

LA MINI 线阵系统

LA MINI 线阵系列产品致力于高品质，具有充分的可靠性，在高声压级上也拥有超清晰的音质。

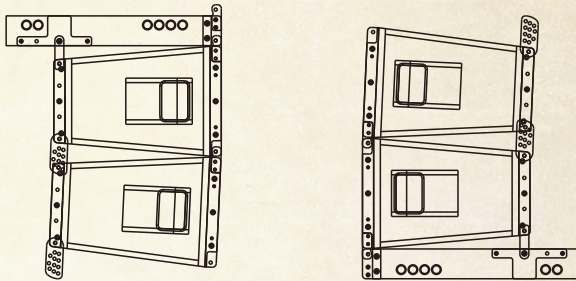
线阵系列产品是由超小型的单10"二分频和中型尺寸双10"二分频线阵列扬声器系统组成，并由单15"、双15"到双18"重低音音箱产品充实整个系列。

LA MINI 系列采用特制的高品质单元。整个流程均由经验丰富的音频工程师和产品结构工程师开发研制。吊挂件和堆垛等产品组件易于使用，且满足安全方面的最高要求。

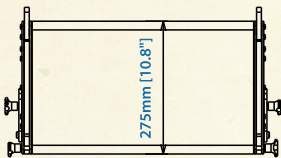




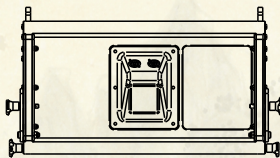
固定安装 Application and installation



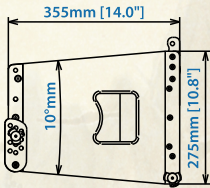
结构图纸 Construction Drawing:



