2-WAY SELF-POWERED LOUDSPEAKER 60° x 45°

See NOTES TABULAR DATA for details

CONFIGURATION

<table>
<thead>
<tr>
<th>Subsystem</th>
<th>Transducer</th>
<th>Loading</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF</td>
<td>1x 12 in cone</td>
<td>Vented</td>
</tr>
<tr>
<td>HF</td>
<td>1x 1.4 in exit, 3 in voice coil compression driver</td>
<td>Horn-loaded</td>
</tr>
</tbody>
</table>

Operating Mode:

<table>
<thead>
<tr>
<th>Amplifier Channels</th>
<th>Signal Processing</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF, HF</td>
<td>DSP w/ EAW Focusing</td>
</tr>
</tbody>
</table>

ACOUSTICAL PERFORMANCE

Operating Range: 55 Hz to 20 kHz

Nominal Beamwidth:

* Horz: 60°
* Vert: 45°

Axial Output Limit (whole space SPL):

| Average Calculated | LF/HF 124 dB | Peak 130 dB |

ELECTRICAL PERFORMANCE

Input

- Type: Electronically balanced XLRF
- Sensitivity: 2.5 V / 10 dBu at Limit, 6.2 V / 18 dBu at Clip
- Impedance: 20 k ohm (balanced to chassis), 10 k ohm (unbalanced)
- Wiring:
  - Pin 1: chassis, Pin 2: signal +, Pin 3: signal -
  - Loop: Electronically balanced XLRM

DSP (50 Mflop 32 bit Sharc):

- Encoding: 24 Bit / 48 kHz
- Filters: Proprietary
- Latency: 2.97 ms

User Addressable DSP

<table>
<thead>
<tr>
<th>Array</th>
<th>Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>EQ 10 Parametric</td>
<td>10 Parametric</td>
</tr>
<tr>
<td>Delay</td>
<td>1200 ms</td>
</tr>
<tr>
<td>Level</td>
<td>15 dB +/-</td>
</tr>
<tr>
<td>Amplifier</td>
<td>LF</td>
</tr>
<tr>
<td>Type</td>
<td>Modified Class D</td>
</tr>
<tr>
<td>Maximum Output</td>
<td>63 V, 1000 W @ 4 ohm</td>
</tr>
<tr>
<td>THD + noise</td>
<td>&lt; 0.3%</td>
</tr>
<tr>
<td>Dynamic Range</td>
<td>&gt; 105 dB</td>
</tr>
<tr>
<td>Driver Protection</td>
<td>Integral DSP limiting</td>
</tr>
</tbody>
</table>

AC Mains (Nominal)

<table>
<thead>
<tr>
<th>Connector</th>
<th>Neutrik PowerCon*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input</td>
<td>100 V to 120 V</td>
</tr>
<tr>
<td>Frequency</td>
<td>50 Hz to 60 Hz</td>
</tr>
<tr>
<td>Current:</td>
<td>Idle 0.25 A, In Rush 0.9 A, Output Limit 1.6 A, Fuse Rating 10 A</td>
</tr>
<tr>
<td></td>
<td>220 V to 240 V</td>
</tr>
<tr>
<td></td>
<td>50 Hz to 60 Hz</td>
</tr>
<tr>
<td></td>
<td>0.15 A</td>
</tr>
<tr>
<td></td>
<td>0.6 A</td>
</tr>
<tr>
<td></td>
<td>1.0 A</td>
</tr>
<tr>
<td></td>
<td>6.3 A</td>
</tr>
</tbody>
</table>

Input Selection: Analog, AES Ch 1, AES Ch 2, U-Net (1 - 64)

Communication: USB, U-Net 1, U-Net 2

CONTROLS

Mode: Normal / Coupled / Monitor

INDICATORS (LED)

- Signal Present
- Limiter Active
- Rear Speaker DSP
- Clip
- Input Selection
- Amplifier Status
- U-Net Status

FEATURES

- Comprehensive integration
- EAW Focusing
- U-Net (audio and communications network)
- EAW Pilot Control and communications
- 1500 watts of class leading power

APPLICATIONS

Corporate A/V, any small to medium sized live sound reinforcement, performing arts venues, houses of worship, retail, ballrooms, theaters, theme parks.

DESCRIPTION

The JFNT Series of comprehensively integrated 2-way sound reinforcement systems elevate the notion of power and utility. Each JFNT features premium neodymium components, 1500W of amplification, revolutionary EAW Focusing processing, EAW Pilot software-accessible front-end DSP, the proprietary U-Net audio and communications network and the JF Series adaptable enclosure design. All models natively offer a combination of portable features and M10 installation points. Available universal accessories include trim plates that hide handles and provide a connection point for u-brackets and quick release flytrack segments that integrate into any enclosure and adjustable legs for use as a stage monitor.

ORDERING DATA

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAW JF26nt Black Active Speaker 115 V</td>
<td>2034565-00</td>
</tr>
<tr>
<td>EAW JF26nt Black Active Speaker 230 V</td>
<td>2034565-01</td>
</tr>
</tbody>
</table>

Optional Accessories

- M10 x 37mm Forged Shoulder Eyebolt | 0029818
- EAW U-Bracket Adjustable S1 BLK (LUBKT-S1) | 2035474
- EAW ACC Leg Adjustable S (2 Per) (ACC-LGS) | 2035438
- EAW ACC Flytrack S (2 Per) (ACC-FTS) | 2035439
- EAW ACC Cover Plate S (2 Per) BLK (ACC-CPS) | 2035473
- Fly Clip with Ring | 0001386

COMPLIANCE:

- CSA CAN/CSA 60065-03, UL Std No. 60065-03
- FCC Part 15

Eastern Acoustic Works • One Main Street • Whitinsville, MA 01588 • tel 800 992 5013 / 508 234 6158 • fax 508 234 8251 • www.eaw.com

EAW products are continually improved. All specifications are therefore subject to change without notice.

Part Number: RD0524 Rev A00

October 2010
NOTE: This drawing has been reduced. Do not scale.
PERFORMANCE DATA
See NOTES GRAPHIC DATA for details

**Frequency Response: Processed Multi-Amp**
Complete = blue

**Beamwidth (-6 dB SPL Points)**
Horizontal = orange Vertical = black

**Phase Linearity**
Complete = blue

**Directivity Index**
Complete = pink

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HORIZONTAL POLAR DATA
See NOTES GRAPHIC DATA for details
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
**Notes**

**Tabular Data**

2. Microphone Systems: Earthworks M30, Bruel & Kjaer 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; Frequency: accuracy +/-1 %, precision +/-0.1 Hz, resolution the larger of 1.5 Hz or 1/48 octave; Time: accuracy +/-10.4 μs, precision +/-0.5 μs, resolution 10.4 μs; 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.
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 ft.
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.

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**Specifications**

- **DSP:** EAW UX8800 Digital Signal Processor—or—Integral Digital Signal Processing for NT products.
- **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.

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