



LAB 10000Q



LAB 14000



技术参数

	LAB 10000Q	LAB 14000
总功率		
通道数	4	2
所有通道驱动时峰值总输出:	10000W	14000W
每通道峰值输出电压:	150V	195V
每通道最大输出电流:	50A 峰值	90A 峰值
所有通道驱动时最大输出功率:		
16 Ω	660 W	1200W
8 Ω	1300 W	2350W
4 Ω	2100 W	4400W
2 Ω	2500 W	7000W
桥接时最大输出功率		
16 Ω	2600 W	4700W
8 Ω	4200 W	8800W
4 Ω	5000 W	14000W
2 Ω	不推荐	不推荐
性能		
THD 20 Hz - 20 kHz at 1W<0.1%		
THD at 1 kHz and 1 dB below clipping <0.05%		
信噪比 >112 dBA		
通道隔离 (每音) at 1 kHz >70dB		
输入阻抗 20 kΩ		
输出阻抗 @100Hz 32 mΩ		
默认增益	35 dB	39dB
功率		
工作电压, 230 V / 115 V 标称 130-265 V / 65-135 V		
最小开机电压, 230 V / 115 V 171 V / 85 V		
接口类型		
输出: 4 x 4 针 Neutrik speaker(NL4)		
输入: 4 x XLR 平衡式		
尺寸	宽: 483 mm (19") 高: 88 mm (2 U) 深: 396 mm (15.6")	宽: 483 mm (19") 高: 88 mm (2 U) 深: 396 mm (15.6")
重量	12kg (26.4 lbs)	12kg (26.4 lbs)

SPECIFICATIONS

	LAB 10000Q	LAB 14000
General		
Number of channel	4	2
Peak total output all channels driven: 10000 W		14000W
Peak output voltage per channel: 150 V		195V
Max output current per channel: 50 A peak		90A peak
Max output power all channels drive		
16 Ω	660 W	1200W
8 Ω	1300 W	2350W
4 Ω	2100 W	4400W
2 Ω	2500 W	7000W
Max output power bridged		
16 Ω	2600 W	4700W
8 Ω	4200 W	8800W
4 Ω	5000 W	14000W
2 Ω	Not recommended	Not recommended
Performance		
THD 20 Hz - 20 kHz at 1W<0.1%		
THD at 1 kHz and 1 dB below clipping <0.05%		
Signal to Noise Ratio >112 dBA		
Channel separation (Crosstalk) at 1 kHz >70 dB		
Input impedance 20 kΩ		
Output impedance @ 100 Hz 32 mΩ		
Default gain	35 dB	39dB
Power		
Operating voltage, 230 V / 115 V nominal 130-265 V / 65-135 V		
Minimum power-up voltage, 230 V / 115 V 171 V / 85 V		
Connectors		
Output: 4 x 4-pin Neutrik speaker(NL4)		
Input: 4 x XLR (balanced)		
Dimensions	W: 483 mm (19") H: 88 mm (2 U) D: 396 mm (15.6")	W: 483 mm (19") H: 88 mm (2 U) D: 396 mm (15.6")
Weight	12 kg (26.4 lbs)	12 kg (26.4 lbs)

技术参数

输入
电子平衡式
标配: AES/EBU接口
阻抗: >10k ohms CMRR >65dB 50Hz - 10kHz

输出
电子平衡式
标配: AES/EBU接口
声源阻抗: < 60 Ω
最小负载: 600 Ω
最大声压级: +20dBm, 在 600 Ω 负载下
采样率: 内插采样率最高达 96kHz, 可接受及转换采样率最高为 192kHz
频率响应: ±0.5dB 10Hz - 20kHz
动态范围: >116dB 20Hz - 20kHz Unwtd
失真: < 0.001% @ 1kHz, +10dBm
最大延时: 650 ms (步进 0.325 μs)
输出增益调节: +15dB 至 -40dB, 以 0.1 dB 步进及静音

均衡
滤波器参数: 8 每输入 / 9 每输出
每个输入/输出外的滤波器, 28 段图形均衡
每个参数可切换为带通, 全通, 点阻, 可变 Q, Shelf 及非典型响应
相位滤波器: 在每个输入及输出之间以 2 度步进

分频滤波器
Bessel / Butterworth 6/12/18/24/48dB 每倍频程
及 Linkwitz-Riley 12/24/48dB 每倍频程

限幅器
阈值: +2dBu 至 -10dBu
启动时间: 0.3 至 90 毫秒
释放时间: 4, 8, 16 或 32 倍于启动时间

接口类型
输入: 3 针 XLR 母插
输出: 3 针 XLR 公插
RS485: 进/出 XLRs
RS232: 9 针 (母插) D 连接器

电源
3 针 IEC
电源: 60VAC - 240VAC
消耗: < 40 watts
重量: 3.5kg

SPECIFICATIONS

Inputs
Electrically balanced (transformers optional)
AES/EBU (selectable) fitted as standard to all X Series units
Impedance >10k ohms CMRR >65dB 50Hz - 10kHz

Outputs
All electrically balanced (transformers optional)
AES/EBU fitted as standard
Source Imp < 60ohms
Minimum Load 600ohm
Maximum Level +20dBm into 600 ohm load
Sampling Rate Up to 96kHz (interpol up to 192kHz can be accepted and converted)
Frequency Response ±0.5dB 10Hz - 20kHz
Dynamic Range >116dB 20Hz - 20kHz Unwtd
Distortion < 0.001% @ 1kHz, +10dBm
Maximum Delay 650 ms (Increment 0.325 μs steps)
Output gain Adjustable -15dB to -40dB in 0.1 dB steps and mute

Equalisation
Filters Parametric - 8 Per input / 9 per output
Additional filters 28-band graphic on each input
Each parametric can be switched to Bandpass, Allpass, Notch, Var-Q, Shelf and Elliptical response
Phase filtering - 2 degree steps on each input and output

Crossover Filters
Bessel / Butterworth 6/12/18/24/48dB per octave
and Linkwitz-Riley 12/24/48dB per octave

Limiter
Threshold -22dBu to -10dBu
Attack Time 0.3 to 90 milliseconds
Release Time 4, 8, 16 or 32 Times the attack time

Connectors
Inputs 3 pin female XLR
Outputs 3 pin male XLR
RS485 In/Out XLRs
RS232 9 Pin (Female) D Connector

Power
3 pin IEC
Power 60VAC - 240VAC
Consumption < 40 watts
Weight 3.5kg

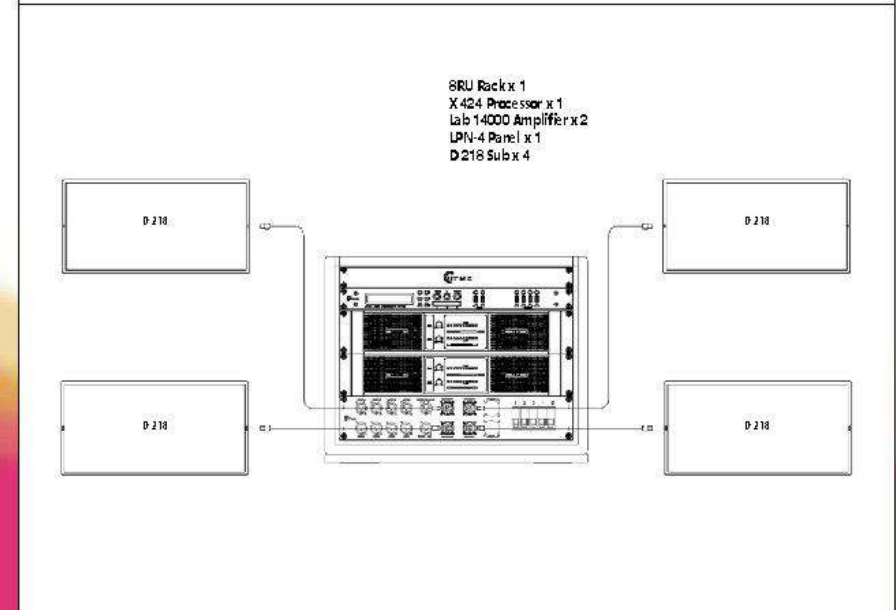
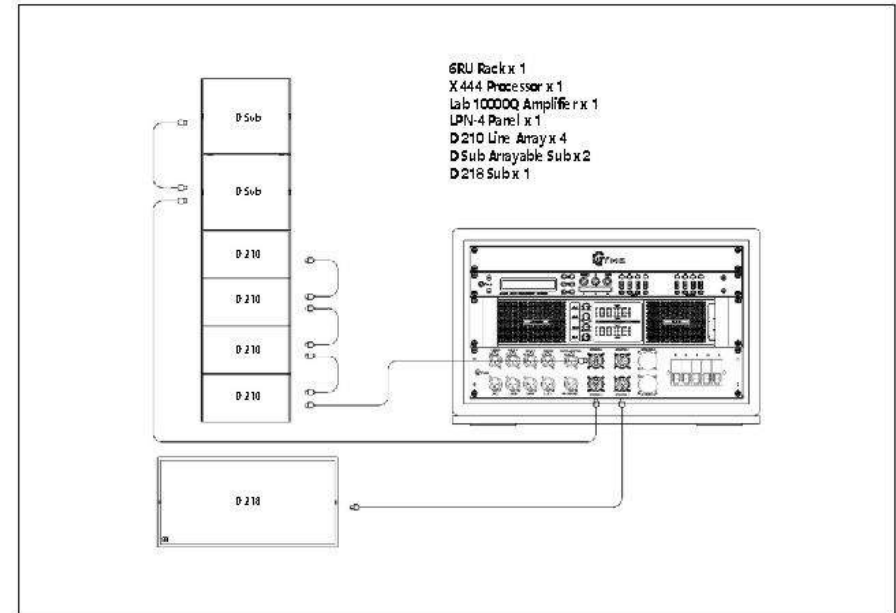


