







VARILINE



::::: Philosophy

Professional sound reinforcement requires maximum perfomance and high sound pressure levels for a wide variety of touring and installation applications. Universal loudspeaker functionality is therefore most important to meet the ever changing demands without effort.

Both acoustically and mechanically, VariLine enclosures have been uncompromisingly designed and optimized for multifunctional application. Innovative circuits provide maximum reliability and protection of all loudspeaker components. Engineered & made in Germany. VariLine loudspeakers feature premium components only: lightweight high power neodymium transducers, rotable CAD optimized CD horns, all-electronic protection circuits and passive true-phase crossovers provide outstanding reliability and linear reproduction even in highly critical applications. Comprehensive mounting and rigging accessories facilitate professional handling and secure, easy installation of VariLine loudspeakers. Visually attractive yet low-key, these enclosures are highly recommended for demanding ambiences.

::::: Cabinet Design

VariLine enclosures are made from extremely rugged multiply birch wood and two-pot finished to withstand touring and handling stress. The front is protected by a sturdy powder-coated steel grille lined with high quality acoustic foam and, the company logo is 90° rotatable for horizontal use. 12" and 15" models feature asymmetric enclosures to facilitate the use as floor monitors and cluster arrangement.





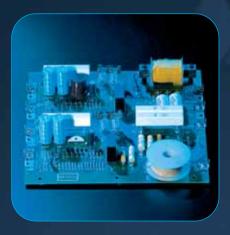
:::::: Transducer

VariLine loudspeakers are equipped with extremely low-distortion state-of-the-art drivers only to provide linear response, wide dynamic range and high power handling. The 6", 12" and 15" transducers feature neodymium magnets significantly contributing to the light weight of VariLine enclosures.

:::::: Horn

The large format VariLine constant directivity HF horns have been optimized with advanced CAD software resulting in exemplary low distortion and directivity way down beyond the MB range. For horizontal applications, they are rotatable by 90°. The smaller enclosures are equipped with Electro-Voice DH3 titanium dome drivers, the VL 122 and larger models feature Electro-Voice ND6 neodymium drivers with 3" voice coils and 1.4" exits. These advantageous horn/driver configurations provide crisp and powerful high-resolution HF reproduction.

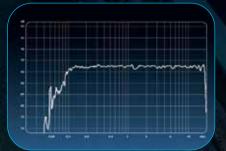




::::: Crossover

VariLine crossovers use selected high-quality components only for signal processing and the innovative DYNACORD protection circuits: the all-electronic VOICE COIL TRACKING PROTECTION and halogen protectors prevent thermal overload. For maximum dynamics, VariLine loudspeakers can be driven by extremely powerful amplifiers without voice coil damage - even when operating errors occur. Thermal overload triggers a 'soft' power reduction without the switching noise of conventional protection circuits. Additionally, 12" and 15" models feature selectable bi-amp operation .





::::: Drive

With DYNACORD PowerH amplifiers and IRIS-Net, VariLine systems can be networked providing comprehensive remote control and permanent supervision. Fully configured presets are available for a variety of system setups containing loudspeaker monitoring and linear phase FIR (Finite Impulse Response) filtering while others presets provide FIR floor monitor optimizing. Even very large systems require one mouse click only for impedance sweep measuring and loudspeaker connection testing.

Of course, IRIS-Net-controlled systems are also user-configurable. Presets are available for conventional digital controllers as well and, EASE and Ulysses data files facilitate demanding simulations quickly and precisely.

::::: Flying brackets

Flying brackets are optional accessories for precise loudspeaker aiming at the listening areas. In installation applications, the bracket can be equipped with truss clamps for flying while an adapter enables stand mounting. A TV spigot enables easy changing from truss to stand mounting while additional adapters provide maximum flexibility for a comprehensive range of applications (see pp. 15).





:::::: Installation hardware

A wide range of installation hardware is available for VariLine fullrange cabinets providing classic three-point eyebolt flying, wall or ceiling bracket mounting and, even more convenient, three-level adjustable mounting (see pp. 15).



:::::: VL 62 and VL 262

The models VL 62 and VL262 are very compact 2-way full-range high power cabinets for a wide variety of mobile and installation applications. High sensitivity (94dB/97dB @ 1W/1m) and power handling makes them stand out in their class.

