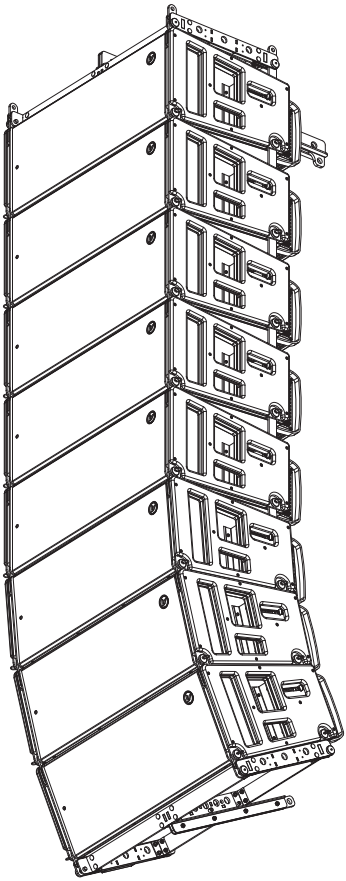


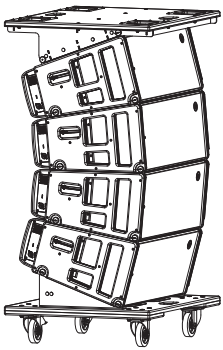
IWAC220P *ACTIVE SYSTEM*
IWAC220iP / IWAC220iPW

用户手册/User'/manual

www.verityaudio.fr

Closer to music!

SPECIFICATIONS



P/N:
060200000183000 (IWAC220P-4UVTS)
060200000148000 (IWAC220P)

IWAC220P is a full frequency vertical linear array loudspeaker which is composed of dual 10"mid-low frequency and dual 1.73"compression driver.
It has professional installation design and easy to use, with excellent phase and frequency response which make you have impressive experience even in far field Module have the design with H120°xV10°frequency coverage angle,independent external active amplify module drive, maxoutput up to 138dB with single module.4 independent channels of power amplifier drive its 4 speaker drive, because of use the same module that can achieve consistent group delay Built-in DSP processor for easy use. Birch plywood cabinet with CNC manufacturing process. A patented auto-locking mechanism allows the selection of angles while components are on the ground, Almost four times the installation efficiency of similar products, even one person can install.
IWAC220P will have good performance when it works with SUB136TP.

Electroacoustic

Input sensitivity:1v
Short term max SPL:>138dB
(Peak level at 1 m under half space)
Frequency Range:LF:80~3.2kHz HF:1.5k~18kHz
Frequency Response:80~18kHz(-10dB)
Electric power:100~240V/AC 50~60 Hz
Diffusion Angle:H120°xV10°(1 Box)
Speaker Drivers:
LF:2x10"Neodymium driver (V.C:2.5"8Ω)
HF:2xNeodymium compression drivers
(V.C:1.73";Throat:1";8Ω)
Amplifier:2x860W+2x230W@8Ω CLASS D
Cooling:Natural convection
Processor:24 Bit DSP
DSP Max Delay:5ms(1.7m);
10 bands PEQ;Q:0.2-25 adjustable;
Bes/BW 6~24dB /oct & L-R 12~24dB/oct Optional
Bell/Notch/Hi-shelf/Lo-shelf/All Pass Optional

Connector

2x***NEUTRIK***® PowerCon®
2x***NEUTRIK***®XLR
DSP control:USB-B

Cabinet

CNC made 15mm birch wood sandy wear-resisting environmental polyurea spray paint

Hanging side frame

Auto-locking Suspension System
Laser processing steel plate joining together with black paint Have 4PCS Ø10 stainless steel

