

RSX218 规格



特性

- 按钮式心形指向性，减少多余的低频能量。
- 易于使用的EAWmosaic™ iOS app，可从应用场景的任意地点系预测、控制和监控系统
- 市场认可的EAW声学设计和DSP，包括Focusing™和DynO™技术，任何输出电平都能提供干净的脉冲响应。
- 所有型号都集成Dante™网络（带回路环通），包括模拟冗余功能。

应用

- 教堂
- 剧院，礼堂和表演艺术中心
- 现场音乐俱乐部
- 企业音视频室
- 现场演出/区域租赁场景
- 设备提供

描述

RADIUS系列产品拥有简约的设置，能在较短时间内提供极大的输出，融合了独特而智能的EAW标志性声学设计，为租赁公司和系统集成商提供优秀的解决方案。The powerful RSX218 dual 18" subwoofer is ideal for production applications, offering push-button cardioid operation for added sonic control. The RSX218 features onboard electronics (1400W maximum) and ultra-wide ports that drastically reduce low-frequency turbulence. EAWmosaic™ app provides total system optimization from anywhere in the venue, plus intuitive room design and prediction in a single, comprehensive application. With the proven sonic performance of EAW's acoustic design and DSP mastery plus full Dante integration across the line, RADIUS delivers an intelligent and flexible system to fit any budget.

双18"有源次低频扬声器

配置

子系统	换能器	负载
LF	2 x 18英寸锥盆, 3英寸音圈	倒相式

操作模式	功放通道	信号处理
单功放	LF	DSP w/ DynO™

性能

操作范围	27 Hz 至 125 Hz	
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标称波束宽	水平 360°	垂直 360°
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计算的轴向输出限幅 (全空间SPL)	平均	峰值
(全空间)	129 dB	135 dB
(半空间)	135 dB	141 dB

电气性能

输入	类型	电子平衡式
	最大输入电平	21dBu
	阻抗	20 kOhm (平衡式)
	接线	XLRF, 针 1 底盘, 针 2 +, 针 3 - 独立的环通XLRM (仅限于模拟信号)

输入选择	模拟, Dante
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功放 & 处理	LF	
	类型	改进D类
	最大输出	1400W
	驱动器保护	内置DSP限幅

交流电 (标称)	接头	Neutrik PowerCon®
	输入	100 V 至 240 V
	频率	50 Hz 至 60 Hz
	功率消耗	待机 22 W
		1/8 功率 230 W
		峰值消耗 750 W

控制/通信	接头	2x Neutrik® etherCON™, RJ-45
	协议	以太网/Dante
	软件	EAWmosaic™ (苹果商店App Store可下载)
	显示屏	功放板上的LCD屏幕提供用户界面 (UI), Logo LED指示灯 (用户可定义)
	用户控制	按键旋钮

重量	153 lbs/69.4 kg
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尺寸	20.6x44.0x31.1 in / 523x1118x791 mm
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订单数据	
描述	部件编号
EAW RSX218 黑色	2048608-90
可选配件	
EAW ACC CASTER PALLET RSX218 [PLTRSX218]	2048866-90
EAW COVER TRANSPORT RSX218	2048900
EAW ACC WEATHER PROTECTION SHIELD HORZ BLK [ACC-RSXH]	2047681