技术参数

频率响应 (-5 dB)	37 - 90 Hz/32 - 68 Hz
最大声压级	136 dB SPL
额定功率 (有效值/10 毫秒钟值)	600/2400 瓦
驱动单元	2 x 18"
标称阻抗	4 Ω
接口类型	1 x 4 针 Neutrik speakon(NL4)
箱体	
高 x 宽 x 深	1160 x 580 x 920mm (45.6 x 22.8 x 36.24 in)
重量	102kg(225 lbs)

SPECIFICATIONS

Frequency response (-5 dB)	37 - 90 Hz/32 - 68 Hz
Max. SPL	136 dB SPL
Power Rating (RMS/peak 10 ms)	600/2400 W
Drivers	2 x 18"
Impedance	4 Ω
Connectors	1 x 4-pin Neutrik speakon(NL4)
Enclosure	
H x W x D	1160 x 580 x 920mm (45.6 x 22.8 x 36.24 in)
Weight	102kg(225 lbs)

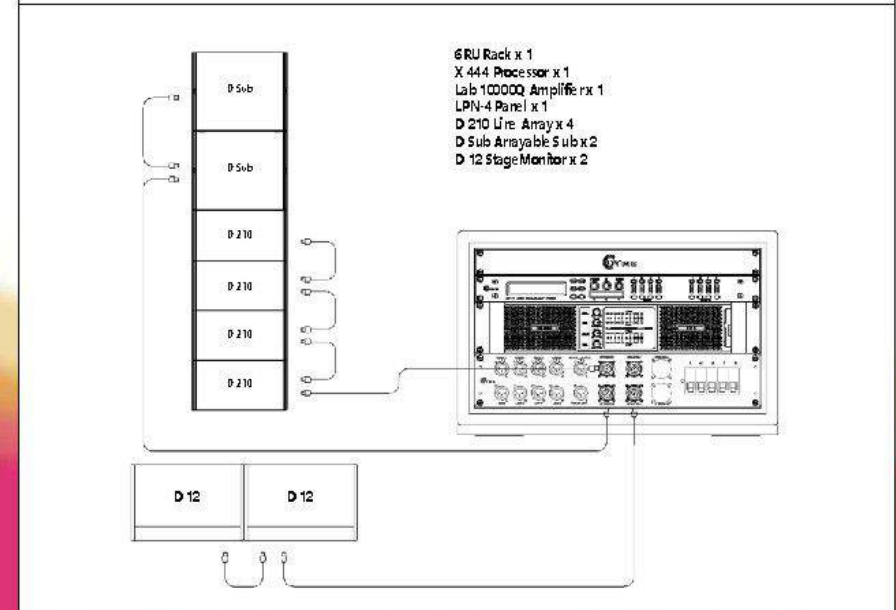
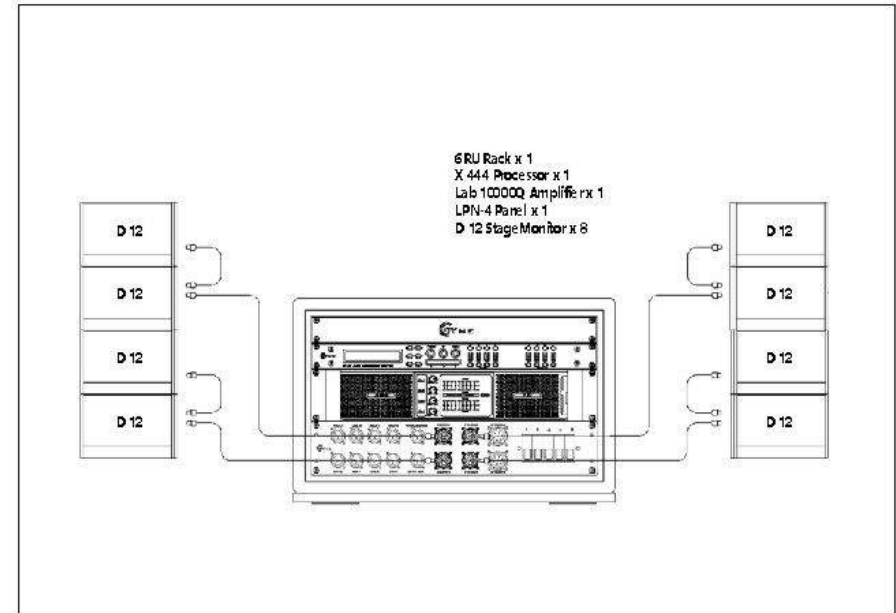


技术参数

频率响应 (-5 dB)	65 Hz - 18 kHz
覆盖角度 (水平 x 垂直)	80° 同轴
最大声压级	135 dB SPL
额定功率 (RMS/峰值 10ms)	250/1200 W
驱动单元	1 × 12" 单元 / 1 × 2" 同轴安装压缩单元
标称阻抗	8 Ω
接口类型	2 × 4 针 Neutrik speakon(NL4)
箱体	
高 × 宽 × 深	324 × 486 × 425 mm (12.8 × 19.1 × 16.73 in)
重量	22 kg (48 lbs)

SPECIFICATIONS

Frequency response (-5 dB)	65 Hz - 18 kHz
Coverage angle (h x v)	80° conical
Max. SPL	135 dB SPL
Power Rating (RMS/peak 10 ms)	250/1200 W
Drivers	1 × 12" driver/ 1 × 2" coaxial mounted compression driver
Impedance	8 Ω
Connectors	2 × 4-pin Neutrik speakon(NL4)
Enclosure	
H × W × D	324 × 486 × 425 mm (12.8 × 19.1 × 16.73 in)
Weight	22 kg (48 lbs)

