

SL Series User Guide

• SL3000 • SL412 • SL2.15



The Future of Sound. Made Perfectly Clear.

At KV2 Audio our vision is to constantly develop technologies that eliminate distortion and loss of information providing a true dynamic representation of the source.

Our aim is to create audio products that absorb you, place you within the performance and deliver a listening experience beyond expectations.

Important Safety Instructions

Before using your SL Series, be sure to carefully read the applicable items of these operating instructions and the safety suggestions.

- 1. Read all product instructions.
- 2. Keep printed instructions, do not throw away.
- 3. Respect and rewiew all warnings.
- 4. Follow all instructions.
- 5. Do not use this unit near water, in unprotected out door areas or in rain or wet conditions.
- 6. Clean only with dry cloth.
- 7. Do not block any ventilation openings.
- 8. Install in accordance with KV2 Audio's recommended installation instructions.
- 9. Do not install near any heat sources such as heat radiators, heat registers, stoves or other apparatus that produce heat.
- 10. Do not defeat the safety purpose of the grounding type plug. A grounding type plug has two blades and a third grounding connector. The third connector is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 11. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles. The AC mains plug or appliance coupler shall remain readily accessible for operation.
- 12. Only use accessories specified by KV2 Audio.
- 13. Install the product only with rigging specified by KV2 Audio, or sold with the loudspeaker.
- 14. Unplug this loudspeaker during lightning storms or when unused for long periods of time.
- 15. Refer all servicing to qualified service personnel. Servicing is required when the loudspeaker has been damaged in any way, such as when the power-supply cord or plug has been damaged; liquid has been spilled or objects have fallen into the loudspeaker; rain or moisture has entered the loudspeaker; the loudspeaker has been dropped; or when for undetermined reasons the loudspeaker does not operate normally.
- 16. Do not remove front or back panels. Removal of the panel will expose hazardous voltages. There are no user serviceable parts inside and removable may void the warranty.
- 17. An experienced user shall always supervise this professional audio equipment.

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE PANELS. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.

WARNING: To prevent fire or electric shock, do not expose this equipment to rain or moisture.

SAFETY SUMMARY

To reduce the risk of electric shock, disconnect the loudspeaker from the AC mains before installing audio cable. Reconnect the power cord only after making all signal connections. Connect the loudspeaker to a twopole, three- wire grounding mains receptacle. The receptacle must be connected to a fuse or circuit breaker. Connection to any other type of receptacle poses a shock hazard and may violate local electrical codes. Do not allow water or any foreign object to get inside the loudspeaker. Do not put objects containing liquid on or near the unit. To reduce the risk of overheating the loudspeaker, avoid exposing it to direct sunlight. Do not install the unit near heat-emitting appliances, such as a room heater or stove. This loudspeaker contains potentially hazardous voltages. Do not attempt to disassemble the unit. The unit contains no user serviceable parts, repairs should be performed only by factory trained service personnel.

SL Series \cdot Contents

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Introduction SL Series

The SL412 and SL2.15 speakers incorporate an eye catching, slim, stylish cabinet design. Designed to integrate either externally through simple wall mounting, suspension, ground stacking, or internally into walls and surfaces. These units can be designed and supplied with custom colors, grill templates and logos, offering a flexible and true designer integration product. Using KV2 Super Live Audio technology, the SL412 loudspeaker utilizes 4 x 12" low mid-range components and the proven and highly respected horn assembly from the VHD1.0 with a single 8" mid-range and 3" large format NPVD compression driver. This mid-high horn has an extremely coherent-wide horizontal dispersion of over 110 degrees whilst the purpose designed 4 x 12" configuration dramatically reduces the most common problem of immediate reflections within the 300 to 800Hz range usually associated with wide dispersion loudspeakers. The end result is a full and wide sound propagation exactly where it is required. Whilst the SL412 can be utilized with any of KV2's wide range of subwoofer systems depending on the actual application, the accompanying SL2.15 utilizes the same slim line design to allow for an aesthetically pleasing and acoustically punchy system that can virtually disappear against a wall. The SL2.15 incorporates 2 x 15" speakers in a specially designed shallow cabinet to output maximum bass response.

This manual contains important information on operating the SL system correctly and safely. Please take some time and read this manual to familiarize yourself with the advanced features of this system.

The SL3000 Amplifier is a three-way, active control and amplification systems, specifically designed for the KV2 Audio SL series loudspeaker systems. It houses all signal processing and amplification as well as providing control for external subwoofer cabinets configurations, and to operate additional subwoofer cabinets if needed. External subwoofers are powered by the external subwoofer amplifier (VHD3200).

In most cases it would be advisable to use a KV2 Audio Line driver (LD4) in addition at the mixer end to ensure that the line to the amplifier is driven correctly and the signal integrity maintained. Although this system is simple to operate, improper use can be dangerous. This is a very high-powered device that can put out high voltages and sizeable currents. Always use safe operating techniques with the SL series system.

SL3000 · Overview





SL AMPLIFIER - RACK MOUNTED SL3000 - part number KVV 987 280 (250V) KVV 987 279 (230V) KVV 987 278 (115V)



Application

Specifically designed as the amplification and control elements for the SL loudspeaker systems in a 4RU mount module

- Fixed installation
- Nightclubs
- Multi-use venues
- Large bars

Introduction

The SL3000 Amplifier is a three-way, active control and amplification system specifically designed for the KV2 Audio SL Series modular loudspeaker systems. It houses all signal processing and amplification as well as providing control external subwoofer cabinet to run further subwoofer cabinets if needed. External subwoofer is powered by the external subwoofer amplifier. The SL3000 Stereo Amplifier drives and controls one SL412 per channel and follows the typical KV2 holistic approach of matching components with high quality electronics for true direct performance. All time alignment, phase correction and equalisation is provided onboard.

