Waterproof Column Speaker

www.dsppatech.com

:::DSPPA

DSP255Ⅱ
DSP455Ⅱ

:::DSPPA

User's Manual

●For Black and White

Contents

Item \ Model	DSP255II	DSP455II
Speaker unit	3"×2, 2"×1	3"×4, 2"×1
Rated power（RMS）	30W	60W
Freq. Response	140Hz-20kHz	140Hz-20kHz
Sensitivity(1m,1W)	87±3dB	89±3dB
Max SPL(1m)	102±3dB	107±3dB
Dimension(L×W×H)	376×109×102mm	606×109×102mm
Net weight	3KG	4KG

Packing List

Component	Quantity
Speaker	2
Bracket	2
Manual	1

Introduction

Thanks for using our speaker. All of our products are tested directly before leaving the factory, with guaranteed quality.

Our speaker are widely used in school, gymnasiums, square halls, garden, parking, railway station, airport, villa, supermarket and so on. They will be your best choice for public address system.

For better installation, commissioning and use of products, please read this manual in details before installation
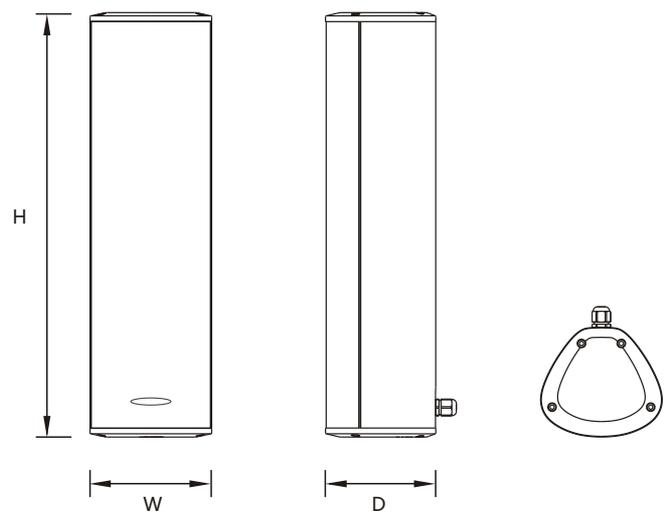
Product features

The speakers are made o f aluminum alloy housing, with a fine, with surface UV Anti-ultraviolet paint treatment, with a strong textured appearance and capable of providing professional levels.

The sound performance can meet the demanding requirements of the site.

- Outdoor design, waterproof unit, suit for outdoor and indoor.

- Small and elegant appearance, suit for all kind of decoration place.

- With 3 "Gray polypropylene drum paper full frequency cone-type bass unit and 2" treble unit combination, frequency response wide, bass level clear, treble clear and bright.

- With power tap, independently adjustable, multiple choices of input mode.

- Solid aluminum alloy box, not easy to deformation and rust.

- E type pure copper wire audio transformer to ensure fidelity of audio output.

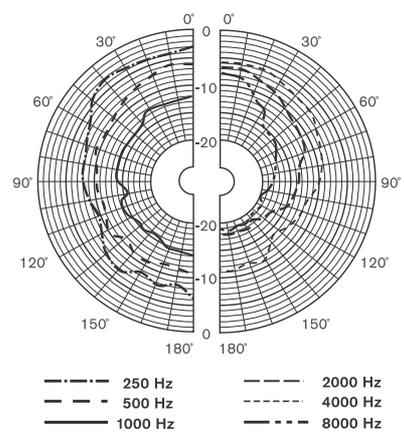- Equipped with multifunctional mounting bracket, convenient installation

Product information

Model	H	W	D
DSP255Ⅱ	376	109	102
DSP455Ⅱ	606	109	102

(Unit : mm)