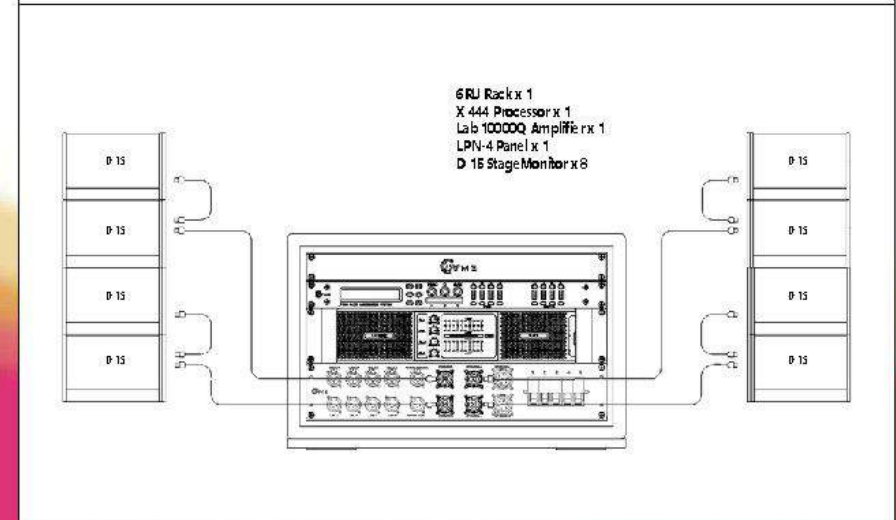
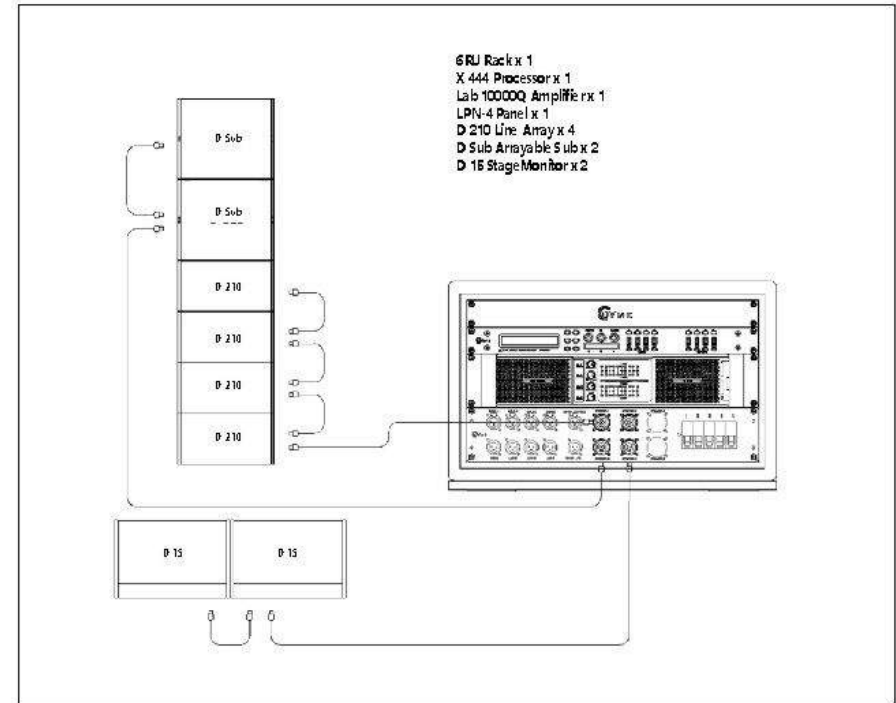


技术参数

频率响应 (-5 dB)	55 Hz - 18 kHz
覆盖角度 (水平 x 垂直)	60° 同轴
最大声压级	136 dB SPL
额定功率 (RMS/峰值 10ms)	250/1200 W
驱动单元	1 x 15" 单元 / 1 x 2" 同轴安装压缩单元
标称阻抗	8 Ω
接口类型	2 x 4 针 Neutrik speakon(NL4)
箱体	
高 x 宽 x 深	392 x 580 x 507 mm (15.4 x 22.8 x 20 in)
重量	26kg(57 lbs)

SPECIFICATIONS

Frequency response (-5 dB)	55 Hz - 18 kHz
Coverage (h x v)	60° conical
Max. SPL	136 dB SPL
Power Rating (RMS/peak 10 ms)	250/1200 W
Drivers	1 x 15" driver / 1 x 2" coaxial mounted compression driver
Impedance	8 Ω
Connectors	1 x 4-pin Neutrik speakon(NL4)
Enclosure	
H x W x D	392 x 580 x 507mm (15.4 x 22.8 x 20 in)
Weight	26kg(57 lbs)

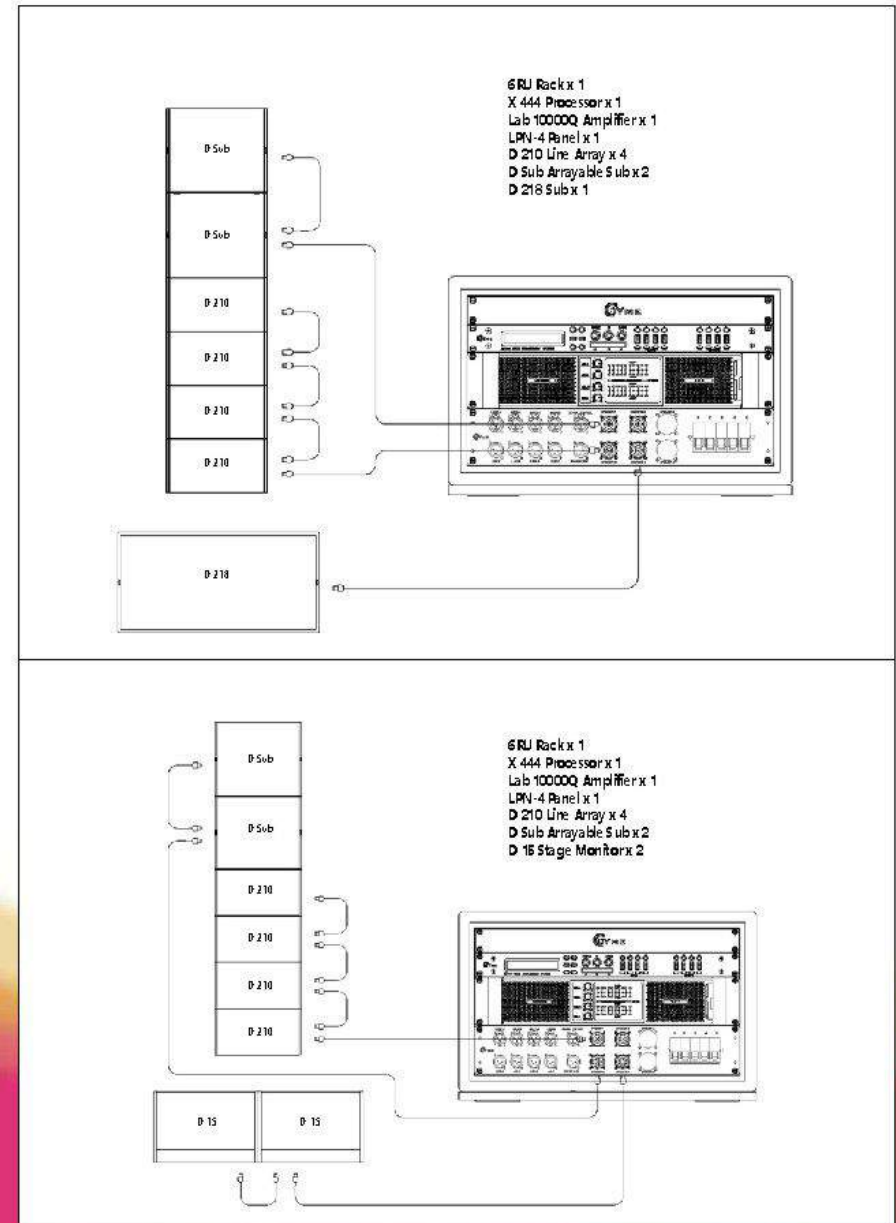


技术参数

频率响应 (-5 dB)	40 Hz - 130/100 Hz
最大声压级	133 dB SPL
额定功率 (RMS/峰值 10ms)	400/1600 瓦
驱动单元	1 × 18"
标称阻抗	8 Ω
接口类型	2 × 4 针 Neutrik speakon(NL4)
箱体	
高 × 宽 × 深	493 × 580 × 668mm (19.4 × 22.8 × 26.33 in)
重量	42kg(93 lbs)

SPECIFICATIONS

Frequency response (-5 dB)	40 Hz - 130/100 Hz
Max. SPL	133 dB SPL
Power Rating (RMS/peak 10 ms)	400/1600 W
Drivers	1 × 18"
Impedance	8 Ω
Connectors	2 × 4-pin Neutrik speakon(NL4)
Enclosure	
H × W × D	493 × 580 × 668mm (19.4 × 22.8 × 26.33 in)
Weight	42kg(93 lbs)