Extremely low distortion DND 6130-16 neodymium drivers handle lows and mids while a 90° x 40° HPT94 constant directivity horn radiates the highs. It is driven by the brilliantly clean

Electro-Voice DH3 and easily 90° rotatable for horizontal applications. Recessed SPEAKON connectors enable positioning close to walls, and two lateral M10 inserts are provided for mounting the FB... pivot bracket. MB and MB UMH brackets can be attached to the top or bottom via M10 inserts while four M6 inserts are provided on the back for other wall mount brackets.

A rugged, water-repellent cover is available as accessory.











:::::: VL 122, VL 152 and VL 212

The 12" and 15" VariLine models are high power 2-way cabinets exclusively equipped with high-quality neodymium components. These lightweight champs feature impressively high power handling for superior sound pressure levels.

Large format HF horns coupled to Electro-Voice ND6 drivers provide balanced directivity well below the crossover frequency and clear, detailed HF reproduction. In horizontal applications –

especially when used as monitor and in high-quality installations – mid and high frequency radiation can be optimized by horn rotation. The 12" and 15" models are switchable from full-range mode to bi-amp operation. Their asymmetrical enclosure design is ideal for floor monitor use and cluster arrangements.

For the range of mounting and flying hardware refer to page 15.





:::::: SUB 18 and SUB 28

The vented SUB 18 and SUB 28 direct radiators have been designed for subwoofer use in active multiway systems. The superior transient response of the classic bass reflex construction is also well suited for medium to large bass arrays.

The premium 700W RMS long excursion woofers feature extremely low THD, and the reliable, all-electronic Voice Coil Tracking Protection prevents thermal overload of the 100mm sandwich voice coils.

For maximum dynamics, the SUB models can be driven by extremely powerful amplifiers; thermal overload triggers a virtually inaudible 'soft' power reduction. The 18mm multiply birch wood enclosures feature a rugged two-pot structured finish.

The woofers are damage and weather protected by a sturdy powder-coated steel grille lined with high quality acoustic foam. Wheel kits with four 100mm factory assembled 'Blue Wheels' are optionally available. These are mounted to the back to provide easy and convenient transport .

The SUB 28 is switchable from 1 x 4 ohms to 2 x 8 ohms mode where woofer A is connected to the Speakon pins 1+/1- and B to pins 2+/2-.

When driven by DYNACORD CL, LX or Power-H series amplifiers a single 4-conductor loudspeaker cable is required to feed both woofers from amplifier channel A (channel B output is also present at channel A pins 2+/2-).



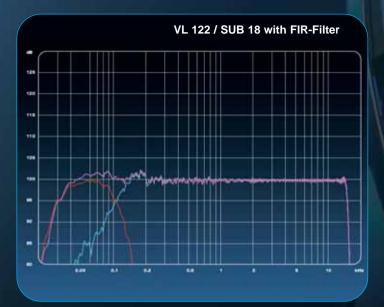


WK 500 # D113150 for SUB 18 **WK 600** # D113149 for SUB 28



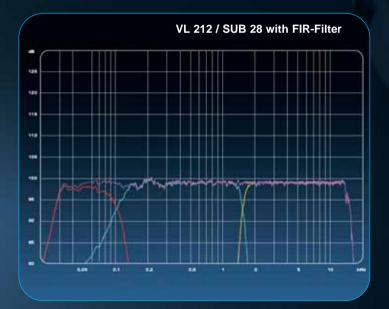






::::: VL 122 and SUB 18

Active high power 2 or 3-way combination for small to medium bistro and club sound reincorcement. With FB-VL122 flying brackets, the satellites can be conveniently pole-mounted on the subwoofers and precisely aimed at the target areas. High-performance CL and LX series amplifiers and the DSP 244 controller and / or Power-H amplifiers with RCM 26 module are recommended as drive units.



:::::: VL 212 and SUB 28

Active high power 2 or 3-way combination with maximum lomid sound pressure levels for medium FOH applications. Individual all-electronic Voice-Coil-Tracking Protections prevent thermal overload of the transducers permitting the use of the high-performance DYNACORD Power-H series H 2500 and H 5000 amplifiers for maximum dynamics.