Bottom view

Waterproof joint

Power adjustable knob
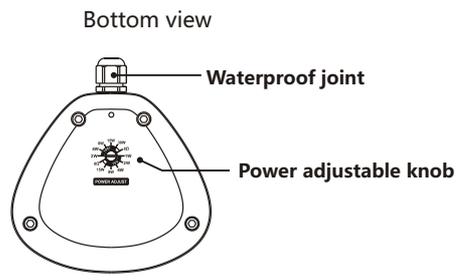
Voltage	DSP255Ⅱ	DSP455Ⅱ
70V	1W-2W-4W-8W-15W-8Ω	2.5-5W-10W-20W-30W-8Ω
100V	2W-4W-8W-15W-30W-8Ω	5W-10W-20W-40W-60W-8Ω
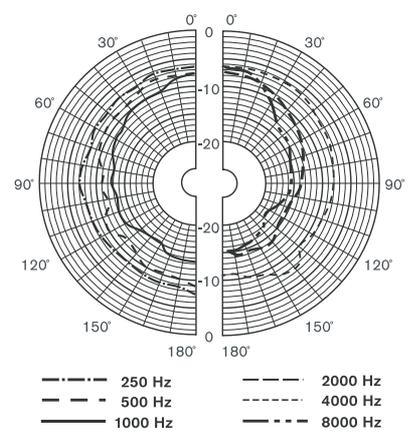
250 Hz		2000 Hz
500 Hz		4000 Hz
1000 Hz		8000 Hz

DSP255Ⅱ Vertical directivity pattern

250 Hz		2000 Hz
500 Hz		4000 Hz
1000 Hz		8000 Hz

DSP255Ⅱ Horizontal directional pattern

250 Hz		2000 Hz
500 Hz		4000 Hz
1000 Hz		8000 Hz

DSP455Ⅱ Vertical directivity pattern

250 Hz		2000 Hz
500 Hz		4000 Hz
1000 Hz		8000 Hz
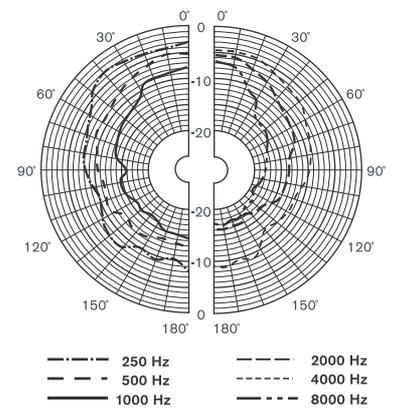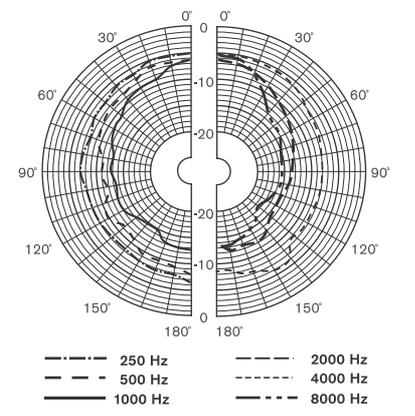
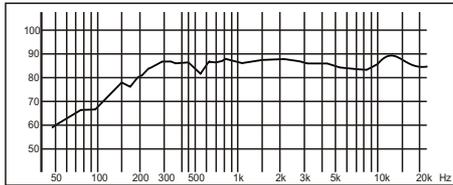**DSP455Ⅱ Horizontal directional pattern**

⑤ Connect audio broadcast transmission line; adjust power knob according to requirement.

White---70V/100V

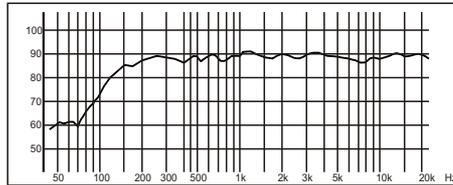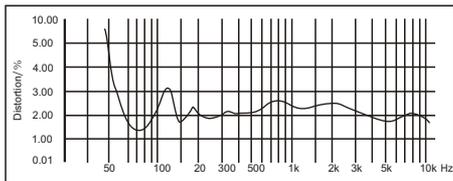Red---COM