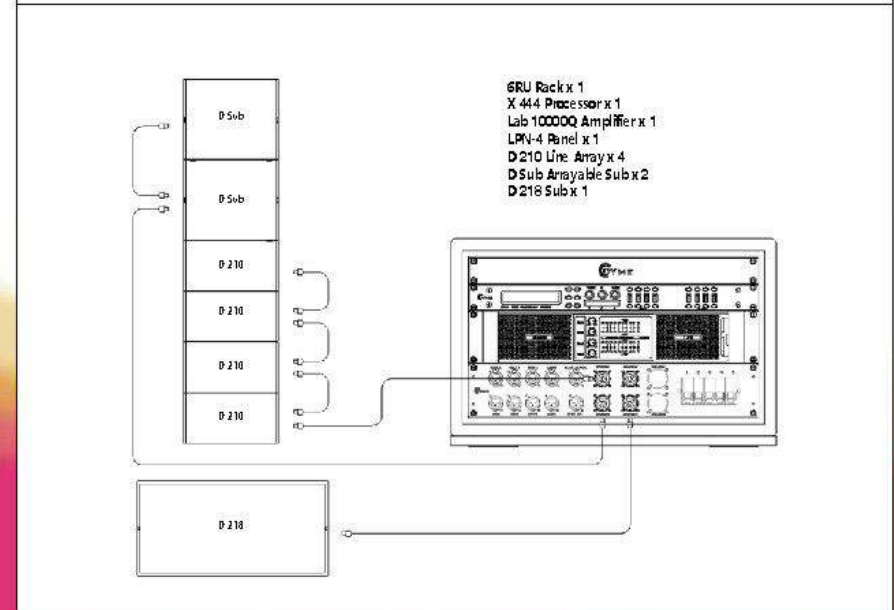
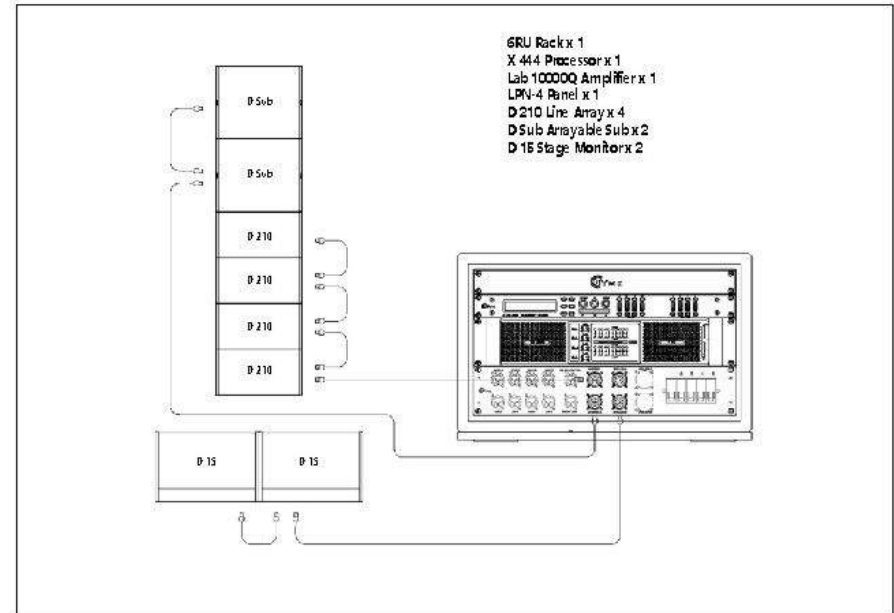
技术参数



频率响应 (-5dB)	60/100 Hz - 17 kHz
覆盖角度 (水平 x 垂直)	75° x 15°
最大声压级	139 dB SPL
额定功率 (RMS/峰值 10ms)	400/1600 瓦
驱动单元	低频: 2 x 10" 高频: 1 x 1.3"
标称阻抗	低频: 16 Ω 高频: 16 Ω
接口类型	2 x 4 针 Neutrik speakon(NL4)
箱体	
高 x 宽 x 深	308 x 580 x 410 mm (12.1 x 22.8 x 16.1 in)
重量	22kg(49 lbs)

SPECIFICATIONS

Frequency response (-5 dB)	60/100 Hz - 17 kHz
Coverage angle (H x V)	75° x 15°
Max. SPL	139 dB SPL
Power Rating (RMS/peak 10 ms)	400/1600 W
Drivers	LF: 2 x 10" HF: 1 x 1.3"
Impedance	LF: 16 Ω HF: 16 Ω
Connectors	2 x 4-pin Neutrik speakon(NL4)
Enclosure	
H x W x D	308 x 580 x 410mm (12.1 x 22.8 x 16.1 in)
Weight	22kg(49 lbs)

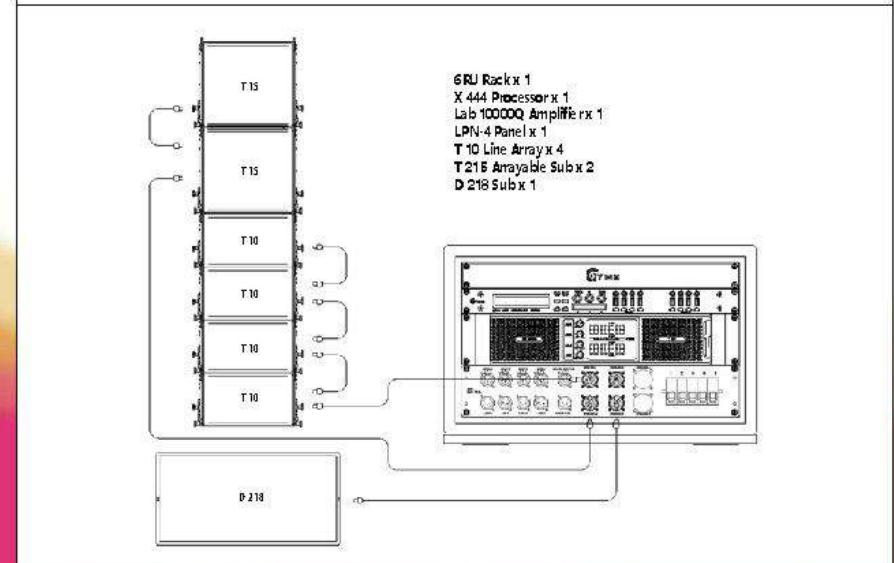
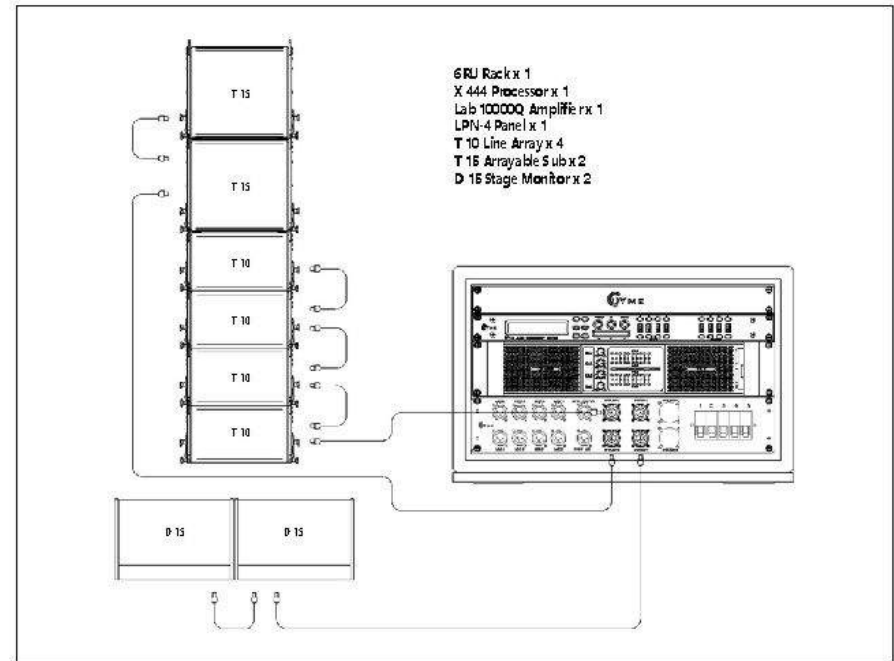


技术参数

频率范围 (±3dB)	40-1500Hz
最大声压级 (1M)	127dB
额定功率 (节目/峰值)	1200 / 2000W
驱动单元	1×15"
阻抗	8Ω
接口	2×4 针 Neutrik Speakon (NL4)
箱体尺寸 (高×宽×深)	446×500×560 mm (17.6×19.7×22.1 in)
重量	23 kg (50.7 lbs)

SPECIFICATIONS

Frequency Response (±3dB)	40-1500Hz
Max SPL	127dB
Power Rating (Program/Peak)	1200 / 2000W
Drivers	1×15"
Impedance	8Ω
Connectors	2×4-pin Neutrik Speakon (NL4)
Enclosure Dimension (W×H×D)	446×500×560 mm (17.6×19.7×22.1 in)
Weight	23 kg (50.7 lbs)