Features

The amplifier compliment inside the SL3000 Amplifier is as follows:

- High Frequency 100-watt, Class AB, push pull, low intermodulation design
- Mid Frequency 200-watt, Class AB, push pull, low intermodulation design
- Bass 1000-watt, high-efficiency, current-enhancing switch mode technology with Linear Active Filter

Unpacking

Unpack the SL3000 Amplifier and check to see if there is any damage to it. If you find any damage notify your supplier immediately. Only the consignee may institute a claim with the carrier for damage incurred during shipping. Be sure to save the carton and all packing materials for the carrier's inspection. Should you ever need to ship the unit, only use the original factory packaging. If the shipping carton is unavailable, contact your supplier to obtain a replacement.

The SL3000 Amplifier carton should contain:

- SL3000 Amplifier control unit
- User guide
- Two PowerCon detachable power cables

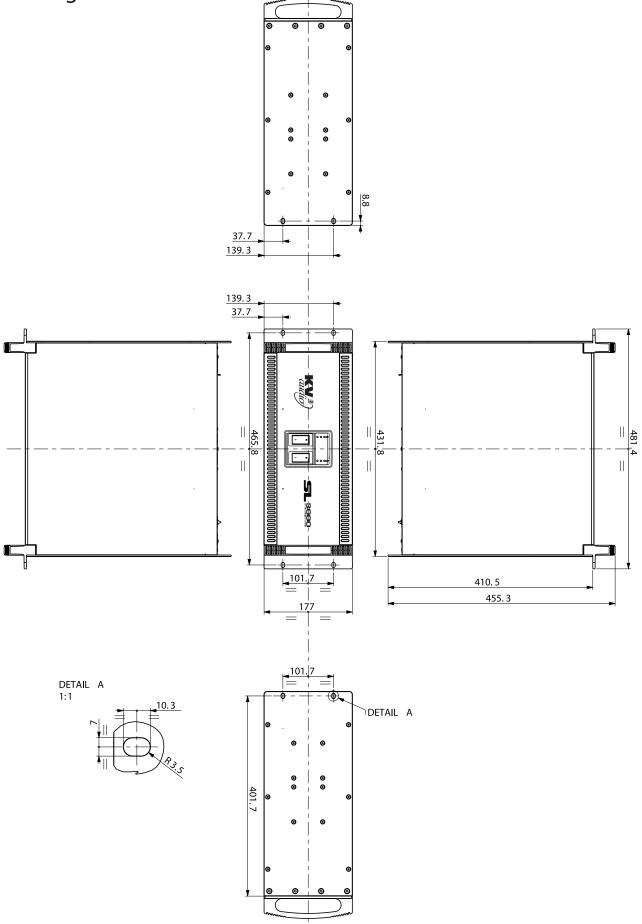
Amplifier rack mounting

The SL3000 Amplifier will mount in standard 19" rack systems. Integral rear mounting rack ears are also provided for additional support, do not rely on fixing and mounting the amplifier using just the front panel as support. Use eight screws and washers to mount the amplifier to the equipment rack rails. We recommend using a shock mounted rack for touring use to prolong the life of your amplifier.

SL3000 · Drawings



Drawings





Cooling

The SL3000 Amplifier have a comprehensive cooling system featuring chassis sealed PCB board mounting and shock mounted, speed controlled fans. This means that the cooling system never drives air across PCB boards, connectors or components, ensuring prolonged electronic component lifespan and minimizing maintenance cycles.

Air is drawn into the front of the amplifer by the two fans on the rear panel, this passes over the cooling fans of the heat sinks and exhausts through the rear. If the heat sink gets too hot, its sensing circuit will open the output relay, disconnecting the load.

It is important to have an adequate air supply at the front of the amplifier, and enough space around the rear of the amplifier to allow the cooling air to escape. If the unit is rack mounted, do not use doors or covers on the rear of the rack, the exhaust air must flow without restriction. If you are using racks with closed backs, use fans on the rear rack panel to ensure an ample air supply.

The filters at the top and bottom of the front panel must be kept clean and free of dust and dirt to allow full operation-CHECK PERIODICALLY.

AC Requirements

Two PowerCon cables are provided to connect the SL3000 Amplifier to a suitable AC power supplies. Each cable powers each separate amplifier channel for sufficient current delivery.

The SL3000 requires a ground connection. Always use a grounded outlet and plug.

The PowerCon is a connector without breaking capacity, i.e. the PowerCon should not be connected or disconnected under load or while it is live. Always isolate your AC supply before disconnecting the PowerCon connector.

The SL3000 amplifier operates in either 115V, 230V or 250V modes. Although pre-configured at the factory, the unit's operating voltage mode can be changed in the field. Amplifier power plug must remain readily operable.

Your amplifier will be supplied preset to the voltage used in your area. The table below provides typical current draw figures for the SL3000 Amplifier.

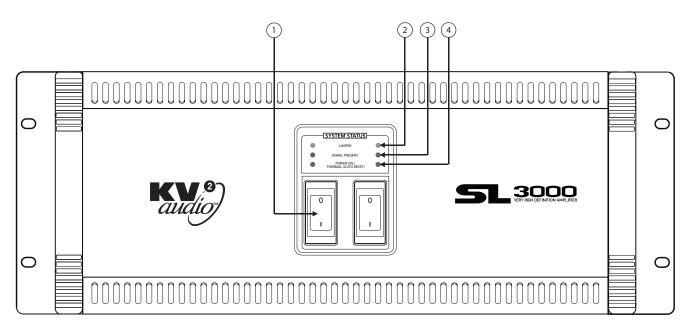
The receptacle must be connected to a fuse or circuit breaker. Connection to any other type of receptacle poses a shock hazard and may violate local electrical codes.