8W
15W
30W
4W
8Ω
2W
1W
8Ω
2W
15W
4W
8W

POWER ADJUST
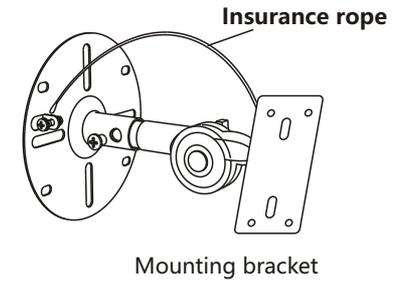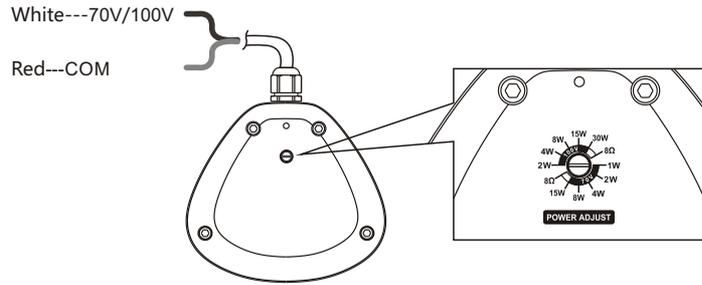
Technical parameter

DSP255II Freq.Response
(dB SPL、1W、1m)

100
90
80
70
60
50

50   100   200 300 500   1k   2k   3k   5k   10k   20k   Hz

DSP455II Freq.Response
(dB SPL、1W、1m)

100
90
80
70
60
50

50   100   200 300 500   1k   2k   3k   5k   10k   20k   Hz

DSP255II Distortion
(THD< 5% 1W、1m、100Hz-10kHz)

10.00
5.00
4.00
3.00
2.00
1.00
0.01

Distortion/%

50   100   20 300 500   1k   2k   3k   5k   10k Hz

DSP455II Distortion
(THD< 5% 1W、1m、100Hz-10kHz)

10.00
5.00
4.00
3.00
2.00
1.00
0.01

Distortion/%

50   100   20 300 500   1k   2k   3k   5k   10k Hz

Insurance rope
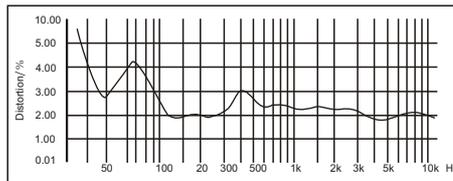
Mounting bracket
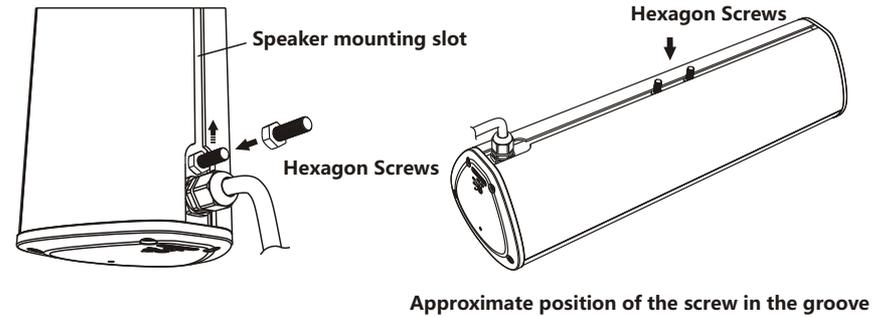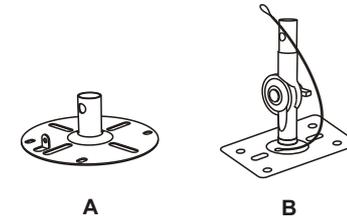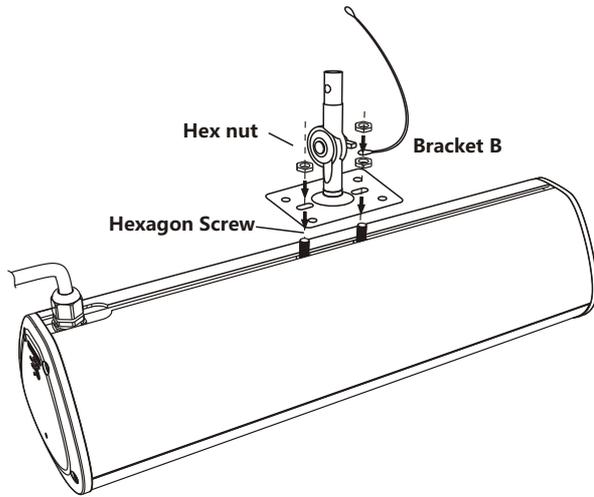
Installation

