Interactive Audio Array System

APS-J0502Q/S

Spherical Microphone
AMU-B3X

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, ANC AEC 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: education and training classes;

Conference: local and remote meetings, Large lecture halls, Corporate boardrooms, Corporate training rooms etc.;

Others: Auditoriums, Museums, hospitals, command centers, briefing centers etc.

Package A : APS-J0502Q
Component: 1*array interactive audio Processor+2*(With Connector and Canon head audio line)
APS-J0502+2*AMU-B3X Applicable: Most interactive scenarios

Package B : APS-J0502S
Component : 1 *Array Interactive Audio Processor + 1 *Spherical Star Array Microphone
(with connector and Canon Cable) + 1 *Shotgun Sector Array Microphone
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-B3X

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
6-pin XLR head for connecting special connector and ball mic; RJ45, For connection to audio processorFor connection to audio processor

Professional Connector
Indicator light: green light on: normal work; light off: not connected

Interface: 6-pin XLR head for connecting special connector and ball mic; RJ45 interface for connecting audio processors

Power supply and transmission: Super five twisted pair shielded cable 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)

Operating Temperature
-10°C ~ +50°C

Storage Temperature
-20°C ~ +70°C

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