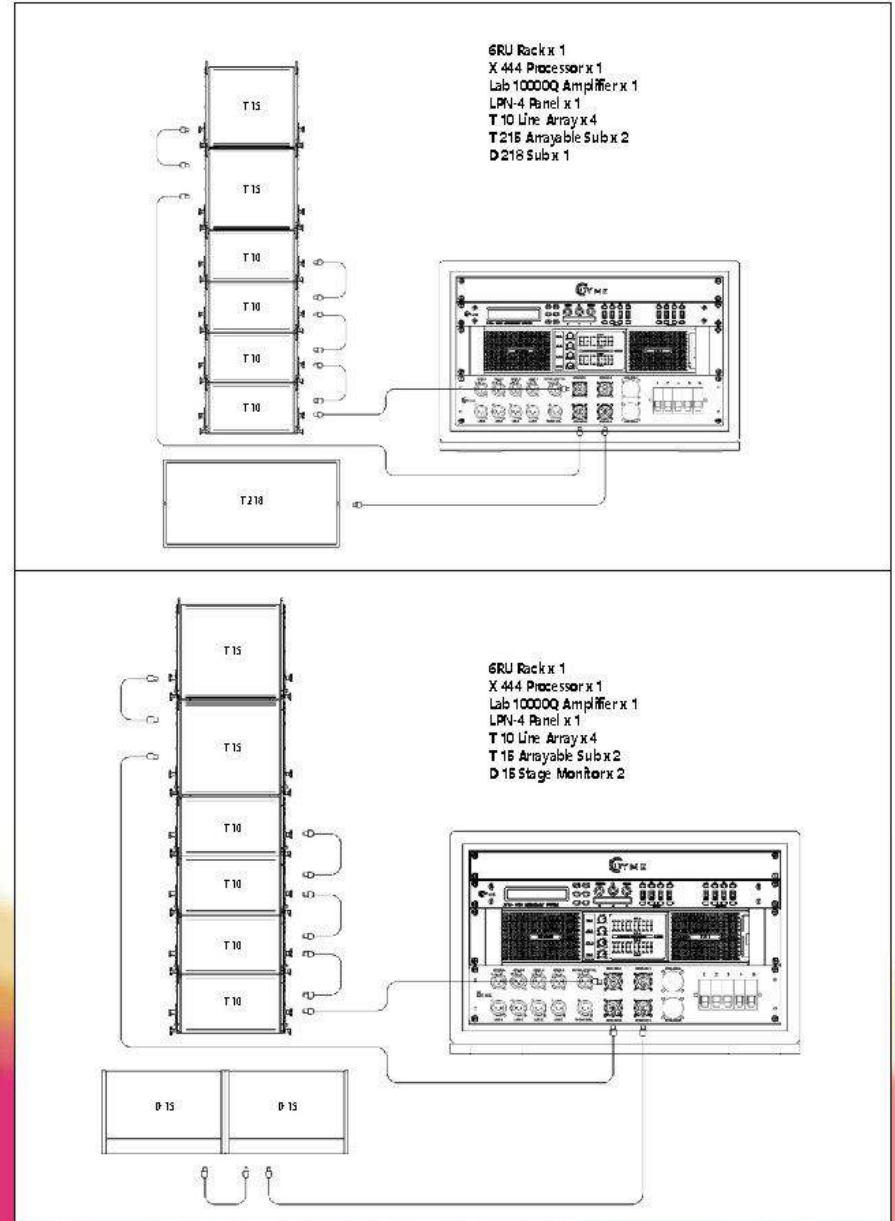


技术参数

频率响应 (±3dB)	60-15000Hz
覆盖角度 (水平 × 垂直)	80° 或 120° × 10°
最大声压级	133dB
额定功率 (节目 / 峰值)	600/1200W(无源) 500/1000W(双功放, 低频) 200/400(双功放, 高频)
驱动单元	低频: 1 × 10" 高频: 2 × 1"
标称阻抗	低频: 16 Ω 高频: 16 Ω
接口类型	2 × 4 针 Neutrik Speakon (NL4)
箱体	
高 × 宽 × 深	275 × 500 × 355 mm (10.8 × 19.7 × 14.00 in)
重量	16.9kg (39.7 lbs)
涂层	聚氨基酯喷漆

SPECIFICATIONS

Frequency Response	60 - 15000 Hz
Coverage angle (h x v)	80° or 120° × 10°
Max. SPL(1M)	133 dB
Power Rating (program/peak)	600 / 1200 W with internal cross-over passive 500 / 1000 W biamped LF 200 / 400 W biamped HF
Drivers	LF : 1 × 10" HF : 2 × 1"
Impedance	LF : 16 Ω HF : 16 Ω
Connectors	2 × 4-pin Neutrik speakon(NL4)
Enclosure	
H × W × D	275 × 500 × 355 mm (10.8 × 19.7 × 14.00 in)
Weight	16.9 kg (39.7 lbs)
Finish	polyurethane coating

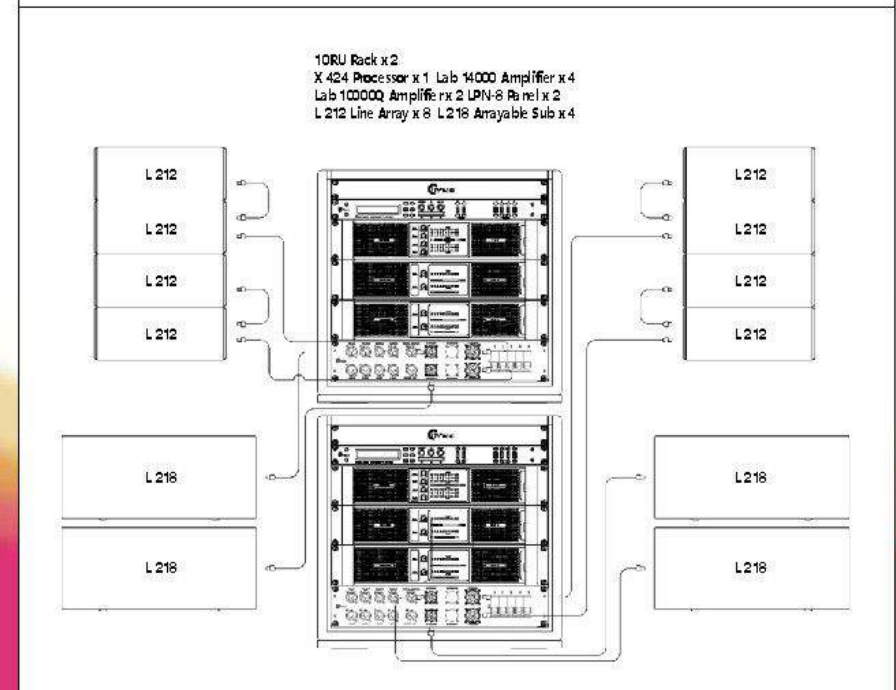
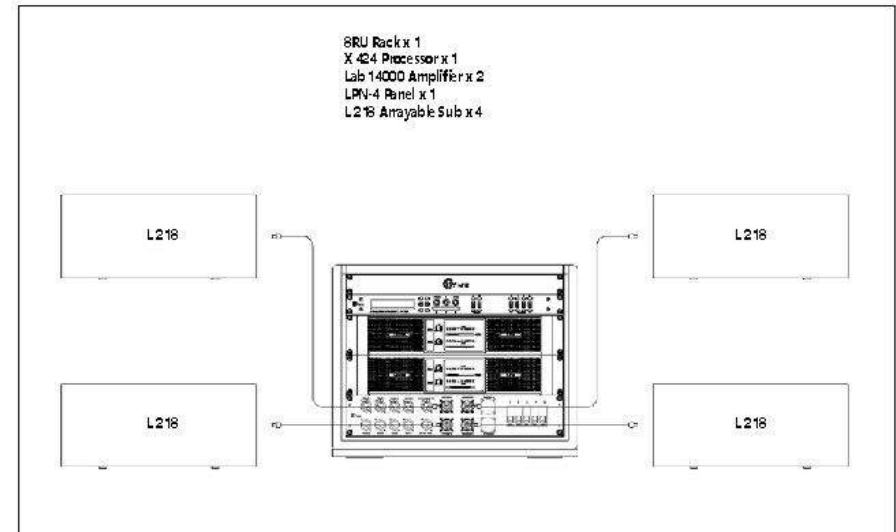
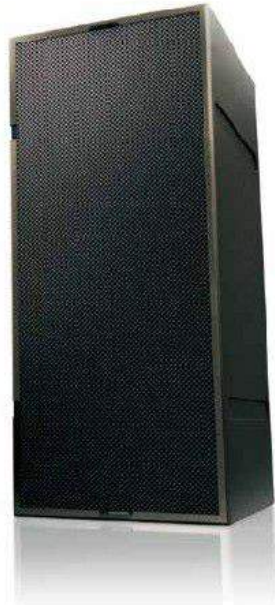