Application

Minimum 1,maximum 12 units line array

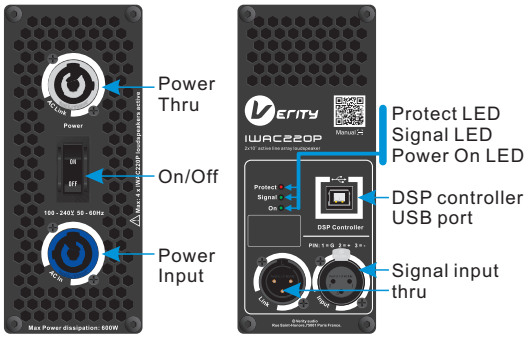
Product Dimensions

IWAC220P:W742xH287xD513mm
IWAC220P-4UVTS:W810xH1370xD660mm

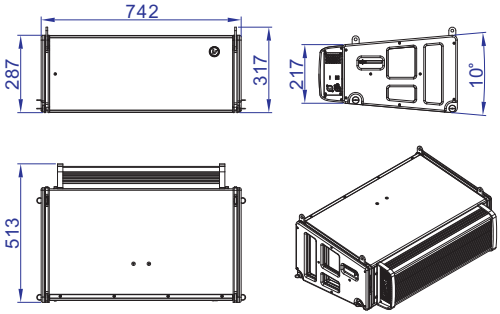
Weight:

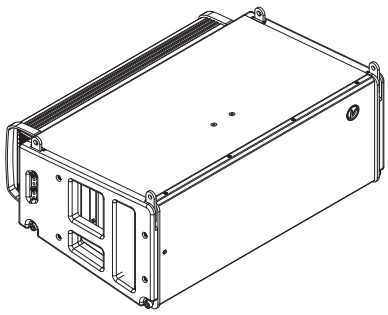
IWAC220P:42kg(1 box)
IWAC220P-4UVTS:204kg

Connection pannel:



Recommended crossover point:
LF:90Hz ; HF:1.8~2kHz (>18dB/oct)





P/N:
060200000174000 (IWAC220iP)
060200000175000 (IWAC220iPW)white

IWAC220iP is an active full-range two-way line array loudspeaker composed of dual 10-inch mid-bass and dual 1.73-inch high-frequency units.
The i version is a product specially designed for fixed installations.
Has consistent acoustic performance with the touring version.It has professional installation design and easy to use,with excellent phase and frequency response which make you have impressive experience even in far field Module have the design with H120°xV10°frequency coverage angle, independent external active amplify module drive, maximum output up to 137dB with single module.The product is available in two colors, black and white, birch plywood cabinet with CNC manufacturing process, emery spraying craft
It can be installed at a big angle and is the best choice for fixed installation of sound reinforcement application in all kinds of medium and large venues.
IWAC220iP will have good performance when it work with SUB136P

Electroacoustic

Input sensitivity:1v
Short term max SPL:＞138dB
(Peak level at 1 m under half space)
Frequency Range:LF:80~3.2kHz HF:1.5k~18kHz
Frequency Response:80~18kHz(-10dB)
Electric power:100~240V/AC 50~60 Hz
Diffusion Angle:H120°xV10°(1 Box)
Speaker Drivers:
LF:2x10"Neodymium driver (V.C:2.5"8Ω)
HF:2xNeodymium compression drivers
(V.C:1.73";Throat:1";8Ω)
Amplifier:2x860W+2x230W@8Ω CLASS D
Cooling:Natural convection
Processor:24 Bit DSP
DSP Max Delay:5ms(1.7m);
10 bands PEQ;Q:0.2-25 adjustable;
Bes/BW 6~24dB/oct & L-R 12~24dB/oct Optional
Bell/Notch/Hi-shelf/Lo-shelf/All Pass Optional

Connector

2x***NEUTRIK***® PowerCon®
2x***NEUTRIK***®XLR
DSP control:USB-B

Cabinet

CNC made 15mm birch wood sandy wear-resisting environmental polyurea spray paint

Hanging side frame

Laser processing steel plate joining together with black paint
Equipped with 8x(M6x12)/4x(M10x25) screws