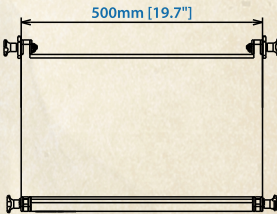
主视图



后视图



侧视图

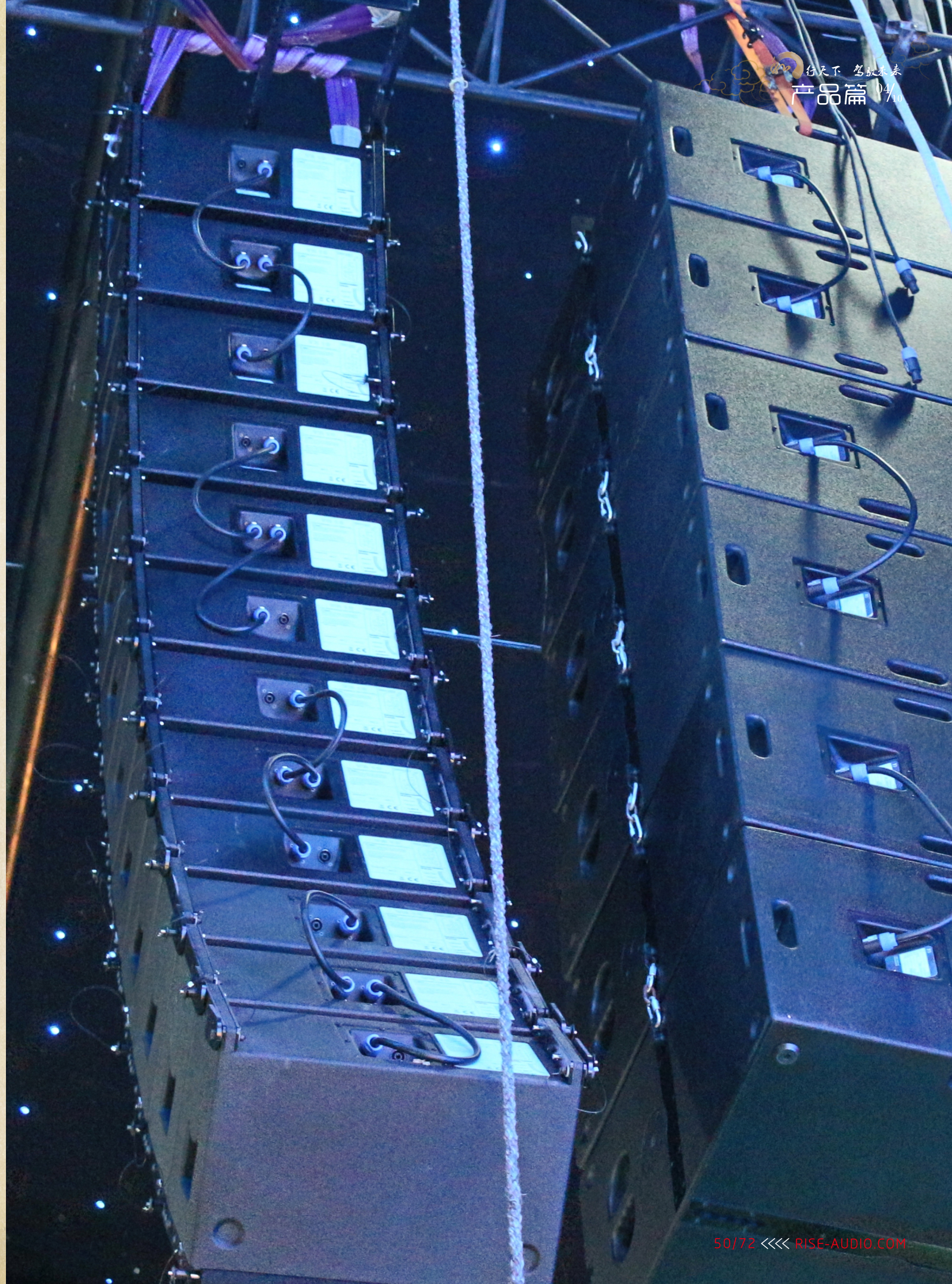


顶视图

外观设计可能有所改变
Cosmetic change may be made

技术指标 Technical data & Inteoduction:

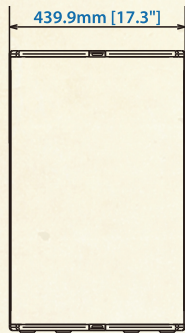
型号: LA10+	Model: LA10+
单元类型: 1 x10"LF/2x1"HF	Drivers:1 x 10" LF / 2 x 1" HF
频率范围 (±3dB):60-20000Hz	Frequency range:60 - 15000 Hz
额定功率 (节目/峰值):600/1200W(passiv)	Power capacity programm / peak: 500 / 1000 W biamped LF
500/1000W(biamped LF)	200 / 400 W biamped HF
200/400(biamped HF)	600 / 1200 W, passive
阻抗: passive 12 Ohm	Impedance: 16 ohms biamped LF
biamped LF 16 Ohm	16 ohms biamped HF
biamped HF 16 Ohm	12 ohms passiv
覆盖角度 (水平×垂直):80° or 120×10°	Coverage range (h x v):80° or 120 ° x 10°
灵敏度1W/1M :104dBpassiv 8 Ohm	Sensitivity 1 W / 1 m: 103 dB biamped LF
103dB(biamped LF)	112 dB biamped HF
111dB(biamped HF)	104 dB passiv
最大声压级 (1M): 133dB	SPLmax / 1 m / peak: 133 dB
外形尺寸 (高×宽×深):275×500×355 mm	Dimensions (h x w x d)275 x 500 x 355 mm
重量:16.9kg/18kg(带分频板)	Weight: 16,9 kg / 18 kg with passive crossover
涂层:聚氨酯漆	Finish: polyurethane coating
可选项:PWLA10内置分频板, 主动/被动模式	Options: PWLA10 internal passive crossover switchable
可切换RAL颜色可选 (Warnex结构漆)	bet- ween active and passive mode, RAL colours,



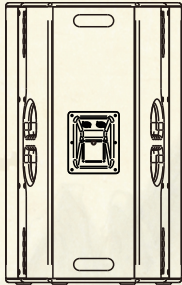


LA24 扬声器箱虽然是我们的第一款产品，但已体现了LH目前所做的一切。是否能把大功率负载的任何号筒扬声器推向市场，或怀有雄心壮志地制造出世界上最轻、最小巧紧凑和音量最大的2x12"/1.4"强指向性号筒扬声器，二者是有着本质区别的。在完全没有忽视能进行高保真重放的高端产品的需求下，LA24 成为了LH理念的范本。它以复杂的号筒扬声器套号筒扬声器的重叠设计结构产生大于143dB 的声压。我们最大限度地调整了有效系数、脉冲响应和指向特性，并将尺寸，重量和成本降至最低。这样，当需要更大一点的音量时，结构特别紧凑的号筒扬声器由于其大功率承受能力、卓越的动态、很远的射程，以及最佳的人声和语言可懂度而让人振奋.....

