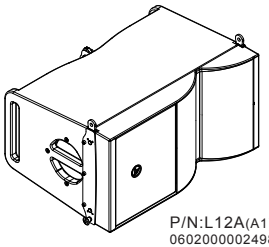
# Specification



P/N:L12A(A1)
060200000249801 L
060200000250801 R

L12A is a compact, full-range 2-way line array loudspeaker featuring integrated DSP and Class-D amplification.

► Transducer Configuration:LF: 12" neodymium magnet driver with aluminum frame / 3.5" copper-clad aluminum flat wire voice coil.HF: Neodymium magnet titanium diaphragm 3" compression driver with 1.4" throat diameter.

► Portable & Mobile Friendly:It has a width of 64.5 cm and a net weight of only 28.5 kg. The loudspeaker is fitted with 5 carry handles, light enough for an adult to lift with one hand.

► Refined Acoustic Architecture:The enclosure is constructed from full birch plywood, paired with an unequal-diameter port bass reflex acoustic structure. It delivers lower group delay and optimized enclosure tuning, achieving premium sound performance from a compact 12" cabinet.For superior acoustic output, it adopts core high-frequency acoustic technologies including full-size cone-cut cylindrical wave equalizers, combined with a horizontally variable directivity non-perforated dispersion horn. The waveguide opening is designed flush with the cabinet height to ensure perfect physical summation. The large horn aperture enables frequency control down to below 800 Hz.The steel grille incorporates a proprietary anti-vibration phase plate, allowing seamless mid-frequency summation between multiple sound sources.The cabinet surface is finished with a matte thickened polyurea coating applied via high-temperature adhesion, offering excellent surface hardness, outstanding waterproof, UV anti-sun and abrasion-resistant properties.

► Innovative 3-Point Rigging Structure:The waveguide openings are aligned with a tangent curve angle adjustment design. When adjusting the curvature angle, the physical stacking gap of the line array high-frequency waveguide will not be altered by differing angles between cabinets. This ensures even sound field coverage at both near and far listening distances, with precise acoustic summation delivered to the audience area.The rigging system is designed for easy single-person operation. It can be vertically assembled in groups of three with the L12A-VT flight case, with preset ground curvature angles that lock automatically after hoisting, enabling safe and fast rigging installation.If on-site curvature parameter adjustment is required, the L12A-BP back pull frame and chain hoist can be used for direct adjustment under load, without lowering the array for rework.

► Integrated Drive Module:It consists of a digital power amplifier with a peak power of 2500W+800W and a 32-bit/192 kHz DSP. The DSP is embedded with IIR, FIR and other modules for host computer control, which further corrects phase response to achieve optimal acoustic summation performance.The connectors feature an IP65 fully sealed hole-free design, allowing outdoor operation without an additional external rain cover.Four factory preset scene modes are stored onboard, switchable via front panel touch keys without PC connection for tuning. For advanced control, it can network with a wireless router to perform online tuning over a TCP/IP local area network.An online polling indicator is fitted on the front of each cabinet, enabling software-based device calling for controlled units.

► Comprehensive System Compatibility:Two subwoofer models are available. The L18A is purpose-built for seamless integration with the L12A, a subwoofer supporting forward and reverse rigging that can form a cardioid directional sub-bass array as required. It is only 50 cm tall with a net weight of 42.5 kg, loaded with an 18" neodymium driver with a 4" voice coil.The SUB28A is a floor-standing active dual 18-inch subwoofer with long-throw transducers and dual-module drive.The multi-functional accessory design reduces the total number of required fittings. The L18A can be floor-stacked directly with the L12A for many applications that do not require suspension rigging.For more powerful sub-bass output for large-scale events, the SUB28A subwoofer is recommended. The matching L12A-BP 3-in-1 bracket allows stacking L12A line array cabinets on top, with adjustable projection angles on demand.