Application

Minimum 1,maximum 12 units line array

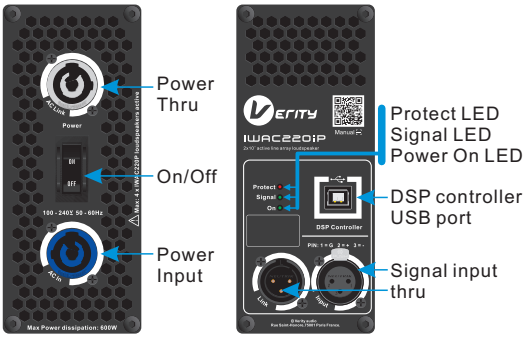
Product Dimensions/Package Dimensions

W730xH287xD514mm/W840xH625xD390mm

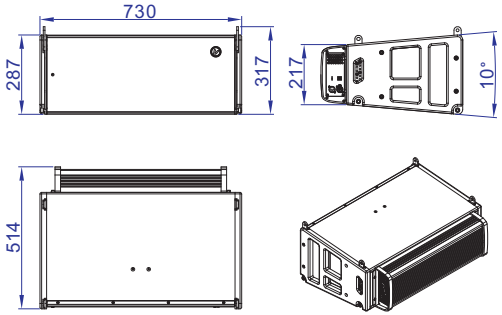
N.W/G.W:

32.5kg / 41kg

Connection pannel:

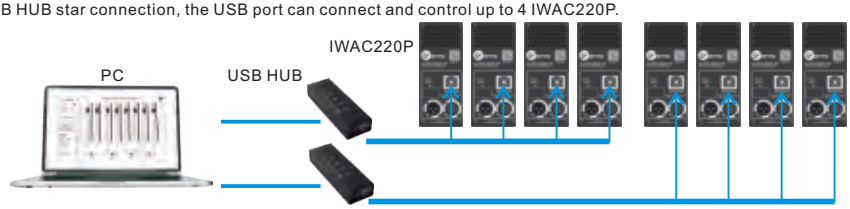


Recommended crossover point:
LF:90Hz ； HF:1.8~2kHz (>18dB/oct)

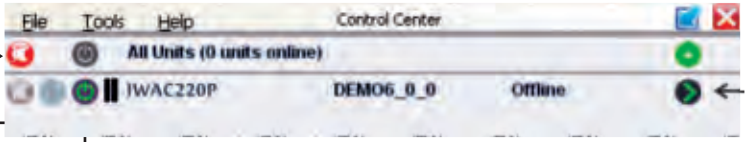


DSP Software guide

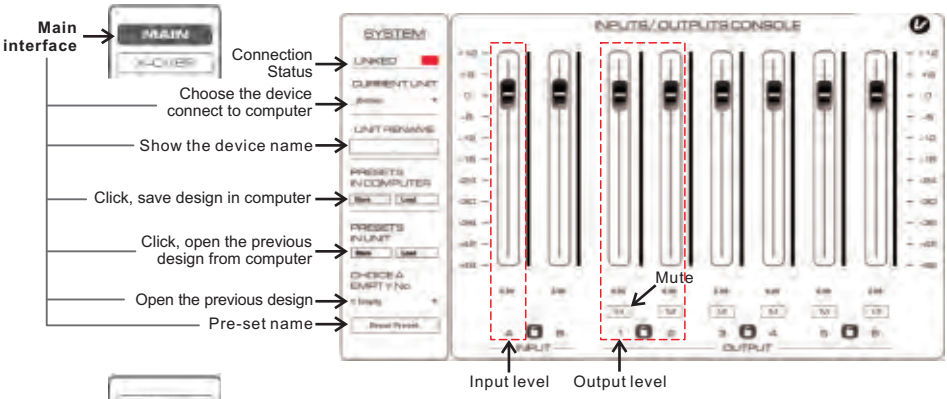
Device connection:
With USB HUB star connection, the USB port can connect and control up to 4 IWAC220P.