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::::: Accessories



| | (3) | ئ | L | L, | | | 4 | 1 |
|--------------------|-------------------|----------------|-------------------|------------------|----------------------------|---------|---------------|---------------|
| Cabinet Order # | FB > fix Truss | Truss Clamp | FB > fix Stand | Stand Adapter | FB > varial Truss / Sta | | FB > Truss | FB > Stand |
| VL 62 | FB-VL 62 | TC-02 | FB-VL 62 | PCL M10 | FB-VL 62 | FB-TV | TC-TV | PM-TV |
| D113127 | D113140 | D112808 | D113140 | D113116 | D113140 | D113142 | D112941 | D112942 |
| VL 262 | FB-VL 262 | TC-02 | FB-VL 262 | PCL M10 | FB-VL 262 | FB-TV | TC-TV | PM-TV |
| D113101 | D113101 | D112808 | D113110 | D113116 | D113110 | D113142 | D112941 | D112942 |
| VL 122 | FB-VL 122 | TC-02 | FB-VL 122 | PCL M10 | FB-VL 122 | FB-TV | TC-TV | PM-TV |
| D113103 | D113111 | D112808 | D113111 | D113116 | D113111 | D113142 | D112941 | D112942 |
| VL 152 | FB-VL 152 | TC-02 | FB-VL 152 | PCL M10 | FB-VL 152 | FB-TV | TC-TV | PM-TV |
| D113104 | D113112 | D112808 | D113112 | D113116 | D113112 | D113142 | D112941 | D112942 |
| VL 212 | FB-VL 212 | TC-02 | FB-VL 212 | PCL M10 | FB-VL 212 | FB-TV | TC-TV | PM-TV |
| D113133 | D113152 | D112808 | D113152 | D113116 | D113152 | D113142 | D112941 | D112942 |

| Type / Name | VL62 | VL262 | VL122 | VL152 | VL212 | Sub18 | Sub28 | |
|----------------------------------|--|----------------|-----------------|----------------|-----------------|----------------|---|--|
| Order-# | D113127 | D113101 | D113103 | D113104 | D113133 | D113129 | D113130 | |
| Cabinet | Full-Range | Full-Range | Full-Range | Full-Range | Full-Range | Subwoofer | Subwoofer | |
| Configuration | passive 2-Way | passive 2-Way | passive 2-Way | passive 2-Way | passive 2-Way | Vented Direct | Vented Direct | |
| | | | | | or Biamped Mode | Radiator | Radiator | |
| | | | | | | | | |
| Nominal Impedance | 16 ohms | 8 ohms | 8 ohms | 8 ohms | 4 ohms | 8 ohms | 4 ohms** | |
| | | | | | | | | |
| Rated Power RMS | 150 watts | 300 watts | 400 watts | 500 watts | 800 watts | 700 watts | 1400 watts | |
| Program Power | 300 watts | 600 watts | 800 watts | 1000 watts | 1600 watts | 1400 watts | 2800 watts | |
| Peak Power | 600 watts | 1200 watts | 1600 watts | 2000 watts | 3200 watts | 2800 watts | 5600 watts | |
| | | | | | | | | |
| SPL 2,83 V/1m | 94 dB* | 97 dB | 99 dB | 100 dB | 105 dB | 98 dB | 104 dB | |
| max. SPL 1m | | | | | | | | |
| (calc. with Peak) | 122 dB | 125 dB | 131 dB | 133 dB | 137 dB | 132 dB | 138 dB | |
| | | | | | | | | |
| Freq. Range (-10 dB) | 90Hz - 20Hz | 90Hz - 20Hz | 60Hz - 20Hz | 50Hz - 20Hz | 80Hz - 20Hz | 35Hz - 700Hz | 35Hz - 700Hz | |
| Coverage Angle nom. | 90° x 40° | 90° x 40° | 90° x 45° | 90° x 45° | 90° x 45° | | | |
| | | | | | | | | |
| Passive | | | | | | | | |
| X-Over Frequency | 2,2 kHz | 2,2 kHz | 1,5 kHz | 1,5 kHz | 1,5 kHz | Hi-Cut | Hi-Cut | |
| VCT Protections | Halogen | Halogen | yes | yes | yes | yes | yes | |
| | | | | | | | | |
| Components HIGH | Ev DH 3 | Ev DH 3 | Ev ND6-8 | Ev ND6-8 | Ev ND6-8 | | | |
| Order-# | D353078 | D353078 | D361493 | D361493 | D361493 | | | |
| 0 | DND 0400 40 | 0. DND 0400 | DND 40050 | DND 45400 | 0 - DND 40050 | 1.50 40700 | 0.150.40700 | |
| Components LOW | | 2x DND 6130-16 | DND 12350 | DND 15400 | 2x DND 12350 | LFS 18700 | 2x LFS 18700 | |
| Order-# | D366420 | D366420 | D366559 | D366303 | D366559 | D366304 | D366304 | |
| Connectors SPEAKON | 2v NI 4MDD | 2x NL 4MPR | 2x NL 4MPR | 2x NL 4MPR | 2x NL 4MPR | 2x NL 4MPR | 2x NL 4MPR | |
| CONNECTORS OF EARON | ZX INL 4IVIFIX | ZX INL 4IVIFIX | ZX INL 4IVIF IX | ZX INL 4IVIFIX | ZX INL 4IVIF IN | ZX INL 4IVIFIX | ZX INL 4IVIF IX | |
| Pin Wiring | | | | | | | | |
| Normal/Fullrange | 1+/1- | 1+/1- | 1+/1- | 1+/1- | 1+/1- | 1+/1- | 1+/1- | |
| Pin Wiring Biamped H | | | 2+/2- | 2+/2- | 2+/2- | | Speaker A 1+/1- | |
| Pin Wiring Biamped L | | | 1+/1- | 1+/1- | 1+/1- | | Speaker B 2+/2- | |
| | | | | | | | | |
| Dimensions | | | | | | | | |
| (WxHxD) mm | 217x 379x 230 | 217x 543x 230 | 385x 715x 374 | 441x 780x 407 | 385x 1035x 374 | 505x 805x 570 | 605x 1205x 675 | |
| Net Weight | 8 kg | 10 kg | 24 kg | 26 kg | 34 kg | 49 kg | 82 kg | |
| Enclosure Material Birch Plywood | | | | | | | Birch Plywood | |
| Enclosure Material | | | | | | | | |
| Finish | Black 2-Component Structure Paint Powder Coated Steel, Acoustic Foam | | | | | | Black 2-Component Structure Paint Powder Coated Steel | |
| Grille | | Powder (| Powder C | oated Steel | | | | |
| Warranty | 36 months | 36 months | 36 menths | 36 months | 26 months | 36 months | 36 months | |
| Warranty | 36 months | <u> </u> | 36 months | 36 months | 36 months | 36 months | 36 months | |