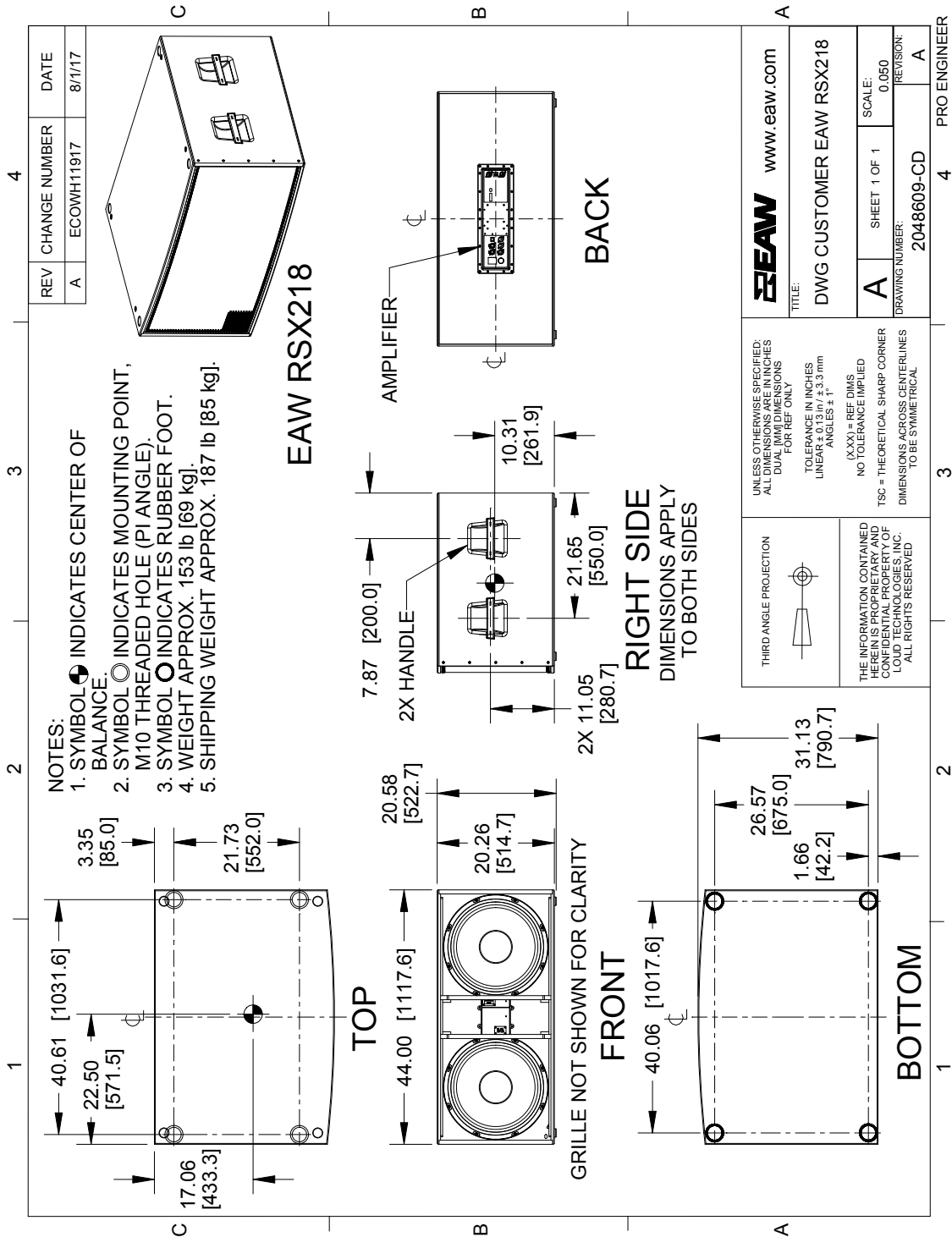


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Enclosure

- Material** Exterior-grade hardwood plywood
Finish Weather-resistant textured RoadCoat™
Grille Pre-treated, powder-coated perforated steel

NOTE: This drawing has been reduced. Do not scale.