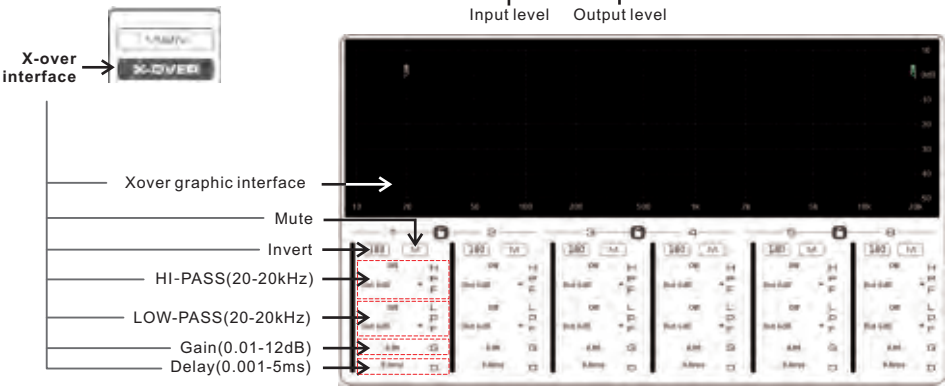


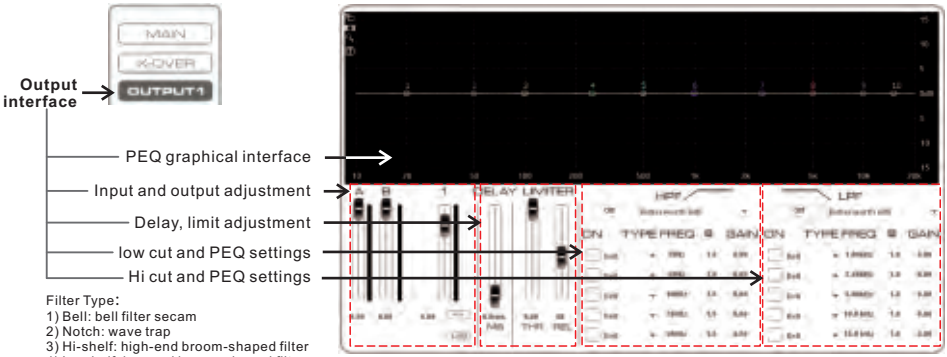
Equipment state control panel



DSP Control dialog (hardware preset for A channel input and 1&2 channel output)







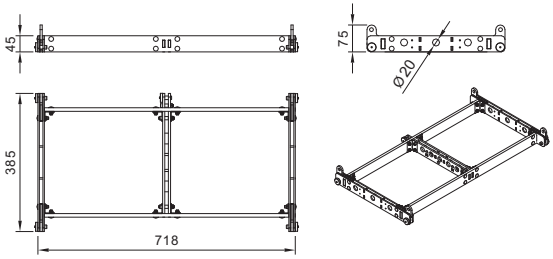
Filter Type:
1) Bell: bell filter secam
2) Notch: wave trap
3) Hi-shelf: high-end broom-shaped filter
4) Lo-shelf: low-end broom-shaped filter
5) All Pass: all pass filter

ACCESSORIES

IWAC220-FF(Array flying frame)

This flying frame is the main part to hand the IWAC220 or IWAC220i,which can use as auxiliary frame when it used in large angle situation,it must use the ANSI 5/8"shackle to link electric hoist.

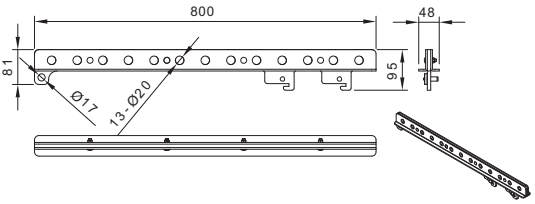
N.W:9.1kg **P/N:** 060800000061000



IWAC220-EB(Array frame extension bar)

The extend bar is designed to extend the hanging point of flying frame.It is recommended to use this part when the bending angle>30°.it must use the ANSI 5/ 8" shackle to link electric hoist.