^{* 4,0} V = 1W @ 16 ohms

Americas

Bosch Communications Systems USA: 12000 Portland Ave South Burnsville, MN 55337, USA

Phone: 1-800-392-3497 Fax: 1-800-955-6831

Canada: Phone: 1-866-505-5551 Fax: 1-866-336-8467

Latin America: Phone: 1-952-887-5532 Fax: 1-952-736-4212

Europe, Africa & Middle-East

Germany:

Bosch Communications Systems EVI Audio GmbH Hirschberger Ring 45 D-94315 Straubing, Germany Phone: +49 9421 706-0 Fax: +49 9421 706-265

EVI Audio France S.A. Parc de Courcerin Allée Lech Walesa F 77185 Lognes, France Phone: +33 1-6480-0090 Fax: +33 1-6006-5103

Asia & Pacific Rim

EVI Audio Japan Ltd. 5-3-8 Funabashi, Setagaya-Ku Tokyo, Japan 156-0055 Phone: +81 3-5316-5020 Fax: +81 3-5316-5031 Japan:

Telex EVI Audio (Shanghai) Ltd. Room 2210-2215 Tower B, Far East International Plaza No. 317, Xianxia Road Shanghai, China, PC: 200051 Phone: +86 (21) 6235-1677 Fax: +86 (21) 6235-1676

Hong Kong:

Telex EVI Audio (HK) Ltd. Unit 5,1/F,Topsail Plaza 11 On Shum Street Shek Mun,Shatin HK Phone: +852 2351-3628 Fax: +852 2351-3329

Singapore: Telex Pte. Ltd.
3015A Ubi Road 1, 05-10
Kampong Ubi Industrial Estate
Singapore 408705
Phone: +65 6746-8760
Fax: +65 6746-1206



^{**}switchable 1x 4 ohms / 2x 8 ohms

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