

Interactive Audio Array System

APS-J0502QV2/SV2



Features

- Built-in spherical array positioning tech to identify speaker voice precisely from disturbing sound sources;
- Mono and stereo echo cancellation to achieve non-linear noise suppression at high volume up to 100dB;
- 3D Spatial Audio Algorithms, beamforming technology and Holographic sound field restoration;
- Built-in quad-core A53 1.5GHz processor with beamforming and voice pickup technologies such as AGC, AEC, ANS, AFC to meet various requirements;
- With 3-microphone array, the system supports 120 degree and 360-degree voice pickup;
- Powerful processing performance, it's the perfect solution for different application remote interaction and high-quality class recording;
- Built-in rich interfaces, supports external wireless microphones, and other inputs to achieve automatic fusion of different HD audio sources;
- Easy to install and maintain, and efficiently matches the environment;
- Supports external sound devices, compatible with other local and cloud audio/video systems.

Application

Education: Dedicated Classroom, Hybrid Classroom, Master Teacher Classroom, Lecturer Recording, Demonstration Practice, Surgical Teaching...

Conference: Local Meeting Recording, Remote Meeting Echo Suppression, Hands-Free Sound Pickup, Location Sound Pickup...

Others: Lecture Capture Station, Interactive Terminal, Cloud Meeting Software...

Package A : APS-J0502QV2

Component: 1*Interactive Audio Array Processor+2*Spherical Microphone
APS-J0502+2*AMU-B3XV2
Applicable: Most interactive scenarios

Package B : APS-J0502SV2

Component: 1 *Interactive Audio Array Processor + 1 *Spherical Microphone + 1 *Gun-Type Sector Array
APS-J0502+AMU-B3XV2+AMU-G3S
Applicable: Focus on the sound collection of lecturers and speakers

Technical Data

APS-J0502

Sampling Rate

48kHz

Frequency Response

100Hz ~ 20KHz

Distortion Degree

≤0.1%

SNR

75dB

Acoustic Feedback Gain

≤18dB

Noise Reduction Amplitude

≤30dB

Echo Cancellation

≤90dB

Reverberation Suppression

≤18dB; Echo cancellation length≤1s

Supported Algorithms

AEC, AGC, ANS, AFC and reverberation suppression etc.

AMU-B3XV2

Sensitivity

37dB±3dB

Frequency Response

100Hz ~ 20KHz

Distortion Degree

≤0.1%

SNR

≥70dB

Directivity

Omnidirectional (360 degree omnidirectional pickup)

Microphone Array (Single)

3 φ10mm condenser microphone star array

Pickup Range(Single)

6m*6m

Interface Connector

RJ45, For connection to audio processor
For connection to audio processor

Professional Connector

POE for audio trans

AMU-G3S

Sensitivity

-35dB±3dB

Frequency Response

100Hz ~ 20KHz

Distortion Degree

≤0.1%

SNR

75dB

Directivity

120 degree scalloped Point Pickup

Microphone Array(Single)

3 imported condenser microphones, sector array

Pickup Range(Single)

30 m² fan-shaped pointing area

Microphone Interface

RJ45 interface for connecting microphones and audio processors

Power

DC12V

Power Supply

POE for audio trans