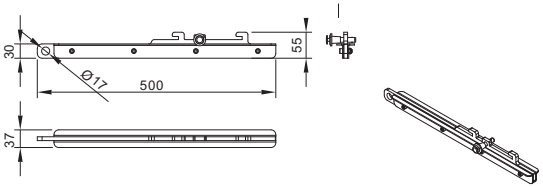
N.W:5.3kg **P/N:** 060800000060000



IWAC220-PR(Flying frame pull rod)

IWAC220-PR flying frame pull rod
the special design for iwac220p flying frame it's specially used to extend the role of flying frame after installing flying frame at the bottom of line array.

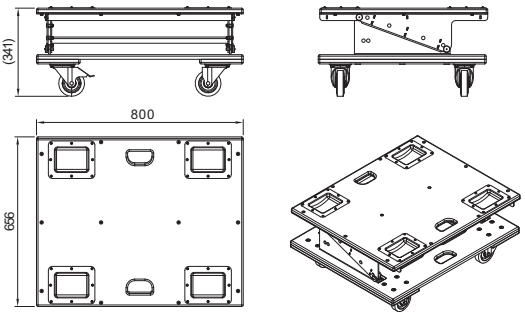
N.W:1.8kg **P/N:** 060800000064000



IWAC220-VT(Vertical transporter)

The IWAC220-VT is the special designed transporter to carry 4 units IWAC220;it is also the basic guarantee for the whole group fast and easy to hand.

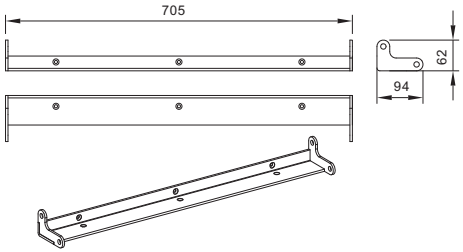
N.W:33.3kg **P/N:** 040300000013100



IWAC220-136-SA (Stack adapter)

The part is designed for ground stacking with SUB136(T)

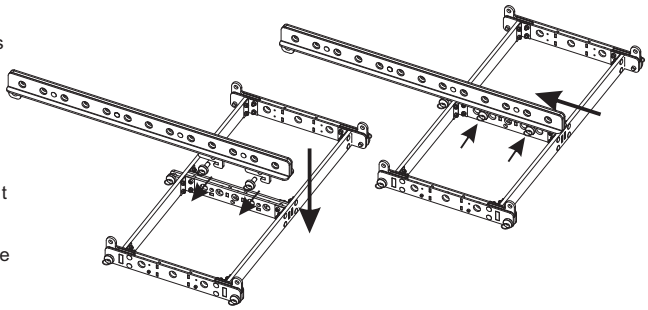
N.W:2.4kg **P/N:** 060800000067000



IWAC220-EB install

It needs to install extension rod because the center of gravity moves backward When the number of speakers over 4 pcs,and install the hoisting suspension at the relative point of balance. According to the picture shown in the right sidle,it need put the IWAC220-EB into the middle of the flying frame then lock it with the magnet pin.

IWAC220-PR is installed in the same way on the bottom of flying frame.



IWAC220P slide frame

The patented slide frame design allows it to use 4 speakers as a group to hang at the preset angle.These not only reduce labor costs, but also improve installation efficiency.

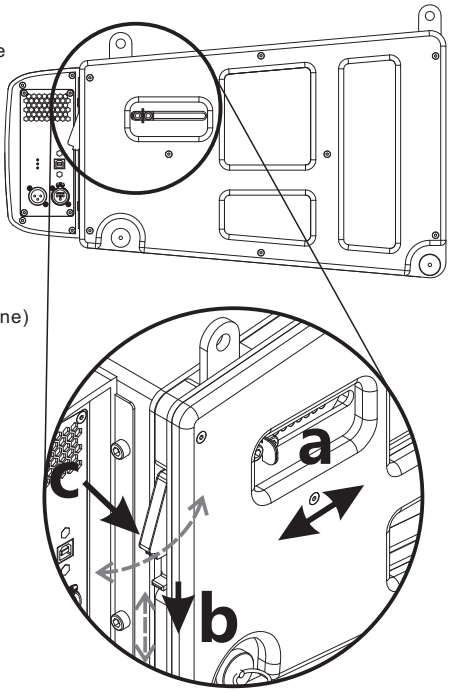
a:Limit slider to preset the suspend
(each slide frame have on)
put the rod on the limit slider to select the angle you need

