3-WAY SELF-POWERED LOUDSPEAKER 120° × 12°

Configuration

Subsystem

Transducer  Loading

LF 1 x 8 in cone, 2 in voice coil  Vented

LF/MF 1 x 8 in cone, 2 in voice coil  Vented

HF 2 x 1 in exit, 1.4 in voice coil  Horn-loaded

Operating Mode

Amplifier Channels  Signal Processing

Tri-amp LF, LF/MF, HF  DSP w/EAW Focusing™ and DynO™

Acoustical Performance

Operating Range

70 Hz to 18 kHz

Nominal Beamwidth

Horizontal 120°  Vertical 12°

Calculated Axial Output Limit (whole space SPL)

Average  Peak

LF/MF/HF 122 dB  128 dB

Electrical Performance

Input

Type Electronically balanced

Max Input Level 21dBu

Impedance 20 kOhm (balanced)

Wiring XLRF, Pin 1 chassis, pin 2 +, pin 3 -  Separate loop-thru XLRM (for analog signal only)

Input Selection

Analog, Dante

Amplifiers & Processing

Type Modified Class D

LF/MF/HF

Maximum Output 3x 500W

Driver Protection Integral DSP limiting

AC Mains (nominal)

Connector Neutrik PowerCon®

Input 100 V to 240 V

Frequency 50 Hz to 60 Hz

Power Consumption Idle 26 W  Peak Draw 250 W

Controls/Communication

Connections 2x Neutrik etherCON™, RJ-4S

Protocols Ethernet/Dante

Software EAWmosaic™ (available on the App Store)

Indicators LCD Screen on amplifier panel for UI, Logo LED (User-definable behavior)

User Controls Push-button Rotary Encoder

Weight

40.5 lbs/18.4 kg

Dimensions

9.8x27x13 in / 249x683x332 mm

Ordering Data

Description  Part Number

EAW RSX208L BLACK  2047570-90

Optional Accessories

EAW FBX100 FLYBAR BLACK  2047169-00

EAW ACC WEATHER SHIELD HORZ BLK  2047681

EAW SBX100 STAND MOUNT BLACK  2047369

EAW ACC ROADCASE RSX208L  2047368

Features

• OptiLogic™ provides array self-detection via onboard infrared sensors and accelerometers for near-instant optimization that cuts down on setup and tuning time.

• Extremely approachable EAWmosaic™ IOS app delivers system prediction, control and monitoring from any location in the venue.

• Proven EAW acoustical design and DSP including Focusing™ and DynO™ provides a pristine impulse response at all output levels.

• Integrated Dante™ networking (with loop-thru) on all models including Analog redundancy capability.

Applications

• House of Worship

• Theatres, Auditoria and Performing Arts Centers

• Live Music Clubs

• Corporate AV Houses

• Live Production/Regional Rental Houses

• Dry Hire

Description

Designed to streamline setup and deliver maximum results in minimum time, RADIUS couples unique and intelligent features with EAW’s signature acoustical design to deliver solutions for rental firms and system integrators. The RADIUS articulated array features OptiLogic, providing automatic array self-detection and instant optimization including air loss compensation and more. 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.
RSX208L Specifications

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.
Performance Data
See NOTES GRAPHIC DATA for details

Frequency Response: Processed
LF = green, MF = orange, HF = black, Complete = blue

Frequency Response: Voicings
Sapphire = green, White = orange, Grey = black, Blue = blue

Phase Linearity
Complete = blue

Beamwidth
Horizontal = orange
Vertical = black
Horizontal Polar Data
See NOTES GRAPHIC DATA for details

90˚  

135˚  

45˚  

0˚  

-90˚  

180˚  

-135˚  

630Hz  

800Hz  

1000Hz  

1250Hz  

100Hz  

125Hz  

160Hz  

200Hz  

1600Hz  

2000Hz  

2500Hz  

3150Hz  

4000Hz  

5000Hz  

6300Hz  

8000Hz  

10000Hz  

12500Hz  

16000Hz
Vertical Polar Data
See NOTES GRAPHIC DATA for details

- 100Hz
- 125Hz
- 160Hz
- 200Hz
- 250Hz
- 315Hz
- 400Hz
- 500Hz
- 630Hz
- 800Hz
- 1000Hz
- 1250Hz
- 1600Hz
- 2000Hz
- 2500Hz
- 3150Hz
- 4000Hz
- 5000Hz
- 6300Hz
- 8000Hz
- 10000Hz
- 12500Hz
- 16000Hz
**Input Panel**

- **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**

| Part Number: RD0961 Rev A01
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<td>Eastern Acoustic Works</td>
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<td><a href="http://www.eaw.com">www.eaw.com</a></td>
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**Specifications**

**RSX208L**

**Input Panel**

- **Graphs**
  - Other graphs are plotted using raw data.

**Signal Diagram**

- **Connections**
  - DAC OptiLogic
  - Input Type
  - Delay
  - PEQ
  - Gain & Polarity

**Legend**

- **Microphone System**: Earthworks MXL, Briel & Kjaer 4133
- **Measurements**: Dual channel FFT; length: 32,768 samples; sample rate: 48 kHz; logarithmic sine wave sweep
- **System Calibration**: Includes all uncertainties
- **Accuracy**
  - SPL: accuracy +/-0.2 dB @ 1 kHz, precision +/-0.5 dB 20 Hz to 20 kHz, resolution 0.05 dB; Frequency: accuracy +/-0.1 %, precision +/-0.1 Hz, resolution 1 kHz or 1/48 octave; Time: accuracy +/-10 μs, precision +/-0.5 μs, resolution 1 μs; Angular: accuracy +/-1°, precision +/-0.5°, resolution 0.5°
- **Specifications**
  - EAW products are continually improved. All specifications are therefore subject to change without notice.