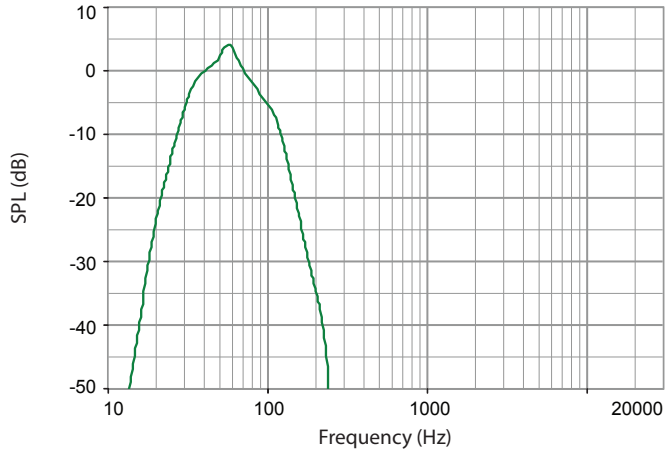
RSX218 规格

Performance Data

See *NOTES GRAPHIC DATA* for details

Frequency Response: Processed

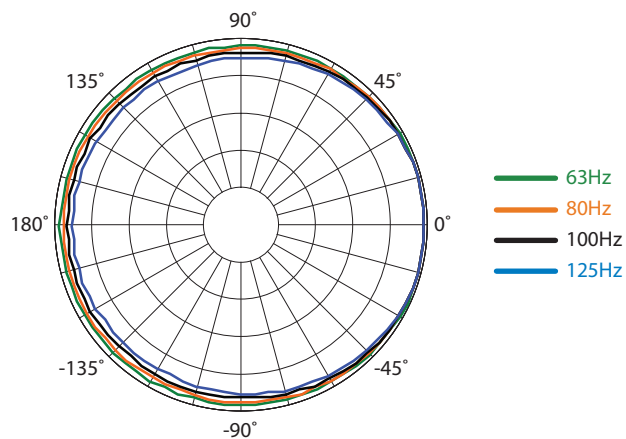
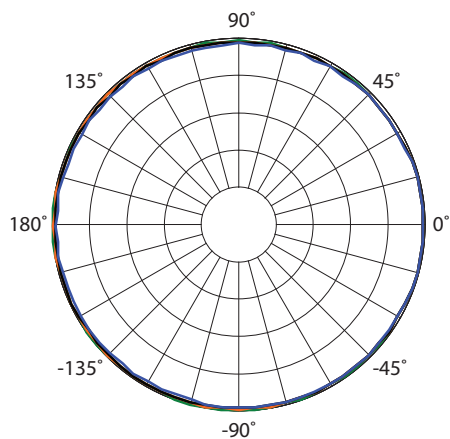
LF = green



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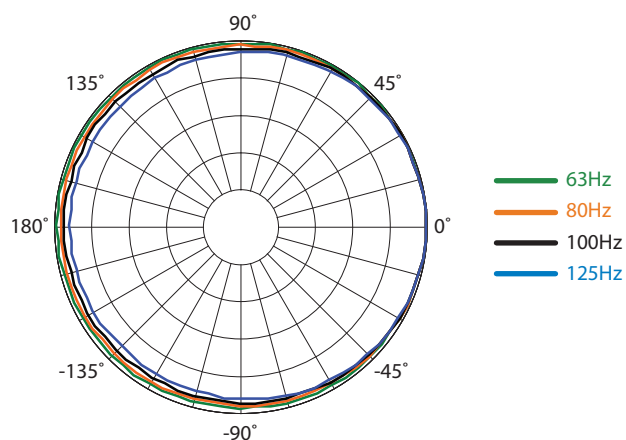
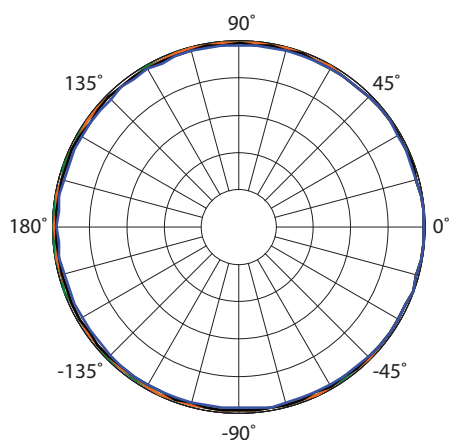
Single-module Horizontal Polar Data