Be sure to set the same angle in the left and right sideframes. If they are different, it will endanger personal safety because imbalance load on both sides

b/c:Rear connection rod limit lock(each slide frame have one)

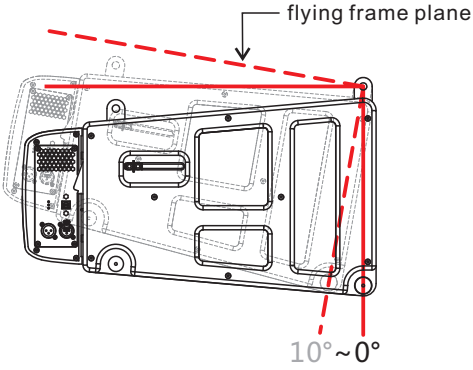
b:press=unlock **c**;**c**:press=lock,eject=unlock **c**;

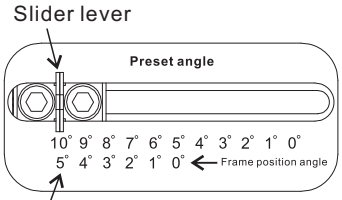
The Reset & Limit device mainly function is restrict the connecting rod only move in the single direction when it stretch out



The graphic of angle

0°:The front side of line array speaker is
Vertical to flying frame(Ground)
1°- 10°:The tilt angle of line array speaker
to flying frame (Ground)
It can be set to 0~5°when the first cabinet is hang with the flying frame





The preset angle when the first cabinet is connected to the flying frame

Hanging installation:

①Move one set cabinets to theright place and remove top coverof the VT.

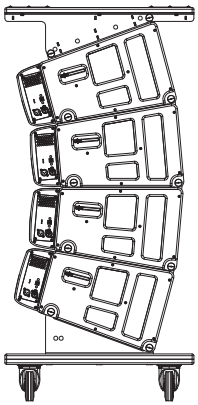
②Fixed the Flying Frame and Extension bar to the cabinet and preset the angle of each cabinet.

③Suspension the electric hoist (Select the suspension position.It very important) This pointdetermines the final angle of the entire linear array. It is generally recommended to choose betweenthe two holes in the middle of the extension bar. It can also use twoshackles to hang two adjacent holeswhich makes it easier to adjust thehorizontal angle.

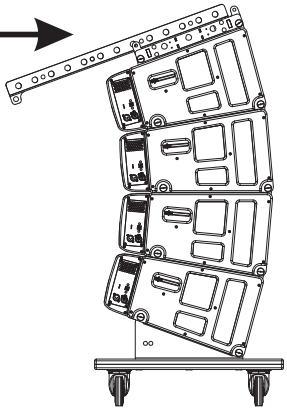
④Lift the electric hoist make thecabinets off the ground and remove the bottom part of the VT.

⑤Lift the first cabinets group and move the second cabinets group below the first array cluster, and then carefully lower the suspended cabinets group when front attachment points come together and use the magnet pin locked it.

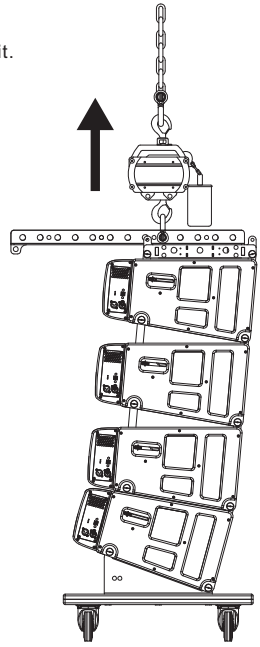
⑥After front attachment points is locked carefully lower suspended cabinets group until the rear attachmentpoints come together and use themagnet pin locked it.