Do not allow water or any foreign object to get inside the amlifier. Do not put objects containing liquid on or near the unit. To reduce the risk of overheating the amplifier, avoid exposing it to direct sunlight. Do not install the unit near heat-emitting appliances, such as a room heater or stove. this amplifier contains potentially hazardous voltages. Do not attempt to disassemble the unit. The unit contains no user serviceable parts, repairs should be performed only by factory trained service personnel.

AC Input	Current draw with amplifier running at Average Power (Each Channel)	Current draw with amplifier running at Peak Power (Each Channel)
250V	3.2A	5A
230V	3.5A	5.4A
115V	7A	11A



Front panel



1) AC Mains Switch

The SL3000 Amplifier has a combination AC Main switch/circuit breaker on the front panel. If the switch shuts off during normal use, push it back to the ON position once. If it will not stay on you should take the unit to qualified service personnel to have it serviced.

2) Limiter

Yellow LED, indicates that the audio limiter has been activated. This RMS limiter protects speakers against overload.

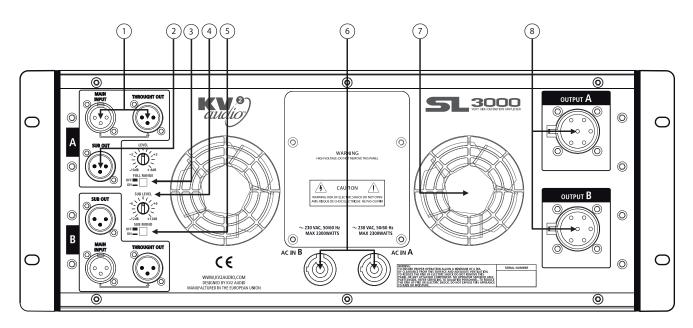
3) Signal Present

Green LED indicates when audio signal is present at the amplifier input.

4) Power On / Thermal (Auto reset)

Green LED indicates that the AC power is on. When red, it indicates that the thermal limit of the SL3000 Amplifier has been exceeded and the unit has shut down.

Rear panel



1) Main Input / Throught out

This is the main system input balanced XLR connector with associated Through Signal Output connector for sending unprocessed signal to other devices in a system.

2) Sub out

Balanced XLR output connector, used to connect additional subwoofer. Output is active even when FULL RANGE switch is ON.

3) Full Range

Switch, selects the amplifier crossover setup, when ON full range signal is reproduced by Classic cabinets, when OFF signal is by frequency band in conjunction with the subwoofer output setup.

4) Sub level

This is the level control for the External Sub output in the range -6 to +6 dB.

5) Mono

Switch, sets SUB OUT outputs summing SUB OUT outputs channel A and B together.

6) PowerCon Power Connectors

The SL3000 Amplifier uses two connectors per two channel. Each connector supplies one channel. They accept standard PowerCon terminated AC Mains cables.

7) Fans

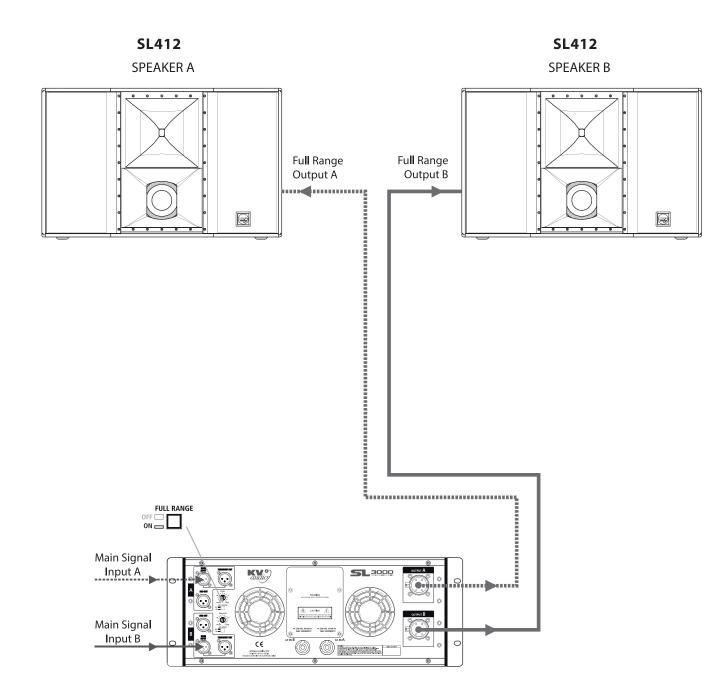
The cooling fans operate continuously while the amplifier is on. An internal temperature sensor increases the speed of the fans during high temperature conditions. Air enters through the front grille and exits through the rear. Be sure to allow adequate air flow to the front of the rack in which the SL3000 Amplifier is mounted.

8) Speaker AP6 Connectors

Accepts a standard AP6 terminated loudspeaker cable for connecting up to a single SL412 cabinet. We recommend using 2.5mm/core cables..



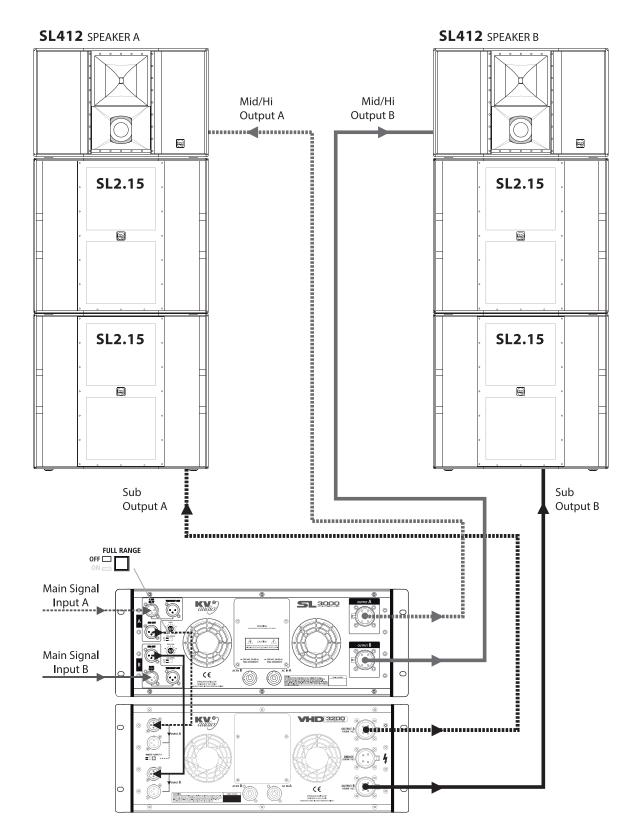
Full range setup



Set SL3000 Amplifier to FULL RANGE ON mode. SL412 cabinets plays full range signal.