Neo magnet


Rainproof Design



Preset curvature Auto-lock


Tow flared ends vents


Panflex 70/90/110


Perfect line sound source

**Performance:**
Maximum Linear SPL(1):>138dB(AES75)
Maximum SPL(2):>142dB( ≈40m preset)
Usable bandwidth:46~18kHz

**Coverage Pattern:**
Vertical:10° Trapezoidal | Varies with array size and configuration
Horizontal:70° | 110° symmetric or 90° asymmetric
IP Rating:IP54 | IEC 60529

**Transducer Configuration:**
LF:1×12"Neodymium cone driver | V.C:3.5" | 8Ω | 1400Wprogram
HF:1×3"Titanium diaphragm | Neodymium | T.D:1.4" | 8Ω | 200Wprogram

**Acoustical load:**
LF:Bass-reflex with tow flared ends vents
HF:Plane waveguide with Pan-flex technology

**Power Module:**
Audio Input(2):+17 dBu Max, +4 dBu Nominal @ 20 kΩ (XLR balanced)
Power Output(peak):2500W(LF)+800W(HF)@8Ω | THD+N:<1%PFC Class-D
AC Input:AC96~265V/50~60 Hz Adaptive
AC Power Consumption(3):2A@230V | 4.7A@100V
Cooling:Convection, external aluminum heatsink internal on-demand fan
Processor:32bit I/O up to a sample rate of 192 kHz | 139 dB DNR
Signal Processing:24Bit/96k sample rate | IIR | FIR filters | Delay | limiters
Panel:4mm aluminum plate CNC | Non-porous touch panel
Display LED:Network | Signal | Clipping | Protection
Preset | Front call LED indicator(soft control)
Control Interface:TCP/IP(Windows PC only)

**Connectors**(IP65 Rated)**:**
AC Power Input:Dual powerCON TRUE1(Inlet/Outlet)
Audio Input:Dual 3-pin XLR(In/Thru)
Networking:Dual etherCON(RJ45 In/Thru)

**Physical:**
3-point captive rigging system,5 handles,quick release Ø10pins, steel with anti-corrosion coating;
Preset the curvature Angle on the ground and lock it automatically;
Curvature Angle adjustment technology for physical alignment of tangent waveguide surfaces;
Phase plate resonance elimination technology;
Inter-enclosure Angle (deg):0.25°, 1°, 2°, 3°, 4°, 5°, 7.5° 10°;

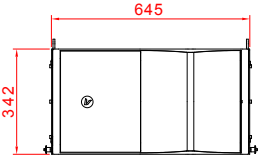
**Application:**
Rigging:Minimum 2,maximum 16 units line array(AX12-AF only)
Stacking:Minimum 1,maximum 6 units line array(AX12-AF or AX12-BP)

**Cabinet:**
Polyurea coating;Premium birch plywood;2mm Coated steel grill;Acoustically neutral 3D fabric; logo rotatable;The left and right structures can be distinguished through assembly;

**N.W:**28.5kg | 62.8lb **G.W:**32.5kg | 71.7lb

Dimensions (W × H × D):645x342x450mm (25.4x13.5x17.7inches)
Package size (L × W × H):570x460x740mm(28.7x18.1x29.1inches)

Recommended maximum operating frequency range. Response depends on loading conditions and room acoustics.
(1)Measured Maximum Linear SPL at 1m according to AES75 standard using 18dB crest factor M-Noise.
(2)Measured Maximum SPL at 1 m under full space using burst noise.
(3)1/8 power is representative of current draw with typical music program material with occasional clipping.
Specifications subject to change without prior notice.



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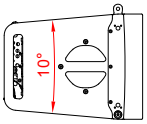


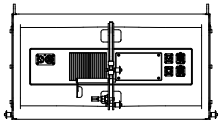

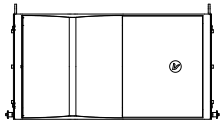
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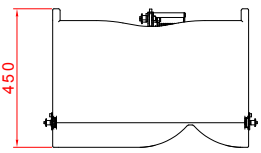
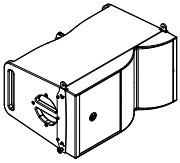
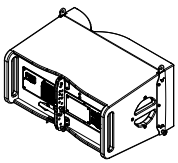


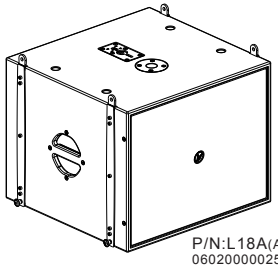





**Remarks:**

The product is defined to distinguish between left and right at the time of leaving the factory. In actual use, if users need to modify it, they can also change the appearance of the left and right completely without any additional accessories.

## Specification



P/N:L18A(A0)
060200000253800



Rainproof Design




Neo magnet



Cardioid array



Tow flared ends vents

**L18A** is a compact subwoofer system with integrated DSP and Class-D amplification, optimized for suspension applications.

► **Loudspeaker Configuration:** Equipped with an 18" neodymium magnet speaker with an aluminum frame and a 4" voice coil, housed in a birch plywood enclosure with an unequal-port bass reflex structure.

