S-Track NAJA A301 Array Microphone

Quick Guide

Thank you for choosing the NAJA A301 array microphone. This guide will take you through the use of this product.

1.Product Introduction

1. The NAJA A301 is an array microphone which consists of 6 silicon microphones and uses unique digital signal processing algorithms: echo cancellation (AEC), noise cancellation (ANC), beamforming (BF), and reverb (De-reverb) to ensure that occupants can move around the space while still achieving high-quality sound.
2. Noise cancellation: effectively suppresses environmental noises. Within the pickup radius, the occupants can move freely, standing, sitting and other movements, that does not affect the sound quality.
3. This device is suitable for sound processing with multiple pickup sources (Maximum pickup distance is 5 meters) with interactive occupants. Will obtain high quality pickup and high-quality interactive echo cancellation as a result.
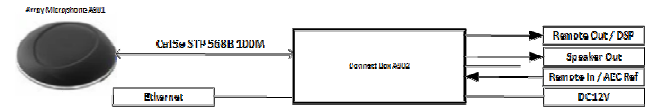4. This product is plug and play with no parameters to adjust.

2.   Technical Parameters

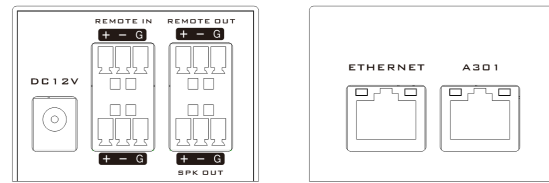| Model No.	NAJA A301(AM600)
Product Type	Array Microphone
Pick up distance	<= 5 Meters
Digital microphone	6
Accuracy of positioning	$\pm 10^{\circ}$
SNR(Signal to Noise Ratio)	>65dB
Working voltage	DC 12V
Data transmission format between microphone and connect box	Digital signals
Angle of the sound source	360。
Built-in digital signal processing algorithm	AEC、ANC、AGC、De-reverb、BF、DoA

Size	Φ123*30mm
Max power consumption	1.5W

3. Product Connection:

NAJA A301 System Connection Diagram:

NAJA A301 Interface Description:

REMOTE OUT: MIC (balanced) Level/Line Level (-10 dBV)

REMOTE IN: AEC REF IN MIC(balanced)/Line Level (-10 dBV)

SPK OUT: MIC (balanced)/Line Level (-10 dBV)

- A301 microphone: Use standard CAT5e STP cable 568B standard termination.   Maximum distance of 100m (**Notes:** The port is only for communication between microphone and D/A connection box)
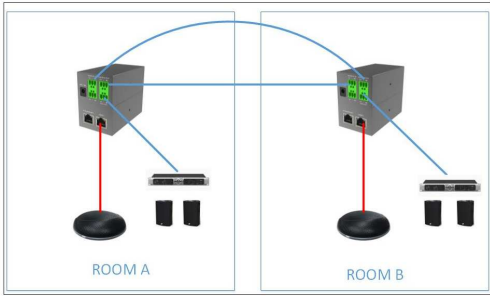- ETHERNET: Standard net port, reserved for upgrade.

4.Packing List

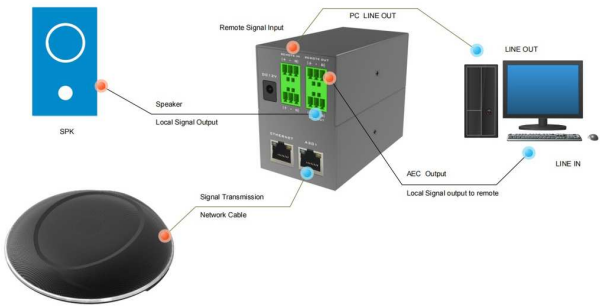| A301 Array microphone	A302 Connect Box	Adapter 12V/1A	QC Card	Quick Guide
1 Piece	1 Piece	1 Piece	1 Piece	1 Piece

ROOM A ROOM B

5.Precautions:

In order to ensure the reliable use of the equipment and safety of personnel, please follow instructions below when installing, using and maintaining:

1. The device is intended for commercial use.
2. Adhere to all applicable, local codes when installing this device.
3. Do not disassemble, modify or attempt to repair the device to avoid the risk of electric shock, malfunction or fire.
4. Do not subject the device to heavy impact to avoid electric shock, malfunction or fire.
5. Do not put the device in a location where it is in direct sunlight, near heating sources, high humidity, or high concentrations of dust to avoid electric shock, fire, malfunction, etc.
6. Do not handle the product with wet hands to avoid electric shock or injury.
7. Do not use any aerosol spray, cleaner, disinfectant on, near or into the device.
8. Do not spill any corrosive chemicals or liquids on or near the equipment.
9. Be sure not to pinch or damage cable when installing.
10. It is strongly recommended to use with a mic pre-amp or a DSP.
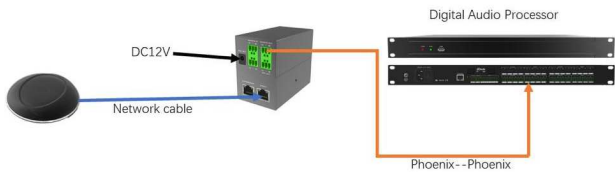
Stand-alone using internal AEC

6.Illustrations

Stand Alone System with DSP

Inter-room using internal AEC without DSP

7.Warranty Card:

Date of production：
Model No.：
Serial No.：