技术参数

低频下限 (-10dB)	25 Hz
最大声压级	140 dB
额定功率	1225W
驱动单元	低频: 2 × 18"
标称阻抗	4 Ω
接口类型	1 × 4 针 Neutrik speakon (NL4)
箱体	
宽 × 高 × 深	1300 × 550 × 700mm (51.2 × 21.7 × 27.6 in)
重量(净重)	93 kg (205 lbs)
材料	18 和 24mm 多层桦木夹板
外观	棕灰色
前面	聚酯粉末涂钢网, 声学透明衬布

SPECIFICATIONS

Low frequency limit(-10dB)	25 Hz
Maximum SPL	140 dB
Frequency Response	1225W
Drivers	LF: 2 × 18"
Impedance	4 Ω
Connectors	1 × 4-pin Neutrik speakon(NL4)
Enclosure	
W × H × D	1300 × 550 × 700mm (51.2 × 21.7 × 27.6in)
Weight (net)	93 kg (205 lbs)
Material	18 and 24mm Baltic birch plywood
Finish	Grayish-brown
Front	polyester powder-coated steel grill acoustically neutral fabric

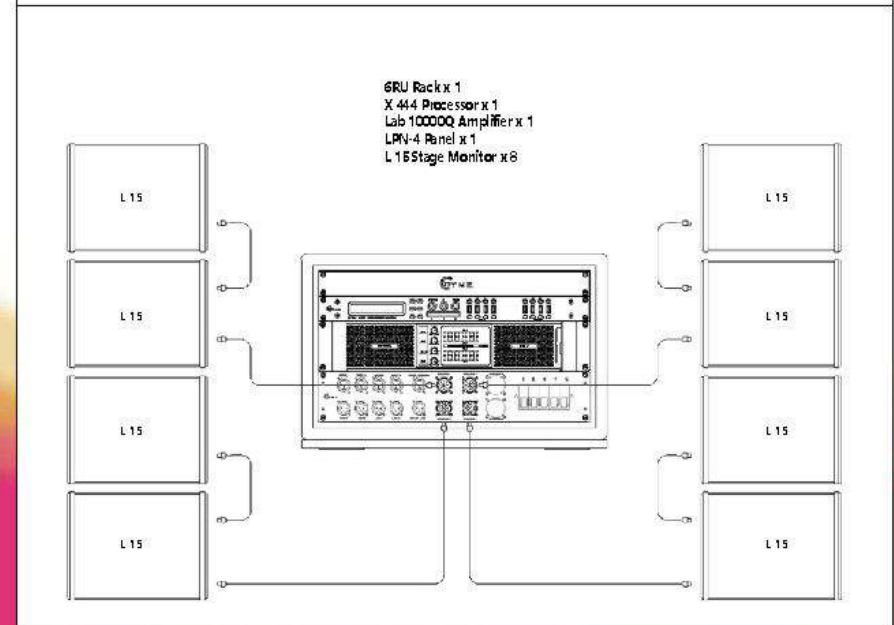
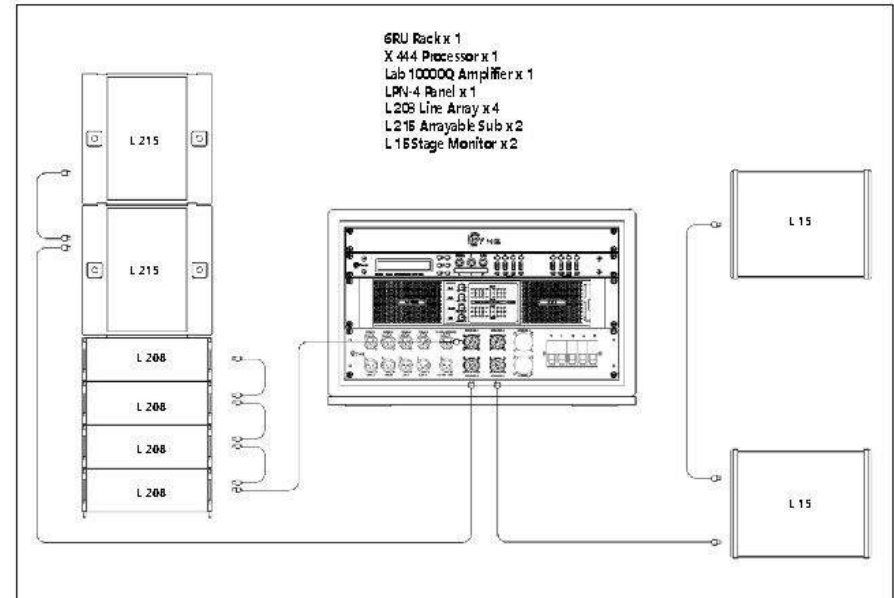
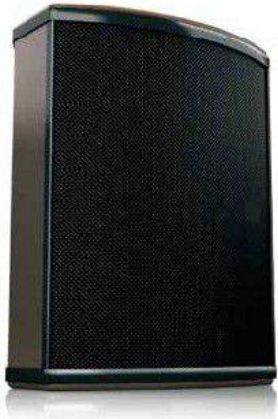


技术参数

频率响应 (-10dB)	50 Hz-20kHz
覆盖角度 (-6dB)	50°轴对称
最大声压级	139.5 dB(MO) 136.5 dB(FI)
额定功率	低频: 450W 高频: 125W
驱动单元	低频: 1×15" 高频: 1×3"
标称阻抗	低频: 8 Ω 高频: 8 Ω
接口类型	2×4 针 Neutrik speakon (NL4)
箱体	
高×宽×深	365×580×440 mm (14.4×22.8×17.3 in)
楔角	30°或60°, 垂直
重量(净重)	28.5kg (62.8lbs)
材料	18, 24 及 30mm 桦木夹板
外观	棕灰色
前面	聚酯粉末涂钢网, 声学透明的衬布

SPECIFICATIONS

Frequency Response (-10dB)	50 Hz - 20 kHz
Coverage angle (-6dB)	50° Axis-symmetric
Maximum SPL	139.5 dB
Power Rating	LF: 450 W HF: 125 W
Drivers	LF: 1×15" HF: 1×3"
Impedance	LF: 8 Ω HF: 8 Ω
Connectors	2×4-pin Neutrik speakon (NL4)
Enclosure	
H×W×D	365×580×440 mm (14.4×22.8×17.3 in)
Wedge angle	30° or 60° from vertical
Weight (net)	28.5 kg (62.8 lbs)
Material	18, 24 and 30 mm Baltic birch plywood
Finish	Grey-brown
Front	polyester-powder coated steel grill, acoustically transparent cloth