See NOTES GRAPHIC DATA for details



Single-module Vertical Polar Data

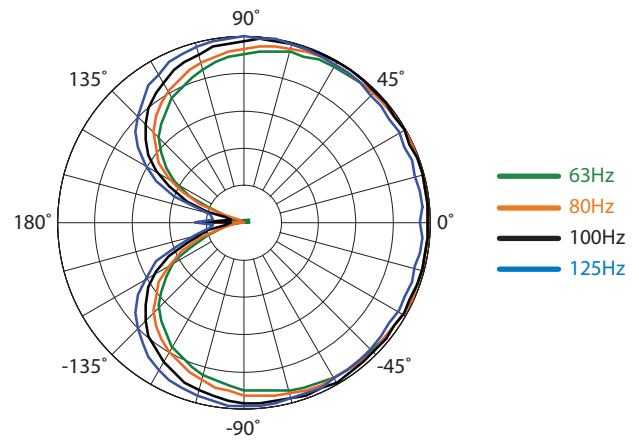
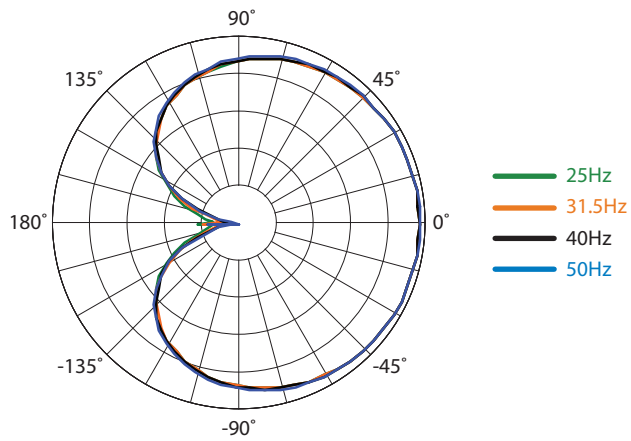
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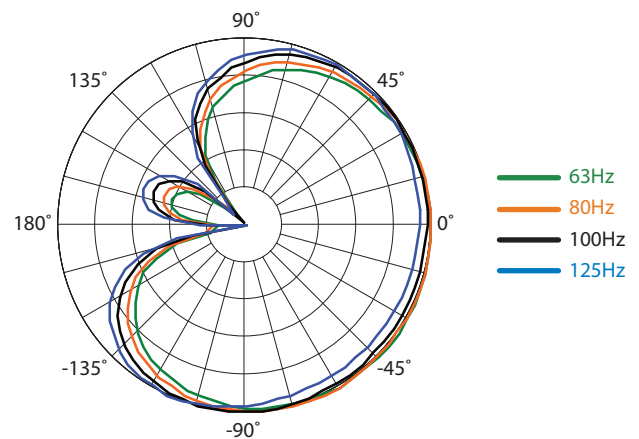
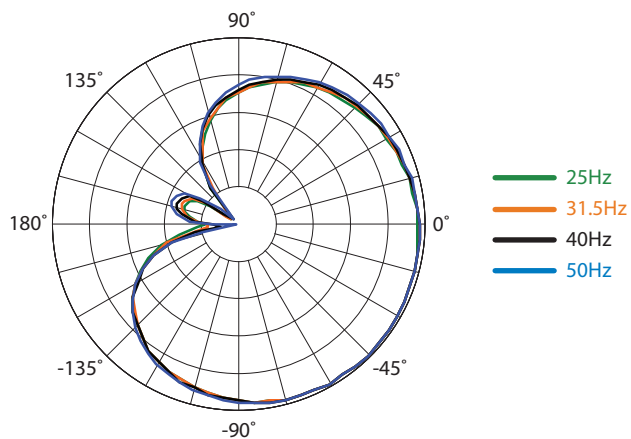
Two-module Cardioid Horizontal Polar Data

See NOTES GRAPHIC DATA for details



Two-module Cardioid Vertical Polar Data

See NOTES GRAPHIC DATA for details

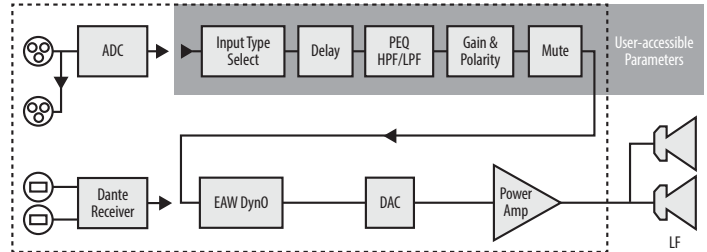


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Input Panel



Signal Diagram



Legend

- HPF** High Pass Filter for crossover –or– Recommended High Pass Filter
- LPF** Low Pass Filter for crossover
- LF/MF/HF** Low Frequency / Mid Frequency / High Frequency
- AMP** User Supplied Power Amplifier –or– Integral Amplifier for NT products
- XVR** Passive LPFs, HPFs, and EQ integral to the loudspeaker
- EAW Focusing** Digital Signal Processor capable of implementing EAW Focusing
- EAW DynO** Digital Signal Processor capable of implementing EAW DynO processing