► **Portable for Mobile Applications:** Compact and small-sized, fitted with two pull handles. It is only 64.5 cm in width and weighs just 42.5 kg, bringing great convenience for mobile rigging and installation.

► **Refined Detail Design:** The steel grille is fitted with a proprietary anti-vibration phase plate structure to eliminate resonance noise from the grille. The 4-point symmetric rigging design allows forward/reverse stacking or suspension mounting. It can be directly hung with the L12A-FSA mounting bracket, or via the L12A-FF hanging adapter bracket. The cabinet surface adopts a matte extra-thick polyurea coating with high-temperature adhesion, delivering excellent surface hardness, outstanding water resistance, UV resistance against sun exposure and abrasion resistance.

► **Flexible Array Combination:** It can be configured into a cardioid radiation array as required. Each cabinet is only 50 cm tall; stacking three units reaches a total height of just 1.5 meters. For standard installation, a cardioid stacked array of 3 pcs L12A plus 3 pcs L18A is recommended.

► **Rainproof Design Module:** The built-in 32-bit/192 kHz DSP digital signal processor supports IIR|FIR modules and PC upper computer control. The connectors adopt an IP65 fully sealed hole-less design, enabling outdoor open-air operation without an extra rain cover. The unit has 4 factory preset scene modes, switchable via the panel touch keys without computer programming. For advanced control, it can form a network with a wireless router for online tuning via TCP/IP local area network. An online polling indicator is mounted on the front of each cabinet, which allows targeted device calling via software for controlled units.

► **Multi-functional Application:** The 18" driver is powered by a Class D amplifier with a peak power of 2500W. An extra channel with 800W peak power is independently output via the NL4 speaker connector for connecting conventional passive loudspeakers. It can be combined with standard 35mm speaker poles to build a full-range audio system.

**Performance:**
Maximum Linear SPL(1):>136dB(AES75)
Maximum SPL(2):>140dB( 120 preset)
Usable bandwidth:35~250Hz
Coverage Pattern:Omni or Cardioid (subwoofer array configuration)
IP Rating:IP54 | IEC 60529

**Transducers:**
18"Neodymium cone driver | V.C:4" | 8 Ω | 2000Wprogram

**Acoustical load:**
Bass-reflex with tow flared ends vents

**Power Module:**
Audio Input(2):+17 dBu Max, +4 dBu Nominal @ 20 kΩ (XLR balanced)
Power Output(peak):2500W+800W@8Ω | THD+N:<1%PFC Class-D
AC Input:AC96~265V/50~60 Hz Adaptive
AC Power Consumption(3):2A@230V | 4.7A@100V
Cooling:Convection, external aluminum heatsink internal on-demand fan
Processor:32bit I/O up to a sample rate of 192 kHz | 139 dB DNR
Signal Processing:24Bit/96k sample rate | IIR | FIR filters | Delay | limiters
Panel:4mm aluminum plate CNC | Non-porous touch panel
Display LED:Network | Signal | Clipping | Protection
Preset | Front call LED indicator(soft control)
Control Interface:TCP/IP(Windows PC only)

**Connectors**(IP65 Rated):
AC Power Input:Dual powerCON TRUE1(Inlet/Outlet)
Audio Input:Dual 3-pin XLR(In/Thru)
External full range loudspeaker:NL4(1±)
Networking:Dual etherCON(RJ45 In/Thru)

**Physical:**
4-point captive rigging system,2 handles,quick release Ø10 pins,
steel with anti-corrosion coating;Phase plate resonance elimination technology;
AX12 Stacking & Ø35+M20 support;

**Application:**
Rigging:maximum 12 units array(AX12-AF only)

**Cabinet:**
Polyurea coating;Premium birch plywood;2mm Coated steel grill;
Acoustically neutral 3D fabric;

**N.W:**42.5kg | 93.7lb **G.W:**48.8kg | 105.4lb

Dimensions (W×H×D):645x500x600mm (25.4x19.7x23.6 inches)
Package size (L×W×H):758x718x613mm(29.8x28.3x24.1 inches)