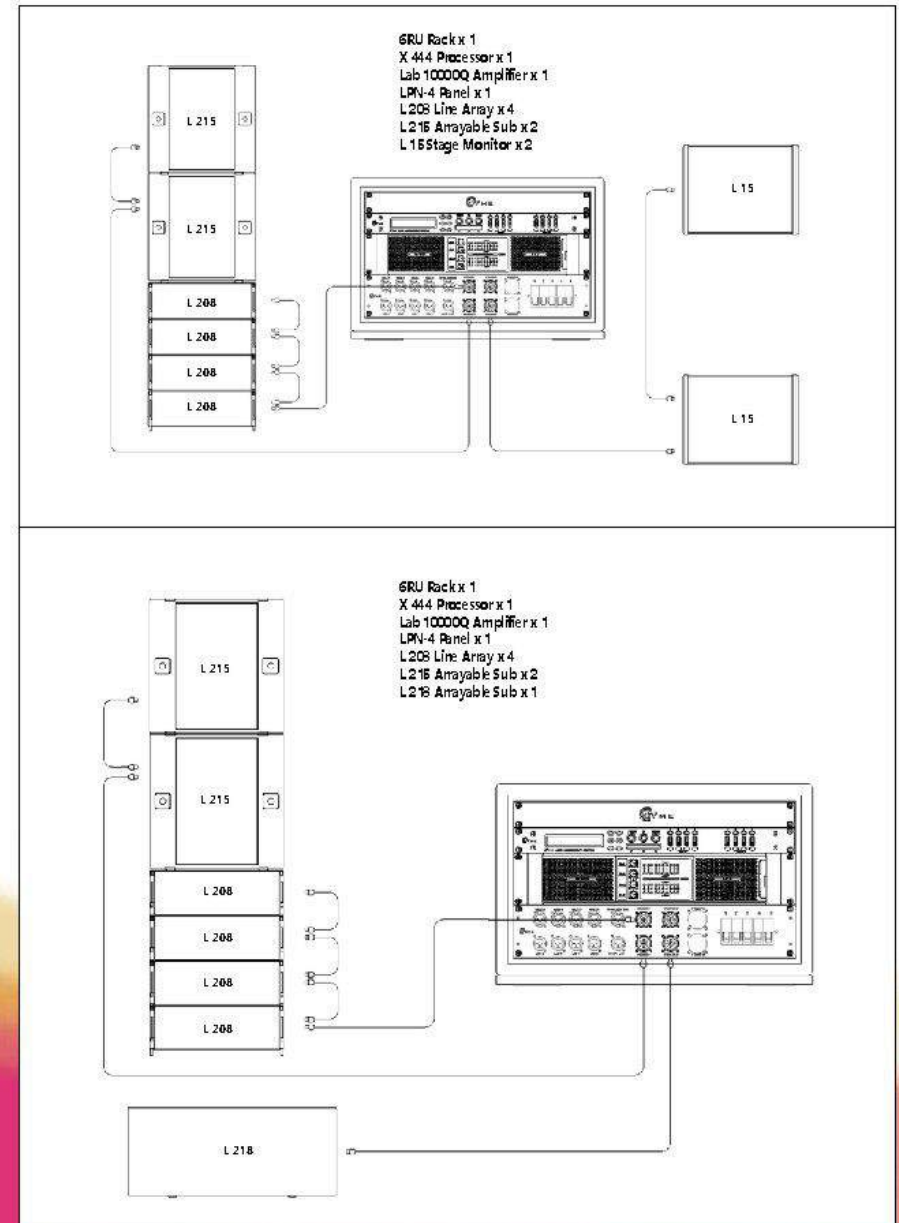


技术参数

频率响应	40-200Hz(±3dB)		
可用低频	35Hz(-10dB)		
额定功率 (长期)	功放 (建议)	阻抗 (标称)	
57 Wrms 1200 Wrms	4800 Wpeak	2400 W	8 Ω
阵列	SPL		
一只箱体	133 dB (连续)	139 db (峰值)	
两只箱体	139 dB (连续)	145 db (峰值)	
四只箱体	145 dB (连续)	151 db (峰值)	
驱动单元	低频: 2 x 15"		
接口类型	2 x 4 针 Neutrik Speakon (NL4)		
箱体	<ul style="list-style-type: none"> • 高: 708 mm (27.9 in) • 宽: 695 mm (27.4 in) • 深: 695 mm (27.4 in) • 净重: 93 kg (205.0 lbs) • 材料: 24 mm 桦木夹板 • 外观: 暗灰色 • 网路: 黑色环氧树脂穿孔孔板, 带声学透明泡沫 		

SPECIFICATIONS

Frequency Response	40 - 200 Hz (± 3 dB)		
Usable Low Frequency	35 Hz (-10 dB)		
Power Rating (Long term)	Amplification (Recommended)	Impedance (Nominal)	
57 Wrms 1200 Wrms	4800 Wpeak	2400 W	8 Ω
Array	SPL		
One enclosure	133 dB (cont)	139 db (peak)	
Two enclosures	139 dB (cont)	145 db (peak)	
Four enclosures	145 dB (cont)	151 db (peak)	
Drivers	LF : 2 x 15"		
Connectors	2 x 4-pin Neutrik Speakon (NL4)		
Enclosure	<ul style="list-style-type: none"> • Height : 708 mm (27.9 in) • Width : 695 mm (27.4 in) • Depth : 695 mm (27.4 in) • Net Weight : 93 kg (205.0 lbs) • Material : 24 mm Baltic birch plywood • Finish : Grey • Grill : Black epoxy coated perforated steel with acoustically transparent foam 		



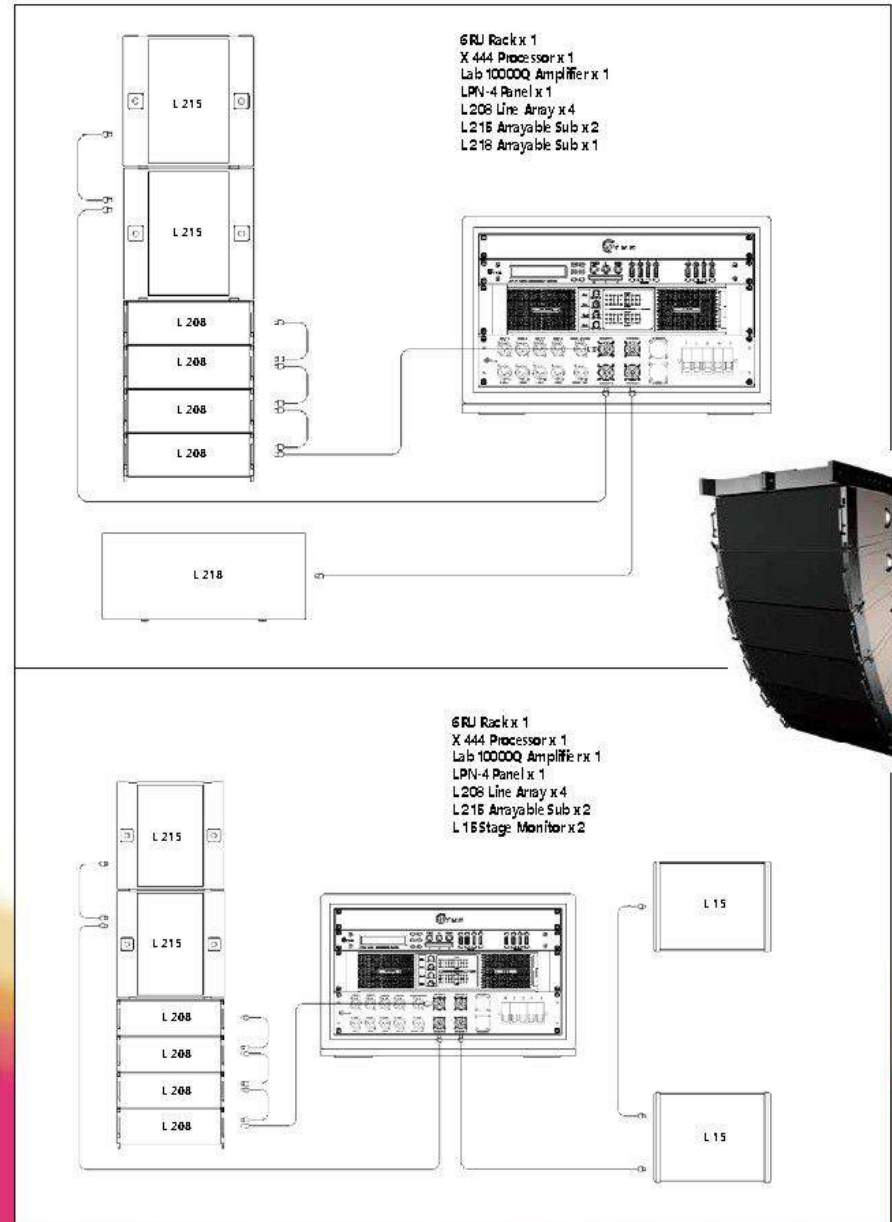


技术参数

频率响应 160—18k Hz (±3 dB)		
覆盖角度 (-6dB) 水平对称: 120°		
垂直: 由阵列定义		
系统输出	连续 SPL (平面阵列)	连续 SPL (最大曲率阵列)
一个箱体	127 dB	127 dB
两个箱体	133 dB	131 dB 15° 垂直覆盖
四个箱体	139 dB	135 dB 30° 垂直覆盖
额定功率 (长期)	功放	阻抗
低频 55 Vrms 380 Wrms 1520 Wpeak	建议	标称
高频 23 Vrms 66 Wrms 260 Wpeak	260 W	16 Ω
驱动单元		
低频: 2 × 8"		
高频: 1 × 1.4"		
接口类型		
2 × 4 针 Neutrik speakon (NL4)		
箱体		
• 宽: 695 mm (27.4 in)		
• 前面高度: 257 mm (10.1 in)		
• 背面高度: 171 mm (6.7 in)		
• 深度: 476 mm (18.7 in)		
• 倾斜角度: 2 × 3.75°		
• 重量 (净重): 31.8 kg (70.1 lbs)		
• 材料: 15 mm, 24 mm 桦木夹板, 铝制顶板及底部金属板		
• 外观: 哑灰色		
• 网布: 黑色环氧树脂穿孔网布, 带声学透明泡沫		