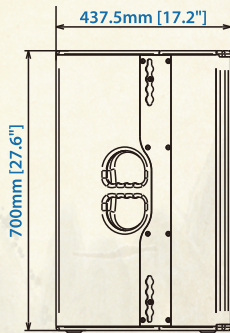
结构图纸 Construction Drawing:



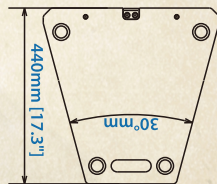
主视图



后视图



侧视图



底视图

外观设计可能有所改变
Cosmetic change may be made

技术指标 Technical data & Inteoduction:

型号: LA24	Model: LA24
单元类型: 2 x12"LF/1 x1.4"HF	Drivers: 2 x 12" LF / 1 x 1,4" HF
频率范围 (±3dB): 100-18000Hz	Frequency range: 100 – 18000 Hz
额定功率 (节目/ 峰值) :1200/2000W(Passive)	Power capacity programm / peak: 1000 / 2000 W biamped LF
1000/2000W(biamped LF)	150 / 300 W biamped HF
150/300W(biamped HF)	1200 / 2000 W passiv
阻抗: passive 4 Ohm	Impedance: 4 Ohm biamped LF
biamped LF 4 ohm	8 Ohm biamped HF
biamped HF 8 ohm	4 Ohm passive
覆盖角度 (水平x垂直) :60°x40°高频号角可旋转	Coverage range (h x v): 60° x 40° HF-horn rotatable
灵敏度1W/1M:110dB(passive)	Sensitivity 1 W / 1 m: 110dB(passive)
107dB(biamped LF)	107 dB biamped LF
112dB(biamped HF)	112 dB biamped HF
最大声压级 (1M): 143dB	SPLmax / 1 m / peak: 143 dB
接口: 2 Speakon NI4, Pin1 connected (passive)	Connectors: 2 Speakon NL4
外形尺寸 (高 x 宽 x 深) :706x 440 x 440 mm	Dimensions (h x w x d): 706 x 440 / 224 x 440 mm
重量: 45kg/46kg(内置分频)	Weight: 45 kg / 46 kg with passive crossover
涂层: Warnex结构漆	Finish: Warnex structure paint
可选项: PWLA24内置分频板, RAL颜色可选	Options: PWLA24 internal passive crossover, RAL colours



LM12是700W的二分频音箱,音质清晰，穿透力强，声压高，具有很好的音乐人声表现力。

LM12是一个真正的全能音箱。它可以独立应用于晚会，或作为扩音的延迟，作为舞台监听，或者与我们的低音组合。与LA30S 以及其它产品组合等等，LM 1 5的多用性令人印象深刻。

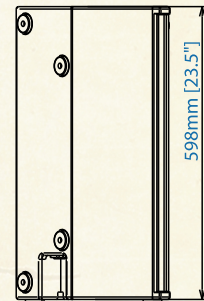
在独立运行的时候，你不需要控制器或者有源均衡器。只要简单地插上电源就可以了，令人印象深刻吧。能完整再现和区别多数不同音乐的材料，还有很高的反馈稳定性是令人高兴的因素。再有，不对称的音箱外壳又再次出现，可以作为专业监听。

很多人呼唤LM 1 5 是“有史以来最好的”，但是，你要听听它跟无源独立的LA30S组合的声音，像填满的鼓还是一个小小的俱乐部音响。因此值得一试。还需要指出的是：像所有LM系列的音箱一样，LM 1 5 也具有无源音频转接以达到最佳语音解读和中立的音乐回放-- -- --即使在一般的功放没有控制器的情况下使用也一样。

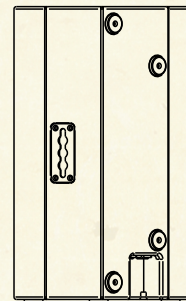
结构图纸 Construction Drawing:



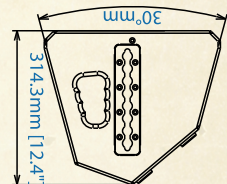
主视图



侧视图



侧视图



顶视图

外观设计可能有所改变
Cosmetic change may be made

技术指标 Technical data & Inteoduction:

型号 Model	LM12
类型 TYPE	COMPACT, TWO-WAY PASSIVE 被动两分频全频
单元组成 Drivers	LF:1X12"(300mm)/3"(75mm)Voice-coil HF:1X1.5"(35mm)exit/3"(75mm)Voice-coil
频率响应 (+/-3dB) Frequency Response(+/-3dB)	60-19000Hz
覆盖角度 (-6dB) Dispersion(-6dB)	75x50(可旋转)
灵敏度 (1m/1W) Sensitivity(1m/1W)	101dB
输出声压级 maximum SPL	127.4dB continuous/133.4dB
额定阻抗 Nominal Impedance	8 Ohms
功率 Rated Power	700W AES / 1400W PEAK
推荐放大器功率 Recommended AMP	800W-1100W@8 Ohms
分频点 Crossover Frequency	1800Hz
输入连接器 Connectors	2x Neutrik NI4MP
产品尺寸 (HxWxD) Dimensions (HxWxD)	604mm x 360mm x 314mm
包装尺寸 (HxWxD) Packing Dimensions (HxWxD)	620mm x 370mm x 325mm
净重量 Net Weight	22kg
包装总重量 Gross Weight	24kg
箱体材料 Enclosure Material	优质高密度优质夹板
箱体网面 Enclosure Material	外透特制网棉，内圆形钢网
表面喷涂 Finish	黑色耐磨环保水性阻燃漆喷料 (可定制颜色)
吊装点 Hanging Position	M8螺丝及特殊吊装孔位
支撑座 Pole Mount	合金材质@35毫米标准底部支撑座
适用范围 Applications	音乐厅，多功能厅，礼堂，礼堂



LM15是800W的二分频音箱,音质清晰,穿透力强,声压高,具有很好的音乐人声表现力。

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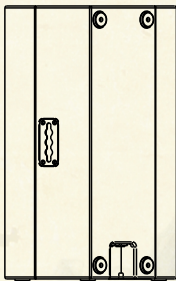
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结构图纸 Construction Drawing:



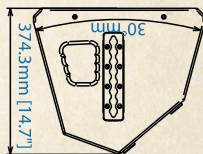
主视图



侧视图



侧视图



底视图

外观设计可能有所改变
Cosmetic change may be made

技术指标 Technical data & Inteoduction:

型号 Model	LM15
类型 TYPE	COMPACT, TWO-WAY PASSIVE 被动两分频全频
单元组成 Drivers	LF:1X15" (380mm)/3" (75mm) Voice-coil HF:1X1.5" (34mm) exit/3" (75mm) Voice-coil
频率响应 (+/-3dB) Frequency Response(+/-3dB)	50-19000Hz
覆盖角度 (-6dB) Dispersion(-6dB)	75x50(可旋转)
灵敏度 (1m/1W) Sensitivity(1m/1W)	99dB
输出声压级 maximum SPL	126.4dB continuous/132.4dB
额定阻抗 Nominal Impedance	8 Ohms
功率 Rated Power	800W AES / 2400W PEAK
推荐放大器功率 Recommended AMP	800W-1100W@8 Ohms
分频点 Crossover Frequency	1800Hz
输入连接器 Connectors	2x Neutrik NL4MP
产品尺寸 (HxWxD) Dimensions (HxWxD)	706mm x 440mm x 374mm
包装尺寸 (HxWxD) Packing Dimensions (HxWxD)	720mm x 450mm x 385mm
净重量 Net Weight	26kg
包装总重量 Gross Weight	32kg
箱体材料 Enclosure Material	优质高密度桦木夹板
箱体网面 Enclosure Material	外透特制网棉, 内圆形钢网
表面喷涂 Finish	黑色耐磨环保水性阻燃漆喷料 (可定制颜色)
吊装点 Handing Position	M8螺丝及特殊吊装孔位
支撑座 Pole Mount	合金材质@35毫米标准底部支撑座
适用范围 Applications	音乐厅, 多功能厅, 礼堂, 礼堂