External subwoofer setup



Set SL3000 Amplifier to FULL RANGE OFF mode. Signal is crossed over at Hi/Mid for SL412 cabinets and SUB for external subwoofer.

SUB SET UP LEVEL setting depends on which subwoofer unit is used.

SL3000 · Specifications



Specifications

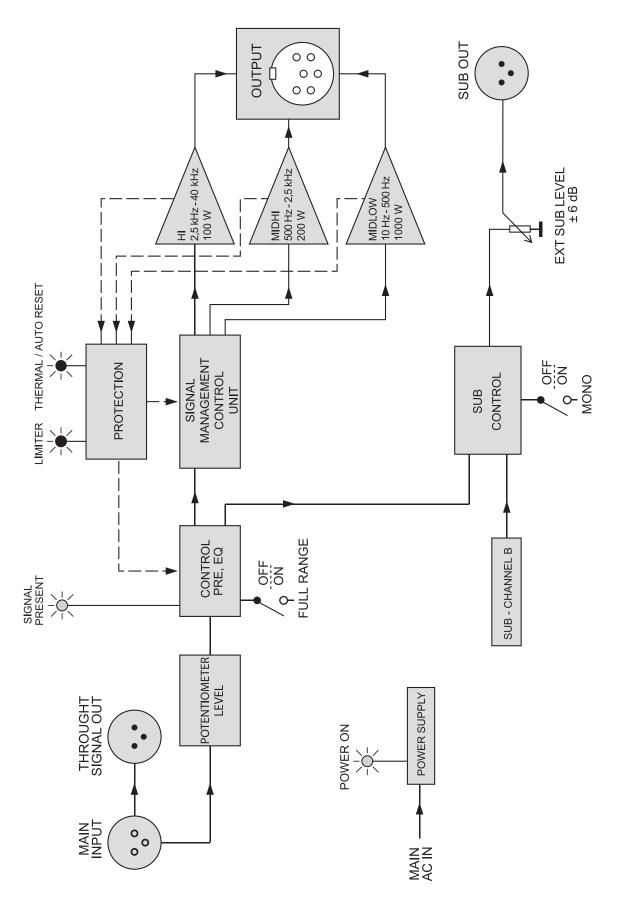
Output Channels	
Number of Channels	2 (stereo)
Total Output Power	2x 1300W
High Frequency Amplifier Specification	
Туре	Class AB - Push Pull - Low IM Design, Transformer balanced output
Rated Continuous Power	100W
Distortion	<0.02%
Operating Bandwidth	2,5kHz to 40kHz
Mid Frequency Amplifier Specification	
Туре	Class AB - Push Pull - Low IM Design, Transformer balanced output
Rated Continuous Power	200W
Distortion	<0.02%
Operating Bandwidth	400Hz to 2,5kHz
Low Frequency Amplifier Specification	
Туре	High efficiency, Current-enhancing switch mode
Rated Continuous Power	1000W
Distortion	<0.02%
Operating Bandwidth	35Hz to 400Hz
Signal Input	
Input Sensitivity	1V RMS
Input Impedance	20kΩ (balanced)
Speaker Output	
Speaker Output	2x AP6
Power	
Power Connector	2x Neutrik PowerCon®
Operating Voltage	115V / 230V / 250V
Operating Voltage Range	100 to 120V@60Hz 205 to 240V@50Hz 225 to 260V@50Hz
Recommended Amperage	2x10A 115V 2x5A 230V 2x5A 250V
Physical Dimensions	
Height	177.8 mm (7.0"), 4RU
Width	481.4 mm (18.95")
Depth	495 mm (19.5")
Weight	39.2 kg (86.62lbs)

SL3000 · Block Diagram



Block Diagram

Channel A, channel B is identical



SL412 · Overview





WIDE DISPERSION ACTIVE DRIVE SYSTEM SL412 - part number KVV 987 273



Application

Custom designed as an aesthetically – easily integratable high performance unit for multitasking installation projects of recorded and live music performance

- Fixed installation
- Nightclubs
- Multi-use venues
- Large bars

Introduction

The SL412 is a slim, discreetly profiled cabinet with wide dispersion at high frequencies. The four twelve inch speaker configuration provides controlled low-mid focus to reduce indoor reflection. Its slim design allows for simple wall mounting, suspension, ground stacking, or internal wall fixing. The 412 can be designed and supplied with custom colours, grille templates and logos, offering a flexible and true designer integration product. A single horizontal yoke assembly with multiple fixed angle and fixing locations, provides a quick and cost effective solution for simple suspension options.

Features

- Slim, discreetly profiled wall mount cabinet
- Wide dispersion at high frequencies, controlled at low-mids to reduce indoor reflections
- 134dB sustained output, 137dB peak with very high dynamic range
- Simple wall mounting and suspension, ground stacking options and can be installed internally into walls and surfaces
- These units can be designed and supplied with custom colors, grill templates and logos, offering a flexible and truly
 designer integrated product
- A single horizontal yoke assembly with multiple fixed angles and fixing locations, provides a quick and cost effective solution for simple suspension options

Slim-line Sound System Benefits

Total flexibility

The requirement for truly 'environment integrated' enclosures is always a difficult prospect, with large, or often deep enclosures protruding into and breaking up sight lines. Requests are often received from both architects and interior designers for less obtrusive units, whilst providing the highest integrity in sound quality, output and coverage.

