interface
- Power Interface: DC005 type (DC 12V)

M702C

Cascading Omnidirectional Digital Array Microphone

- Microphone Type: Digital Array Microphone
- Microphone Array: 6 Omnidirectional Microphones
- Pickup Distance: 3m
- Sensitivity: -38 dBFS
- Signal Noise Ratio: 65 dB(A)
- Frequency Response: 50Hz - 16kHz
- Audio 3A Algorithm: Support

B20M

Digital Audio Signal Processor

- Network Interface:
 - 1 × Uplink LAN interface;
 - 1 × Downlink cascaded DMIC interface, with up to 6 levels of microphone cascaded
- USB Interface:
 - 1 × DEVICE interface, used as a USB audio device to connect to a USB host (such as a PC);
 - 1 × HOST interface, used as a USB host to connect USB devices
- Audio Interface:
 - 4 × Input Phoenix terminal interface, unbalanced linear audio input;
 - 4 × Output Phoenix terminal interface, unbalanced linear audio output

ROCWARE[®]

Valuable professional



Independent Research and Development

Localized Audio and Video Technology

For 16 years since its establishment, Rocware has adhered to independent research, development and innovation, continuously invested in improvement, and fully mastered the core algorithm technology in the field of audio and video. The entire product line is independently controllable, safe, reliable, and highly competitive.



Own Factory

Complete Self-owned Supply Chain

Rocware has its own factory, it can independently complete part of the mold design and manufacturing, CNC processing, plastic injection molding and other basic material production. It also has an internationally advanced high-speed double-sided PCB SMT line, precision equipment assembly and testing line, to ensure product quality and stable supply.



800-416-1895

Well-developed After-sales Support System

Rocware has set up five major marketing centers around the world, with more than 30 after-sales service outlets. It provides 7*12 hour customer service telephone support, as well as various online and offline technical support and after-sales services to comprehensively ensure the user experience.

Rocware Corporation

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Website