

## DSP1501

### 100W Phased Array Column Speaker



#### Description

DSP1501 Phased Array Column Speaker adopts electronic and digital processing technology (DSP) to adjust the main beam radiation direction. Unlike the conventional one, DSP1501 phased array column speaker provides flexible adjustment of column directivity (vertical radiation angle) on a web-based operation page; The built-in digital equalizer can improve sound quality effectively. As it is defined by good sound quality, high performance, easy operation and installation, it is widely used in a variety of sound reinforcement occasions.

#### Features

- Directional adjustment in 3 directions.
- Active column with built-in digital power amplifier.
- Compatible with 3 common line signal inputs and 1 fixed voltage amplifier power signal input (70V  $\pm 10V$ ).
- Built-in volume, balanced processing adjustment.
- Wire/wireless beam sense of direction modulation control via a Web controller.

#### Specifications

Model	DSP1501
Line Input Sensitivity (Optional)	300 (-10dB) / 500 (-06dB) / 1000 (00dB) mV
Constant Voltage Input Sensitivity	70 ( $\pm 10$ ) (-10dB) V
Max. SPL (1m)	105 $\pm$ 2dB
Number of Speaker Units	10 PCS
Speaker Unit Size	4 Inch
Amplifier Rated Output Power	$\geq 10$ W

(Per Channel) Amplifier Output Noise (Per Channel)	<1 mV
Distortion (Within the frequency range, under normal operating conditions)	<0.5 %
Graphic Equalizer Frequency Points	125/200/315/500/800/1.25k/1.6k/2k/2.5k/3.15k/ 4k/5k/6.3k/8k/10K (15 bands in total) Hz
Equalizer Adjustment Amplitude	±10 dB
Frequency Response:	80-18k (±3dB) Hz
Horizontal Radiation Angle	> 120 Degree
Vertical Radiation Angle	<50 Degree
The Main Beam Adjustable Range (Vertical)	±45 Degree
Grid Adaptation Capacity	AC100-270V /50-60Hz
Package dimensions: (L × W ×H)	1505×265×280 mm
Dimensions (L × W ×H)	1365×132.5×145.5 mm
Gross weight	20 kg
Net Weight	16.5 kg

## Direction Curve

(1) 30m flat venue, with downward focus length as 6m, 15m, 26.5m and wall mount height 5.5m



Figure 1: 3 SPL distribution map for preset positioning

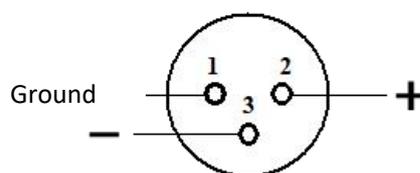
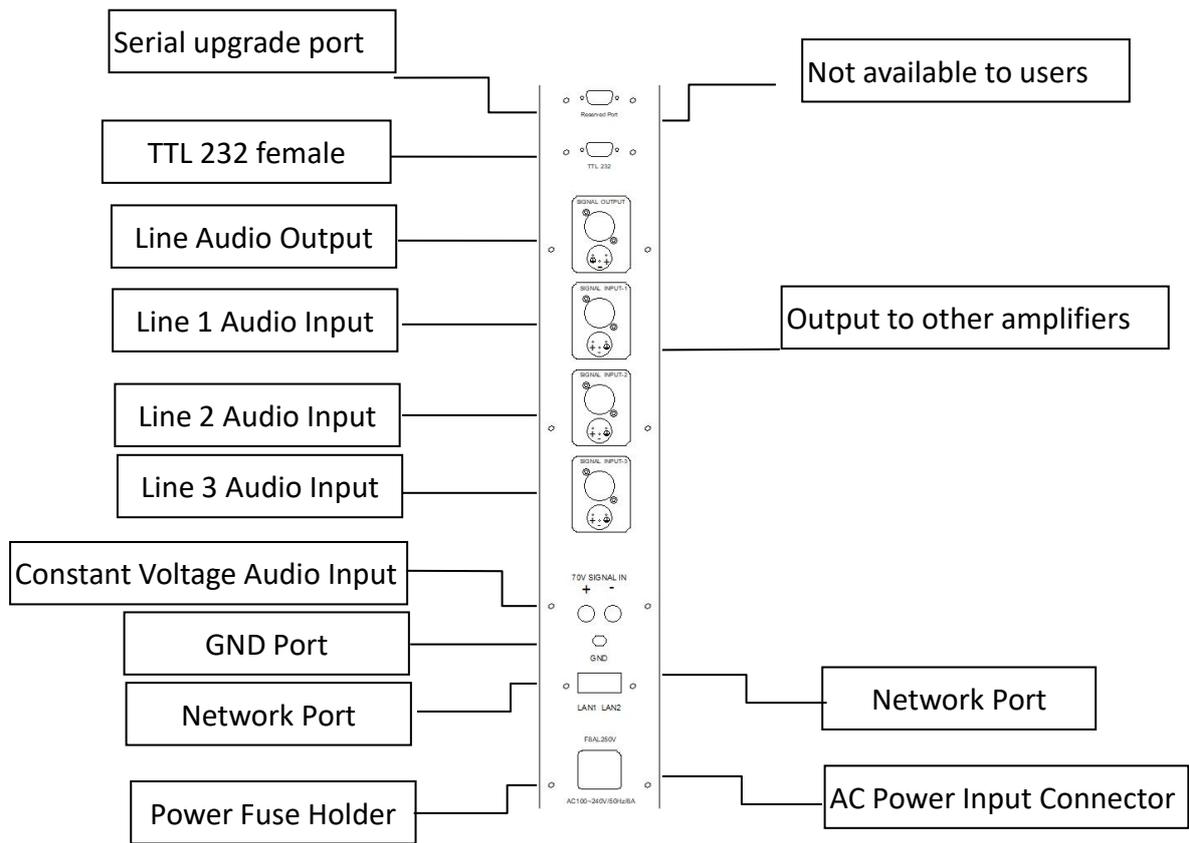
# Installation Diagram



(DSP1501)

Please refer to the actual product

## Instruction on the Back Connectors



XLR Connection