① Split the mounting bracket into A, B, two parts. Fit two six point screws into the mounting slot of the

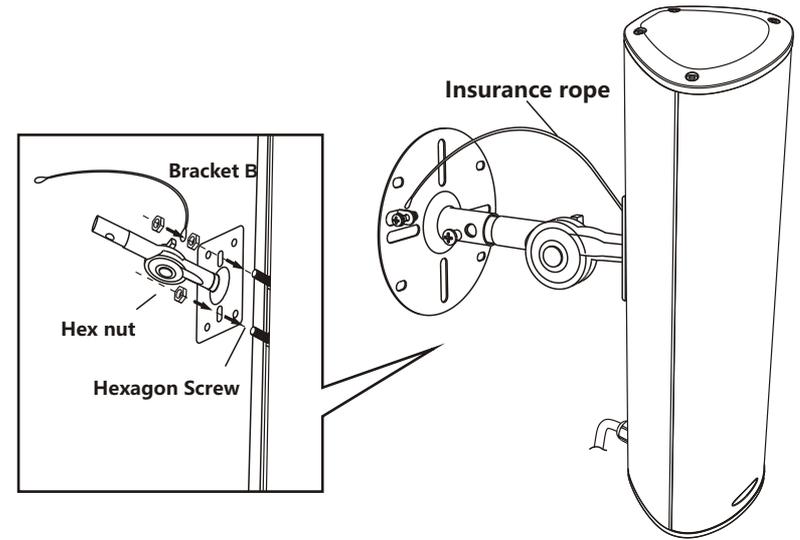Speaker's back (parallel to the column to help fit the screws)

! When placing speakers horizontally, be careful not to touch and load the front of the speaker net with hard facing, otherwise it will deform the front net.

A   **B**

Hexagon Screws

Speaker mounting slot

Hexagon Screws

Approximate position of the screw in the groove

② Fix the bracket B with the two screws. Please make sure that the position of the bracket B needs to be installed and then lock the nut

Hex nut

Bracket B

Hexagon Screw

③ As shown in the following figure, bracket part A is fixed on the wall where the speakers need to be installed (the screws of the fixed bracket assembly A are owned).

Wall

Bracket A

④ Fix the bracket B on the back of the speaker and the bracket A on the wall. Adjust the upper and lower angles of the loudspeaker first, then screw the knob tightly.

Insurance rope

Bracket B

Hex nut

Hexagon Screw
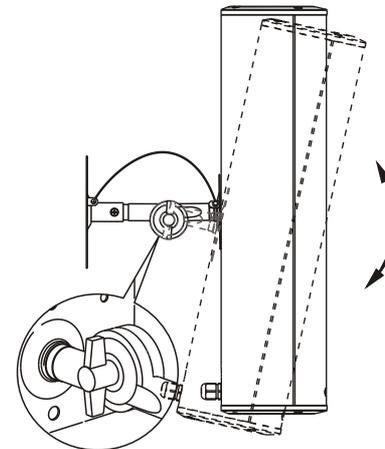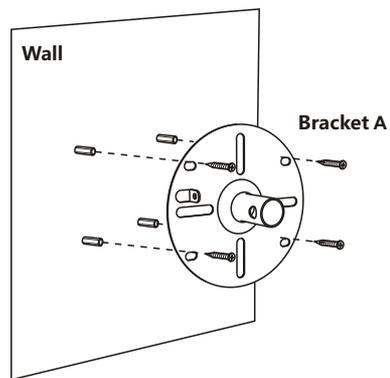
Adjustable speaker suspension angle