在研发LA10+ 的过程中我们意识到,这种线性阵列不会仅用在

中小型场所扩声,更多的是举办有数千名听众的大型活动时使用。

很清楚,这种系统需要有动力更强大的超低音作为支持。显然,市场上最佳的超低音扬声器需要满足这些新的要求,特别是产品要与

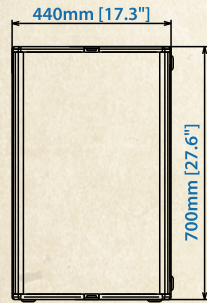
LA10+ 产品相结合: LA30S 的设计不仅采用混合结构。如果要在电子和声学方面完全兼容,那需要更多的构思。此外,我们已采用新

开发的长冲程单元和特别坚固、抗风化性涂料,使LA30S 满足了各种新的要求。LA30S 集合了悬挂系统,但总重量只有42 千克,采用

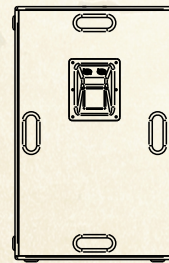
悬挂式低音阵列结构,可以竖挂或横挂在LA10+ 系统的后面或侧面。我们还能毫无问题地将中间一只LA30S 旋转180°来组成超低阵列,使超低音产生指向性。另外,它也可以构成立体基础结构用于LA10+将四只LA30S

叠放,在上面可叠放多达8 个LA10+ 单元。只要把它们全部叠放在一起便成功了通过切换器进行主动和被动分频模式的选择。

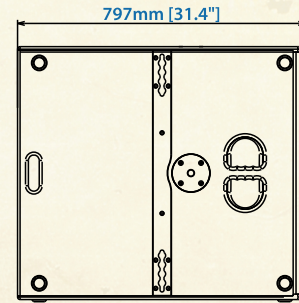
结构图纸 Construction Drawing:



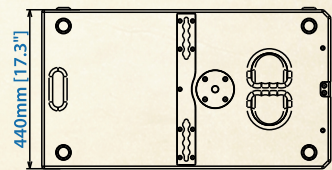
主视图



后视图



顶视图



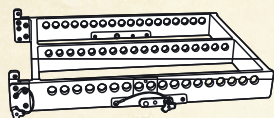
侧视图

外观设计可能有所改变
Cosmetic change may be made

技术指标 Technical data & Inteoduction:

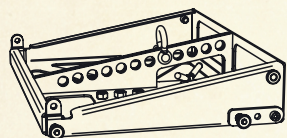
型号: LA30S	Model: LA30S
单元类型:2 x15"	Drivers:2 x 15"
频率范围 (±3dB): 32-200Hz	Frequency range: 35 - 200 Hz
额定功率 (节目/峰值) : 2000/4000W	Power capacity programm / peak: 2000 / 4000 W
阻抗 : 8 Ohm	Impedance: 8 ohms
灵敏度1W/1M: 98dB	Sensitivity 1 W / 1 m: 98 dB
最大声压级 (1M): 135dB	SPLmax / 1 m / peak: 135 dB
接口: 2 Speakon NL4, Pin2 connected	Connectors: 2 Speakon NL4
外形尺寸 (高 x 宽 x 深) : 446x 706 x 800mm	Dimensions (h x w x d): 446 x 706 x 800 mm
重量:42kg	Weight: 42 kg
涂层:聚氨酯喷漆	Finish: polyurethane coating
可选项:RAL颜色可选(Warnex结构漆)	Options:RAL colours

RIGGING



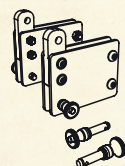
LA MINI RF300

Rigging Frame for LA10+ / LA15S / LA24, to hang up to eighteen LA10+ based on BGVC1, can also be used as ground stacking frame for up to eight LA10+, incl. connection ear and self-lock pins, dimensions 690 × 580 × 110 mm, weight 19 kg



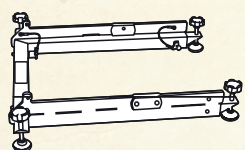
LA MINI UF10

Universal frame for up to four VERA10 to place on tripod with HSF or to hang arrays up to 120 kg consisting of LA10+ / LA15S / LA24. Additional M20 connector to mount on top of every subwoofer with M20 flange, dimensions 500 × 380 × 110 mm, weight 6 kg



LA MINI RFEX

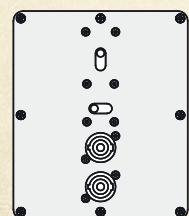
Adapter to extend the RF300 rearside to hang up to eight LA18S subwoofers in an array according to BGV-C1, incl. screws