Recommended maximum operating frequency range. Response depends on loading conditions and room acoustics.
(1)Measured Maximum Linear SPL at 1m according to AES75 standard using 18dB crest factor M-Noise.
(2)Measured Maximum SPL at 1 m under full space using burst noise.
(3)1/8 power is representative of current draw with typical music program material with occasional clipping.
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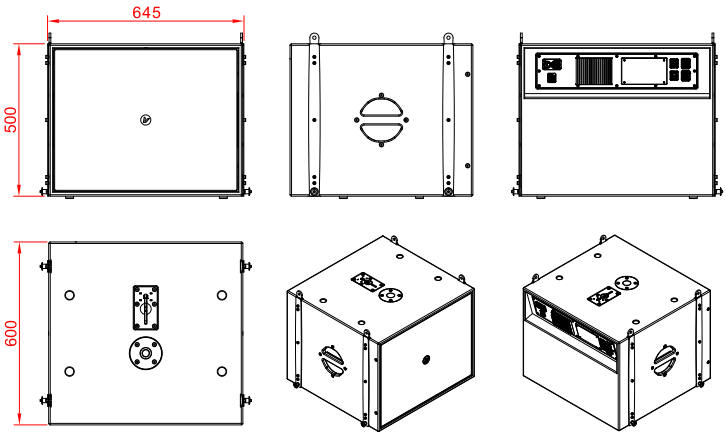


## L12A-AF(A1)

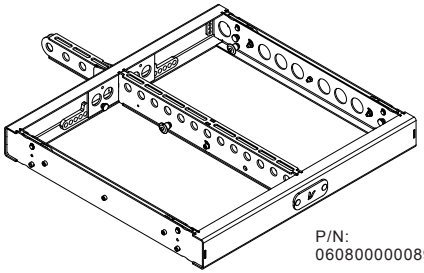
Array Frame for L12A and L18A

**Highlights:**

- ▶ Compact and lightweight design
- ▶ Compatible with L12A and L18A
- ▶ Enables ground stacking L12A arrays
- ▶ Precision pick-point resolution
- ▶ Extension Bar 2 in 1 design



Bow shackle
size: 5/8"(3.25t)
Not included in the package



P/N:
060800000089001

**WLL:**600kg | 1323lb

**N.W:**13kg | 28.7lb **G.W:**14.5kg | 32lb

**Dimensions**(mm):W651 x H76 x D600(The main beam is extended by 200mm)

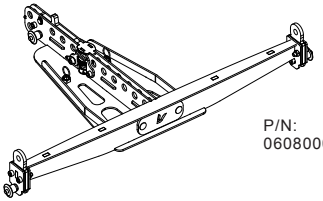
**Package size**(mm):L840 x W665 x H98

## L12A-BP(A0)

Base Plate | Array Frame | Pull Back for L12A

**Highlights:**

- ▶ 3 in 1 Versatile lightweight design
- ▶ Array Frame for L12A support for up to 6 cabinets
- ▶ Pull-back accessory for L12A
- ▶ Stacking L12A arrays on the SUB28A | Angle range: ±5°



P/N:
060800000093000

**WLL:**200kg | 440lb

**N.W:**4.8kg | 10.6lb **G.W:**5.9kg | 13 lb

**Dimensions**(mm):W644 x H58 x D400

**Package size**(mm):L680 x W430 x H120

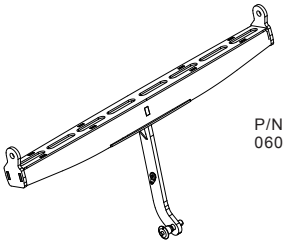


Bow shackle
size: 3/8"(1t)
Not included in the package

## L12A-FSA(A0)

Flyable Subwoofer Adapter for L12A L18A

- ▶ For hooking in flown configuration between L18A and L12A



P/N:
060800000094000

**WLL:**150kg|330lb

**N.W:**3kg | 6.5lb **G.W:**3.5kg | 7.7lb

**Dimensions**(mm):W634 x H50 x D268

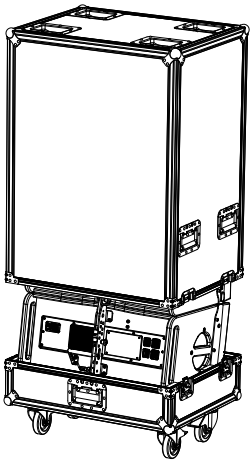
**Package size**(mm):L660 x W330 x H73

## L12A-VT(A0)

Vertical Transporter for L12A

**Highlights:**

- ▶ Road case for (3) L12A speakers
- ▶ Truck-friendly dimensions
- ▶ Built-in stacking features for easy storage
- ▶ 4" Premium rubber casters



P/N:
060800000088000

**N.W:**30kg | 66lb **G.W:**114kg | 253lb(Flight Case for (3) L12A)

**Package size**(mm):W600 x H1260 x D723(Height with casters)