Superb sound

KV2 Audio Slim-line system uses Super Live Audio technology with greater dynamic range than any current similar solution.

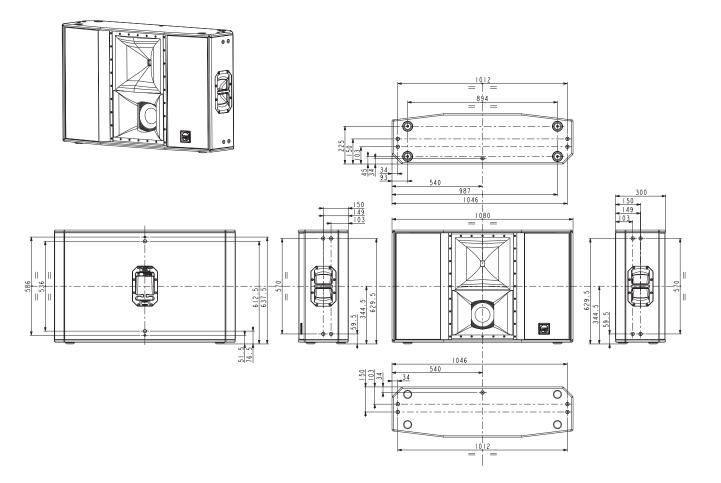
Easy set-up

Plug-and-play connection to SL3000 amp/processor module. Slim, discreetly profiled, wall mount design. Cabinet features twohandles, eight suspension points and "integral feet" for easy positioning on stage.

SL412 · Drawings



Drawings



Architects and Engineer's Specifications

The three-way, mid / high loudspeaker system shall incorporate four 12-inch mid-bass (MB) transducer a 8-inch mid range (MR) speaker and a 1.4-inch exit compression driver high frequency (HF) transducer. The LF drivers are direct radiating, tuned for optimum mid-bass response. The HF and MR transducers shall be loaded in constant directivity mid/high horn assembly. The system has a nominal coverage pattern of 110° (horizontal) x 40° (vertical).

The loudspeaker enclosure shall have a slim shape and shall incorporate, two side handles with integrated M10 suspension points, integrated internal braces with total 18 M10 suspension points. The speaker cabinet shall be finished with an ultra wear resistant black polymer coating and fitted with a weather resistant perforated steel grill. The system shall receive power from a separate stereo Amplifer SL3000.

Amplifier and controller module SL3000 consisting of separate power amplifiers for high, midrange and midbass transducers as well as signal processing including electronic band pass crossovers, limiters, phase alignment, time correction, equalization and speaker protection. The speaker system shall connect to the SL3000 via proprietary cables terminated in Amphenol AP-6 connectors. The three-way mid / high loudspeaker system shall be the KV2 Audio SL412.

SL412 · Specifications



Specifications

System Acoustic Perfomance	
Max SPL Long-term	134dB
Max SPL Peak	137dB
-3dB Response	70Hz to 22kHz
-10dB Response	58Hz to 22kHz
High Frequency Section	
Acoustic Design	Horn Loaded
High Horn Coverage Horizontal / Vertical	110° x 40°
Rotatable Horn	NO
High Frequency Amplifier Requirement	100W
Throat Exit Diameter / Diaphragm Size	1.4" / 3"
Diaphragm Material	Nitride Titanium
Magnet Type	Neodymium
Mid Range Section	
Acoustic Design	Horn Loaded
Mid Horn Coverage Horizontal / Vertical	110° x 40°
Rotatable Horn	NO
Midrange Amplifier Requirement	200W
Woofer Size / Voice Coil Diameter / Design	8" / 3.0" / Trans Coil
Diaphragm Material	Epoxy Reinforced Cellulose
Magnet Type	Neodymium
Low Frequency Section	
Acoustic Design	Front Loaded, Bass Reflex
Low Frequenzy Amplifier Requirement	1000W
Number of Drivers	4
Woofer Size / Voice Coil Diameter / Design	12" / 3" / Inside outside
Magnet Type	Neodymium and Ferrite
Speaker Input	
Speaker Input	AP6
Cabinet	
Cabinet Material	Baltic birch
Handles	2
Flyware	20x M10 mounting points
Color	"Orange peeled" Matt Black or any RAL
Physical Dimensions	
Height	670 mm (26.38")
Width	1080 mm (42.52")
Depth	300 mm (11.81")
Weight	60 kg (132.28lbs)



The **SL412** is a 3-way high output, active-driven, wide dispersion loudspeaker module. It is designed as part of a sound reinforcement speaker system that includes the SL3000 system control and amplification system The SL412 Loudspeaker system benefits from being designed exclusively to operate above 60Hz. By optimizing the ideal operating band pass of each system component, the SL412 can achieve extremely high output levels consistently and safely.

Active-driven by the SL3000 unit

Power, electronic crossovers, phase alignment, equalization, time correction and speaker protection are provided within the SL3000 unit. This "one plug in, one-plug-out" system ensures fast, easy set up and complete control. It gives you the benefits of active sound reinforcement technology, yet locates the electronics in an easyaccess rackmount module. Together, the SL412 and SL3000 unit deliver the highest dynamic range of any system currently available, providing new levels of clarity, depth and resolution.

Advanced compression driver

KV2 Audio's transducer partner, 18 Sound in Cavriago, Italy, manufactures and co-develops all SL412 components. The compression driver is a 3-inch nitride- titanium diaphragm design, featuring a complex geometry phase plug that dramatically lowers distortion, eliminates ring modes and provides clearer, ripple free performance.