LA MINI GF10

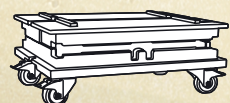
Ground frame for LA10+ / LA15S / LA24, with extendable and adjustable spindles for tilt resistant setup and height compensation, dimensions 690 × 620 × 150 mm, weight 13.5 kg

LA10+



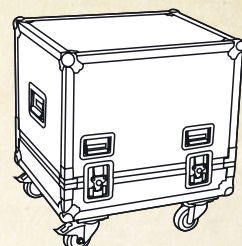
PWLA10

Passive option, internal passive crossover to either operate LA10+ top in passive mode at one amplifier channel (nominal impedance 12 Ω), switchable to active mode (bi-amped), switchable high shelf attenuator 0 / -3 / -6 dB, weight 1 kg



LA MINI DL10

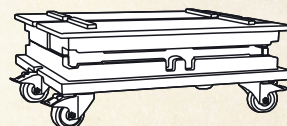
2-part dolly with top and base part to transport up to twelve LA10+ plus RF300, four 100 mm swivel castors with brakes, dimensions 800 × 600 × 325 mm, weight 26.5 kg



Case LA10+

Flightcase for four LA10+ and one RF300, professional version made of black PVC laminated 9 mm birch plywood, high quality interior fittings, four 100 mm swivel castors, with brakes, six recessed sprung handles, dimensions 800 × 670 × 910 mm, weight 43 kg

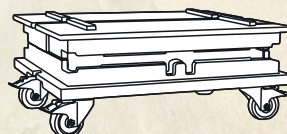
LA 24



LA MINI LA 24

2-parts dolly with top and base part to transport up to six LA24 plus RF300, four 100 mm swivel castors with brakes, dimensions 1200 × 600 × 320 mm, weight 29 kg

LA15S



LA MINI LA15S

2-parts dolly with top and base part to transport up to six LA15S, four 100 mm swivel castors with brakes, dimensions 1200 × 600 × 320 mm, weight 29 kg

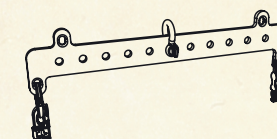
LA18S



LA MINI LA18S

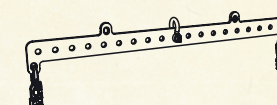
Dolly to transport up to three LA18S, subwoofer stacked on top of each other, four 100 mm swivel castors with brakes, four carrying handles, dimensions 800 × 500 × 150 mm, weight 9.6 kg

LA MINI LA30S



CBH30S

Cradlebar with two double studs and locking splints for flying of LA30S subwoofer in upright direction, incl. one shackle SK10, dimensions 495 × 93 × 8 mm, weight 2.1 kg



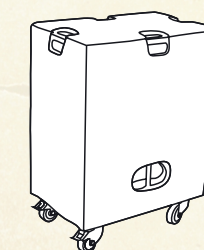
CBQ30S

Cradlebar with two double studs and locking splints for flying of LA30S subwoofer in crosswise direction, incl. one shackle SK10, dimensions 755 × 93 × 8 mm, weight 2.8 kg



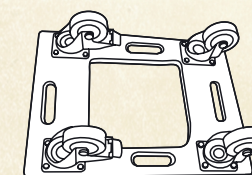
BLLA24

Boxlink connection steel with double studs and locking splints to install LA24 / LA30S below each other, steel capacity 135 kg based on BGV-C1 with safety factor 10, dimensions 280 × 30 × 30 mm, weight 0.3 kg



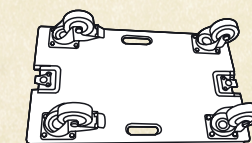
Cover LA30S

Protective cover professional version made of black polyester with inner foam to cover LA30S when transported on FDLA30S



QDLA30S

Dolly to transport up to four LA30S subwoofers stacked on top of each other, four swivel castors with brakes, four carrying handles, dimensions 800 × 700 × 150 mm, weight 9.6 kg



FDLA30S

Dolly to mount on LA30S and LA24 front, four 100 mm swivel castors, thereof two with brakes, two butterfly catches, four carrying handles, dimensions 700 × 440 × 170 mm, weight 9 kg