SPECIFICATIONS

Frequency response 160—18k Hz (±3 dB)		
Coverage angle (-6dB) Horizontal symmetrical 120°		
Vertical defined by the array		
System Output	Continuous SPL (flat array)	Continuous SPL (maximum curvature array)
One enclosure	127 dB	127 dB
Two enclosures	133 dB	131 dB 15° vertical coverage
Four enclosures	139 dB	135 dB 30° vertical coverage
Power Rating (Long Term)	Amplification (Recommended)	Impedance (Nominal)
LF 55 Vrms 380 Wrms 1520 Wpeak	760 W	16 Ω
HF 23 Vrms 66 Wrms 260 Wpeak	260 W	16 Ω
Drivers		
LF: 2 × 8"		
HF: 1 × 1.4"		
Connectors		
2 × 4-pin Neutrik speakon (NL4)		
Enclosure		
• Width: 695 mm (27.4 in)		
• Front height: 257 mm (10.1 in)		
• Rear height: 171 mm (6.7 in)		
• Depth: 476 mm (18.7 in)		
• Tri-angle: 2 × 3.75°		
• Net Weight: 31.8 kg (70.1 lbs)		
• Material: 15 mm, 24 mm Baltic birch plywood, aluminum top and bottom plates		
• Finish: Maroon-gray		
• Grill: Black epoxy perforated steel with acoustically-transparent foam		



技术参数



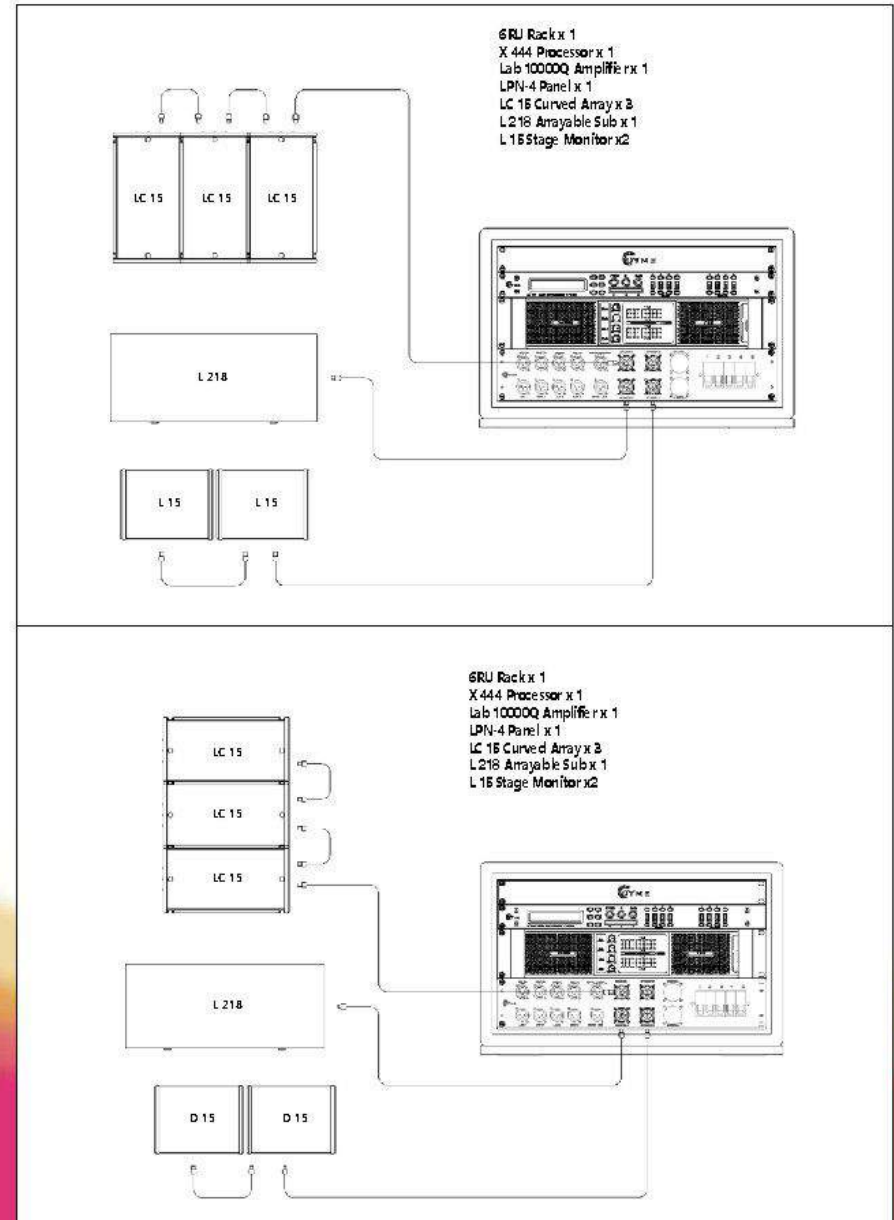
频率响应 (-10dB)	50 Hz - 20 kHz
覆盖角度 (-6dB)	22.5°对称 × 60° 非对称 (-20°/+40°)
最大声压级	140 dB
额定功率	低频: 600W 高频: 100W
驱动单元	低频: 1 × 15" 高频: 1 × 3"
标称阻抗	低频: 8 Ω 高频: 8 Ω
接口类型	2 × 4 针 Neutrik speaker(NL4)

箱体

宽 × 高 × 深	439 × 820 × 652 mm (17.3 × 32.3 × 25.7 in)
重量(净重)	50 kg (110 lbs)
箱体	多层桦木夹板
外观	黑, 灰, 棕色, 前面板网罩带防锈漆

SPECIFICATIONS

Frequency Response (-10dB)	50 Hz - 20 kHz
Coverage angle (-6 dB)	22.5° symmetric × 60° asymmetric (-20°/+40°)
Maximum SPL	140 dB
Power Rating	LF: 600 W HF: 100 W
Drivers	LF: 1 × 15" HF: 1 × 3"
Impedance	LF: 8 Ω HF: 8 Ω
Connectors	2 × 4-pin Neutrik speaker
Enclosure W × H × D	439 × 820 × 652 mm (17.3 × 32.3 × 25.7 in)
Weight (net)	50 kg (110 lbs)
Cabinet	Baltic birch plywood
Finish	Dark grey brown
Front	Steel grill with anti-corrosion coating



技术参数

频率响应 (-10dB)	35 Hz—20 kHz
覆盖角度 (-6dB)	水平: 50° 或 110° 对称 25°/55° 或 55°/25° 非对称 垂直: 根据阵列尺寸及弯曲的曲率而定
最大声压级	140 dB
额定功率	低频: 2 × 450 W 中频: 312 W 高频: 75 W
驱动单元	低频: 2 × 12" 中频: 4 × 5" 高频: 2 × 1.75"
标称阻抗	低频: 2 × 8 Ω, 中频: 8 Ω, 高频: 8 Ω
接口类型	2 × 8 针 Neutrik speakon (NL8)
箱体	
宽 × 高 × 深	876 × 356/276 × 689 mm (34.5 × 14/10.9 × 27.1 in)
重量(净重)	87 kg (191.8 lbs)
材料	15, 18 及 30 mm 桦木夹板

SPECIFICATIONS

Frequency Response	35 Hz - 20 kHz
Coverage angle (-6dB)	Horizontal: 50° or 110° symmetric 25°/55° or 55°/25° asymmetric Vertical: Defined by the array size and curvature
Maximum SPL	140 dB
Power Rating	LF: 2x450 W MF: 312 W HF: 75 W
Drivers	LF: 2x12" MF: 4x5" HF: 2x1.75"
Impedance	LF = 2x8 Ω, MF = 8 Ω, HF = 8 Ω
Connections	2x8-pin Neutrik Speakon(NL8)
Enclosure	
W x H/h x D	876 x 356/276 x 689 mm (34.5 x 14/10.9 x 27.1 inch)
Weight (net)	87 kg (191.8 lbs)
Material	15, 18 and 30 mm Baltic Birch Plywood