Mid/High horn design

The SL412 features a mid/high integrated horn design with a number of unique features. The horn design is based on constant directivity geometry with an emphasis on maintaining low transducer compression ratios, high output and wide dispersion (110° x 40°). The midrange speaker is fixed to a large aluminum heat sink which is attached to a precisely designed midrange "chamber". The combination provides optimal cone loading and heat dissipation. Further loading and dispersion is controlled through a precision phase plug.

Heat-resistant midrange

Midrange frequencies between 450Hz and 2.2kHz are reproduced by an eight-inch midrange speaker that provides 106dB of sensitivity (1 watt / 1 meter) when coupled with the integrated horn. The magnetic motor assembly features a Trans Coil 3" diameter voice coil assembly and extensive use of neodymium. Because of the limited linear movement of most midrange transducers - usually 2-3mm - ventilation of the voice coil assembly and magnetic structure is poor and failure rate from heat fatigue is high. The SL412 midrange dissipates heat passively through the use of a massive aluminum heat sink. When combined with the SL3000 amplifier unit control electronics, the system provides high output levels safely and consistently over infinite periods of time and dramatically reducing heat associated transducer problems such as power compression and decreased dynamics.

Neodymium mid-bass transducer

The SL412 features a four twelve-inch neodymium mid-bass speakers with front loaded bass reflex design. It is important to note that neodymium is not a transducer panacea, as it cannot safely operate at the same typical operating temperatures ferrite does. Using neodymium requires a profound understanding of material science and finite element analysis to properly design a stable, high force magnetic structure that functions correctly. 18 Sound and KV2 Audio engineering jointly designed the twelve-inch mid-bass driver for the SL412. The SL412 mid-bass transducers reproduces frequencies from 60Hz to 450Hz. Used mid-bass transducers are very precise and fast with high sensitivity. The high efficiency neodymium motor provides an extraordinary amount of force that delivers complete control of the cone mass and a high overall weight loss.

Easy to set up

The SL412 is the ultimate, nice looking enclosure featuring a number of ergonomically designed components that make it a light, small, and easy speaker to set up and use. KV2 designed and tooled new cabinet handles for use in their products. The two side handles make it easy to pick up and reposition the SL412 in a natural, instinctive manner. There are four industrial grade, internal braces placed at each corner and one internal brace on the back. Corner braces are held in places by four M6 and two M10 bolts, the back brace is held by two M6 and one M10, providing a wide range of installation and suspension flexibility.

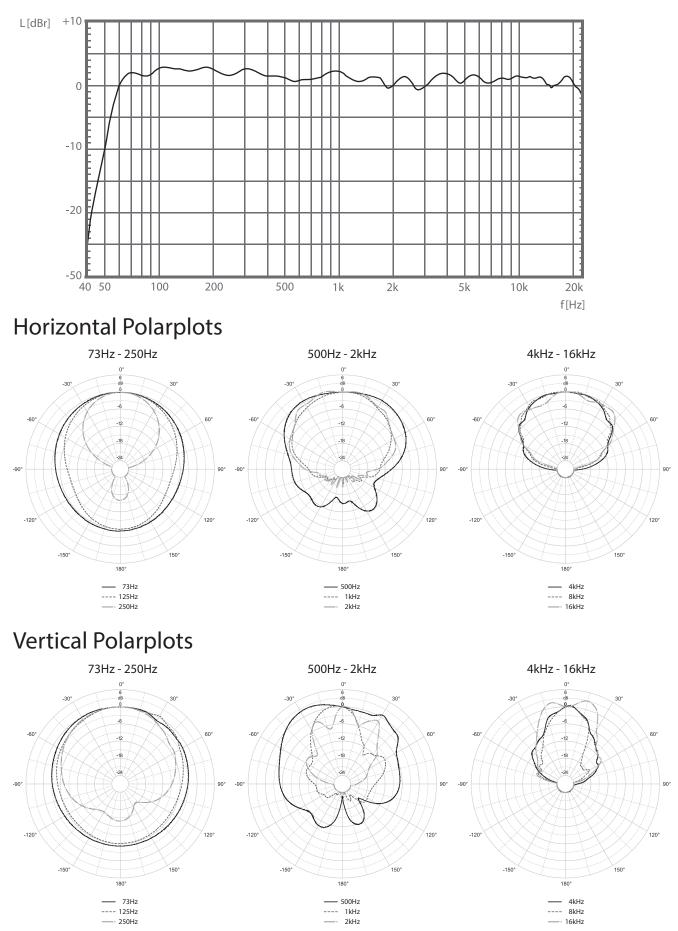


SL412 rear panel (cable connection to SL3000 unit Amplifier/Controller)

SL412 · Frequency response



Frequency response



SL2.15 · Overview



SL BASS ENCLOSURE

SL2.15 - part number KVV 987 274





Specifically designed subwoofer enclosure to accompany the SL412 as a high powered aesthetically pleasing full range music playback and performance system

- Fixed installation
- Nightclubs
- Multi-use venues

Introduction

The SL2.15 is a double15" subwoofer based on direct radiation system with augmented bass reflex. Built to integrate aesthetically with the SL412 the SL2.15 produces deep bass from its slim cabinet design. Bass response is enhanced by coupling when the SL2.15 is used against or in a wall, providing optimum output for it's small footprint. It also combines beautifully with the Ultra Low Frequency VHD1.21 and 2.21 subwoofers as part of a five way active system.