Notes

TABULAR DATA

1. **Measurement/Data Processing Systems:** Primary – FChart; proprietary EAW software; Secondary – Brüel & Kjær 2012.
2. **Microphone Systems:** Earthworks M30; Brüel & Kjær 4133
3. **Measurements:** Dual channel FFT; length: 32 768 samples; sample rate: 48 kHz; logarithmic sine wave sweep.
4. **Measurement System Qualification** (includes all uncertainties): SPL: accuracy +/-0.2 dB @ 1 kHz, precision +/-0.5 dB 20 Hz to 20 kHz, resolution 0.05 dB; Frequency: accuracy +/-1 %, precision +/-0.1 Hz, resolution the larger of 1.5 Hz or 1/48 octave; Time: accuracy +/-10.4 μ s, precision +/-0.5 μ s, resolution 10.4 μ s; Angular: accuracy +/-1°, precision +/-0.5°, resolution 0.5°.
5. **Environment:** Measurements time-windowed and processed to eliminate room effects, approximating an anechoic environment. Data processed as anechoic or fractional space, as noted.
6. **Measurement Distance:** 7.46 m. Acoustic responses represent complex summation of the subsystems at 20 m. SPL is referenced to other distances using the Inverse Square Law.
7. **Enclosure Orientation:** For beamwidth and polar specifications, as shown in Mechanical Specification drawing.
8. **Volts:** Measured rms value of the test signal.
9. **Watts:** Per audio industry practice, "loudspeaker watts" are calculated as voltage squared divided by rated nominal impedance. Thus, these are not True Watt units of energy as defined by International Standard.
10. **SPL:** (Sound Pressure Level) Equivalent to the average level of a signal referenced to 0 dB SPL = 20 microPascals.
11. **Subsystem:** This lists the transducer(s) and their acoustic loading for each passband. Sub = Subwoofer, LF = Low Frequency, MF = Mid Frequency, HF = High Frequency.
12. **Operating Mode:** User selectable configurations. Between system elements, a comma (,) = separate amplifier channels; a slash (/) = single amplifier channel. DSP = Digital Signal Processor.
IMPORTANT: To achieve the specified performance, the listed external signal processing must be used with EAW-provided settings.
13. **Operating Range:** Range where the processed Frequency Response stays within -10 dB SPL of the power averaged SPL within this range; measured on the geometric axis. Narrow band dips are excepted.
14. **Nominal Beamwidth:** Design angle for the -6 dB SPL points, referenced to 0 dB SPL as the highest level.
15. **Axial Sensitivity:** Power averaged SPL over the Operating Range with an input voltage that would produce 1 W at the nominal impedance; measured with no external processing on the geometric axis, referenced to 1 m.
16. **Nominal Impedance:** Selected 4, 8, or 16 ohm resistance such that the minimum impedance point is no more than 20% below this resistance over the Operating Range.
17. **Accelerated Life Test:** Maximum test input voltage applied with an EIA-426B defined spectrum; measured with recommended signal processing and Recommended Protection Filter.
18. **Calculated Axial Output Limit:** Highest average and peak SPLs possible during the Accelerated Life Test. The Peak SPL represents the 2:1 (6 dB) crest factor of the Life Test signal.
19. **High Pass Filter:** This helps protect the loudspeaker from excessive input signal levels at frequencies below the Operating Range.

GRAPHIC DATA

1. **Resolution:** To remove insignificant fine details, 1/12 octave cepstral smoothing was applied to acoustic frequency responses and 1/3 octave cepstral smoothing was applied to the beamwidth and impedance data. Other graphs are plotted using raw data.
2. **Frequency Responses:** Variation in acoustic output level with frequency for a constant input signal. Processed: normalized to 0 dB SPL. Unprocessed inputs: 2 V (4 ohm nominal impedance), 2.83 V (8 ohm nominal impedance), or 4 V (16 ohm nominal impedance) referenced to a distance of 1 m.
3. **Processor Response:** The variation in output level with frequency for a constant input signal of 0.775 V = 0 dB reference.
4. **Beamwidth:** Average angle for each 1/3 octave frequency band where, starting from the rear of the loudspeaker, the output first reaches -6 dB SPL referenced to 0 dB SPL as the highest level. This method means the output may drop below -6 dB SPL within the beamwidth angle.
5. **Impedance:** Variation in impedance magnitude, in ohms, with frequency without regard to voltage/current phase. This means the impedance values may not be used to calculate True Watts (see 9 above).
6. **Polar Data:** Horizontal and vertical polar responses for each 1/3 octave frequency band 100 Hz to 16 kHz or Operating Range.