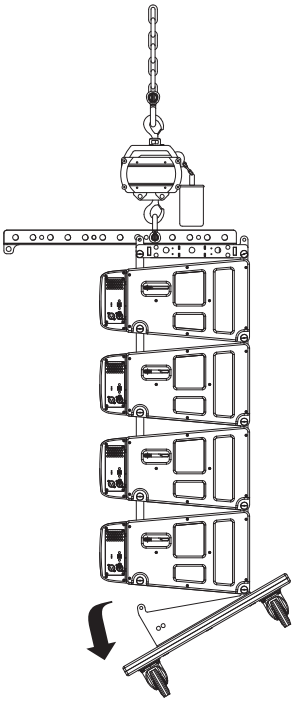
Move the cabinet group to a hanging position



Installation flying frame and extension rod



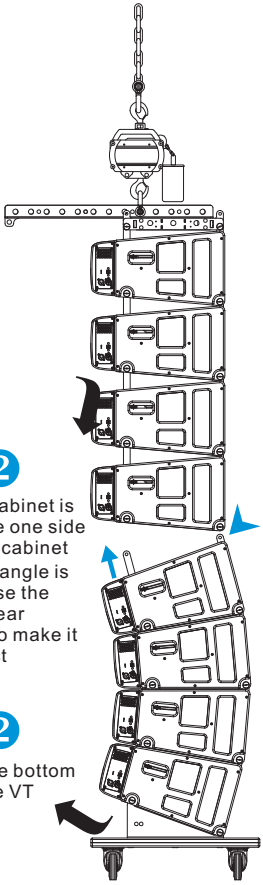
Choosing the right lifting point to raise the cabinet group through electric hoist



Remove the bottom part of the VT

Suspension skill:

It can use hand to pull up the bottompart of the VT and make the secondcabinets group cabinet rear attachmentpoints close the rear attachment pointsof the first cabinets group cabinet,it need be careful about the safely when pull up the second cabinets group cabinet.



2

The first group cabinet is lower it will make one side of second group cabinet off ground.If the angle is large, you can use the hand to pull up rear connecting rod to make it easier to connect

2

Pull up the bottom part of the VT

Next set of Loudspeakers installed

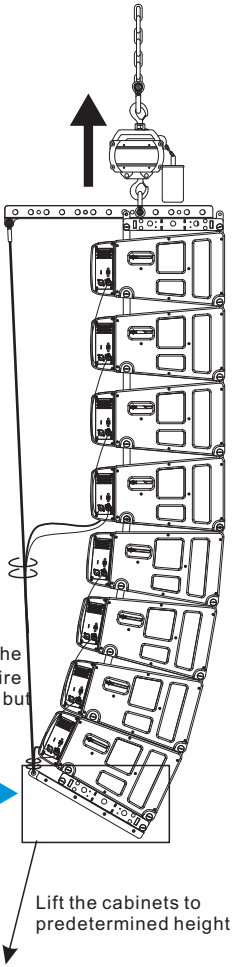
It must to use auxiliary rope to share the weight of cables When cabinets suspended in high sky

1

Fixed the front attachment points of first group cabinet and the second group cabinet

3

Assemble the flying frame on the last cabinet。it must be use wire rope to keep it in right position but not allow to tighten cabinets directly by wire rope

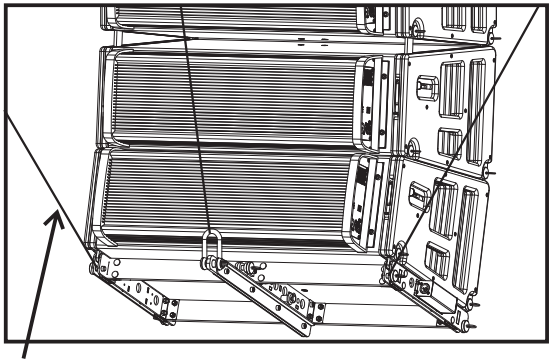


Lift the cabinets to predetermined height

The importance of assemble flying frame at the bottom

①Special design flying frame for Horizontal radiation angle.it must be use wire rope to keep it in right position but not allow to tighten cabinets directly by wire rope

