Interactive Audio Array System

APS-J0502QV2/SV2

Spherical Microphone
AMU-B3XV2

Gun-Type Sector Array
AMU-G3S

Front

Back

Interactive Audio Array Processor
APS-J0502

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, Double-Teacher Classroom, Master Teacher Classroom, Regular Recording, Demonstration Practice, Surgical Teaching...

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

Others: Recorder Host, Interactive Terminal, Cloud Meeting Software…

Package A : APS-J0502QV2
Component: 1*Interactive Audio Array Processor+2*Spherical Microphone
APS-J0502+2*AMU-B3X
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-B3X+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, ANC, AFC and reverberation suppression etc.

AMU-B3XV2

Sensitivity
35dB±3dB
Frequency Response
100Hz ~ 20KHz
Distortion Degree
≤0.1%
SNR
≥75dB
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 processorFor connection to audio processor
Professional Connector
Realizes audio transmission and microphone power supply at the same time through the network port

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 ㎡ fan-shaped pointing area (120° straight line 5m)
Microphone Interface
RJ45 interface for connecting microphones and audio processors
Power
DC12V
Power Supply
Realize audio transmission and microphone power supply at the same time through the network port