Features

- Slim, discreetly profiled wall mount cabinet
- 129dB sustained output, 132dB peak with very high dynamic range
- Simple wall mounting, suspension and ground stacking options and can be installed internally into walls and surfaces
- These units can be designed and supplied with custom colors, grill templates and logos, offering a flexible and truly designer integrated product
- A single horizontal yoke assembly with multiple fixed angles and fixing locations, provides a quick and cost
 effective solution for simple suspension
- Front-loaded, 2x 15" bass drivers with 3" voice coil assembly and ferrite magnetic motor structure
- Professional, exterior-grade Baltic birch construction with wear-resistant polymer coating
- Proprietary side handle design for simplified handling and carrying
- Internal back braces with nine M10 suspension points
- A total of 23 suspension points are available for custom installation applications
- Two SL2.15 speakers require one channel of two channel VHD3200 subwoofer amplifier unit

Slim-line Sound System Benefits

Total flexibility

The requirement for truly 'environment integrated' enclosures is always a difficult prospect, with large, or often deep enclosures protruding into and breaking up sight lines. Requests are often received from both architects and interior designers for less obtrusive units, whilst providing the highest integrity in sound quality, output and coverage.

Superb sound

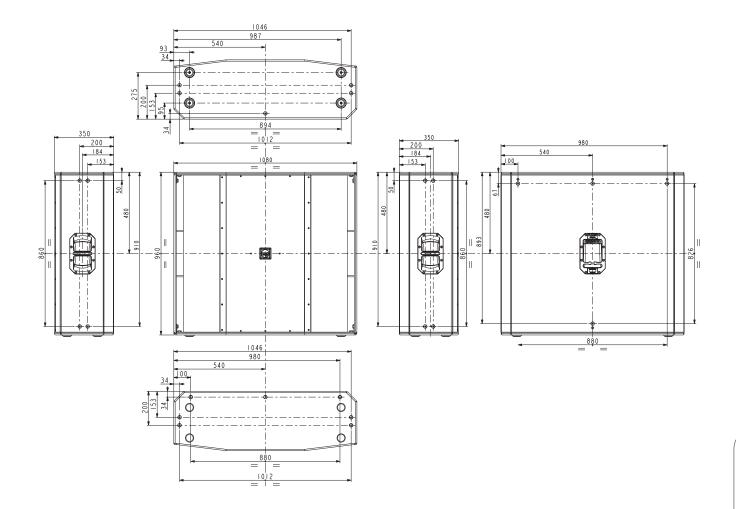
KV2 Audio Slim-line system uses Super Live Audio technology with greater dynamic range than any current similar solution. Easy set-up

Plug-and-play connection to SL3000 amp/processor module. Slim, discreetly profiled, wall mount design. Cabinet features twohandles, eight suspension points and "integrating feet" for easy positioning on stage.

SL5.12 · Drawings



Drawings



Architects and Engineer's Specifications

The bass module loudspeaker system shall incorporate two 15-inch low frequency (LF) transducer with ferrite motors and 3-inch polymide, high-temperature voice coils. The LF driver shall be mounted inside a compact wood enclosure with bass reflex design.

The loudspeaker enclosure shall have a slim shape and shall incorporate two side handles with integrated M10 suspension points and incorporate integrated internal braces with 23 M10 suspension points. The speaker cabinet shall be finished with an ultra wear resistant black polymer coating and fitted with a weather resistant perforated steel grill.

This speaker shall receive power from a separate subwoofer amplifier module (VHD3200) including speaker protection. The speaker system shall connect to the amplifier module via proprietary cables terminated in Amphenol AP-4 connectors.

SL5.12 · Specifications



Specifications

System Acoustic Perfomance	
Max SPL Long-term	129dB
Max SPL Peak	132dB
-3dB Response	40Hz to 500Hz
-10dB Response	35Hz to 500Hz
Sensitivity	100dB
Impedance	8Ω
Crossover Point	70Hz
Low Frequency Section	
Acoustic Design	Direct-Radiating with Bass Reflex
Subwoofer Amplifier Requirement	1600W / 2x SL2.15 (VHD3200 amp.)
Number of Drivers	2
Woofer Size / Voice Coil Diameter / Design	2x 15" / 3" / Inside Outside
Magnet Type	Ferrite
Diaphragm Material	Epoxy Reinforced Cellulose
Signal Input	
Speaker Input	AP4
Speaker Output	
Speaker Output	AP4
Cabinet	
Cabinet Material	Baltic birch
Handles	2
Color	"Orange peeled" Matt Black or any RAL
Physical Dimensions	
Height	960 mm (37.8")
Width	1080 mm (42.52")
Depth	350 mm (13.78")
Weight	61 kg (134.5lbs)



The **SL2.15** is a compact, slim cabinet, high output bass module designed as a component of an SL Series sound reinforcement speaker system. The SL2.15 was designed as a direct radiation system with bass reflex, this system provides high output power from a relatively small and very shallow cabinet footprint. It is ideal for use in installation applications that require reproduction of low frequencies with very high transient content and where is no space for large subwoofers cabinets.

Fast and easy setup

Power for the SL subwoofer system is provided from external amplifier VHD3200, as a crossover and control system is used SL3000 Amplifier from ensuring fast, easy set up and complete control. Together with an SL Series Mid High module and an SL3000 system, they deliver the very high dynamic range and providing new levels of clarity, depth and resolution.

Durable, high-output low frequency transducers

KV2 Audio's transducer development and manufacturing partner, 18 Sound in Cavriago, Italy, manufactures the woofer for the SL2.15. The device is the result of their state-of-theart R&D facility and advanced production capabilities. The transducer features a double silicone spider, polymide voice coil assembly that undergoes multiple baking and curing processes as well as an advanced magnetic structure with advanced cooling system.

Built with load-in and load-out in mind

The SL2.15 is a very compact, slim, lightweight enclosure featuring a number of ergonomically designed parts that make it an easy speaker install and use. SL2.15 uses cabinet handles designed and tooled by KV2 for use in their products. The two side handles make it easy to pick up and reposition in a natural, instinctive manner.

Perfection in the details

The enclosure has four feets made from special acetal copolymer material. This material has two very essential properties that make it ideal for use in this application, high density and a very low coefficient of friction makes cabinet easy to move and slide cabinets with high durability.