②It can use as flying frame when it work in large angle

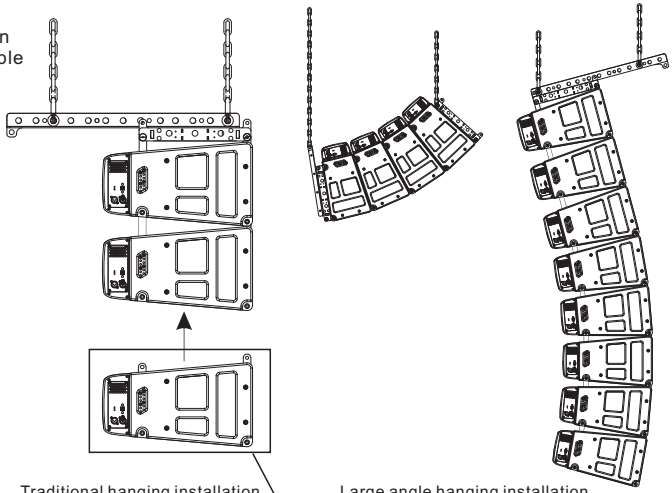


Using wire rope to adjust the appropriate horizontal angle

INSTALLATION

Fixed installation:
IWAC220i(W)is the special design for fix installation and it have simple and reliable characteristic

It is the same flying frame as tour version but each cabinet need install like traditional way

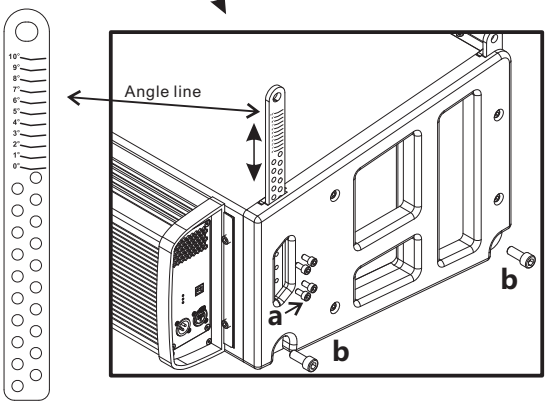


Traditional hanging installation

Large angle hanging installation

①Adjust the rear connection rod:
Remove screw **a**,pull out connection rod and adjust the angle what it need and lock it with screw **a**

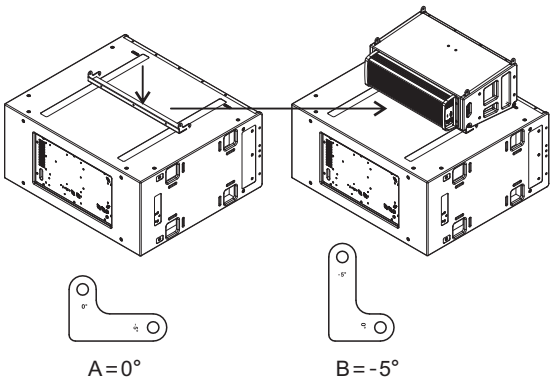
Be sure to set the same angle in the left and right side frames



②Cabinet installation
Remove screw **b** and then connect the front and rear connecting rod and fix it by screw **b**

Stacked installation:
It can apply for tour version and installation version
①Remove the M6 screw on top panel.
②The first cabinet angle is depending on the SA position as below picture picture A 0°,picture B - 5°.
③Stacking and installing IWAC220 one by one and use screw or magnet pin to lock it.

Maximum stacking units:
We recommend not exceed 4 cabinets to stacking because of the center of gravity of the whole stack.



A=0°

B=-5°

Verity Audio reserves the right to make any changes to the product specifications without prior notice.
Final specifications to be found in the user manual.