Easy to install

There are eight industrial grade, internal braces placed at each corner. Each brace is held in place by four M6 and two M10 bolts providing a wide range of installation and suspension flexibility.



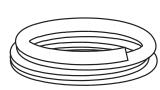
SL2.15 rear panel (cable connection to VHD3200 unit Amplifier/Controller)

SL Series · Accessories





- WX 004



SL Series · Accessories

part name: VB - SL412 part number: KVV 987 293 description: - 4 pcs Quick-lock-pins 6mm included - 4 pcs M10 hex screws

with hole included

SL Series · Accessories





- male

- cable mount

- description:
- female
- cable mount





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SL Series · Configurations



VHD3200

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0 0

HI/MID OUT CH-A

LOW OUT CH-A

2.0

LF40

LF40

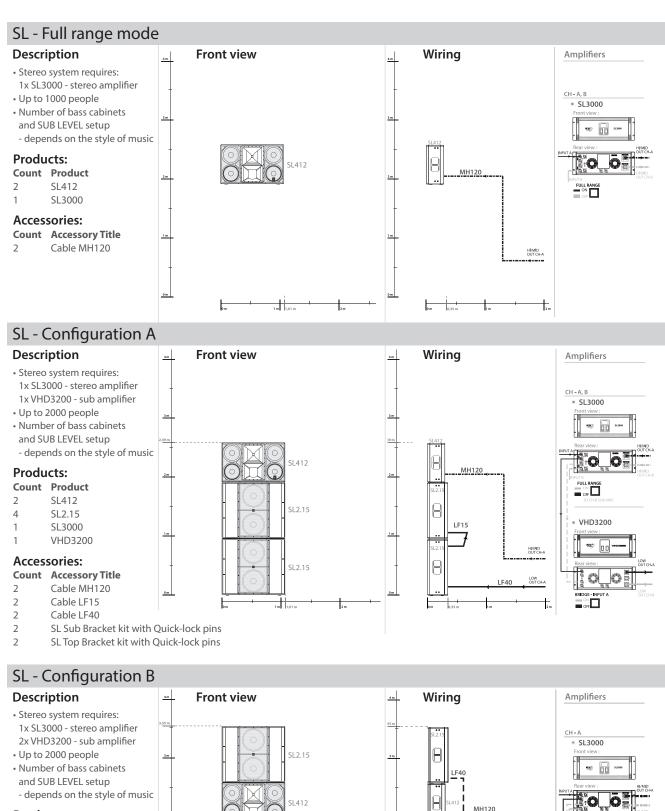
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LF15

2x SL2.15



SL2.15

Products:

- Count Product
- 2 SL412
- 8 SL2.15 1 SL3000
- 2 VHD3200

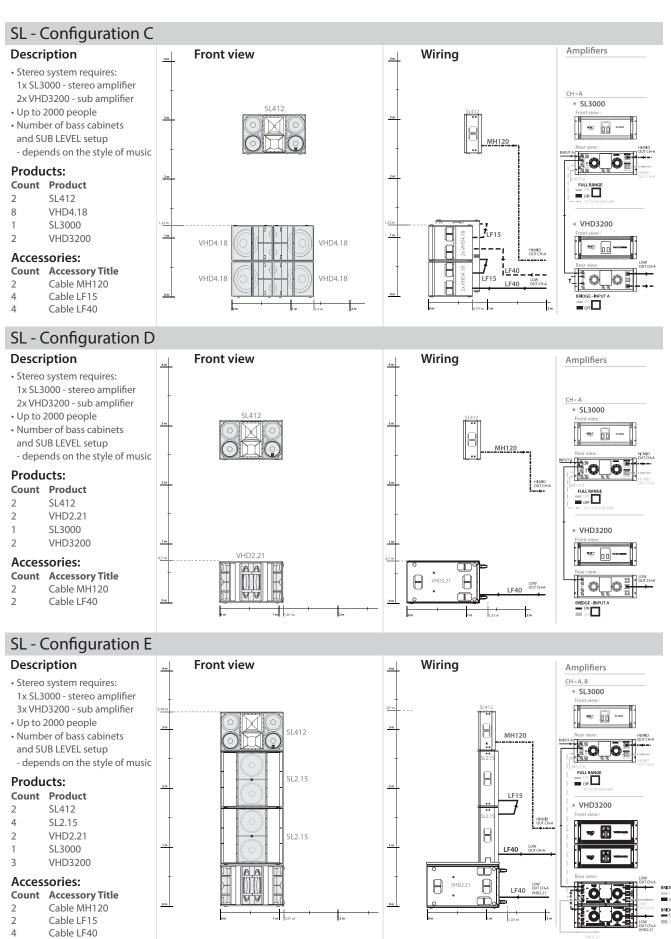
Accessories:

- Count Accessory Title
- 2 Cable MH120
- 8 Cable LF40
- 2 SL Sub Bracket kit with Quick-lock pins
- 4 SL Top Bracket kit with Quick-lock pins

SL Series · Configurations

SL Series · Configurations





- SL Sub Bracket kit with Quick-lock pins 2
- 2 SL Top Bracket kit with Quick-lock pins



Warranty

Your SL Series is covered against defects in material and workmanship.

Refer to your supplier for more details.

Service

In the unlikely event that your SL Series develops a problem, it must be returned to an authorised distributor, service centre or shipped directly to our factory. Because of the complexity of the design and the risk of electrical shock, all repairs must be attempted only by qualified technical personnel.

If the unit needs to be shipped back to the factory, it must be sent in its original carton. If improperly packed, the unit may be damaged.

To obtain service, contact your nearest KV2 Audio Service Centre, Distributor or Dealer.



The Future of Sound. Made Perfectly Clear.

KV2 Audio International

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KVV120084-00-06-0