3-WAY FULL-RANGE LOUDSPEAKER
See NOTES TABULAR DATA for details

CONFIGURATION
Subsystem:

<table>
<thead>
<tr>
<th>Transducer</th>
<th>Loading</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF 2x 10 in cone</td>
<td>Vented</td>
</tr>
<tr>
<td>MF 1x 1.4 in cone, 3.5 in</td>
<td>Horn-loaded</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>HF 1x 1.4 in exit, 1.75 in voice</td>
<td>Horn-loaded</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Operating Mode:

Amplifier Channels: Bi-amp LF, MF, HF
External Signal Processing: DSP w/ EAW Focusing

PERFORMANCE
Operating Range: 64 Hz to 20 kHz
Nominal Beamwidth:
- Horz 60°
- Vert 45°

Axial Sensitivity (whole space SPL):
<table>
<thead>
<tr>
<th>Component</th>
<th>Sensitivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF/MF/HF</td>
<td>98 dB</td>
</tr>
<tr>
<td>LF</td>
<td>99 dB</td>
</tr>
<tr>
<td>MF/HF</td>
<td>111 dB</td>
</tr>
</tbody>
</table>

Input Impedance (ohms):
<table>
<thead>
<tr>
<th>Component</th>
<th>Nominal</th>
<th>Minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF/MF/HF</td>
<td>8</td>
<td>6.6 @ 124 Hz</td>
</tr>
<tr>
<td>LF</td>
<td>8</td>
<td>6.4 @ 392 Hz</td>
</tr>
<tr>
<td>MF/HF</td>
<td>8</td>
<td>6.7 @ 3650 Hz</td>
</tr>
</tbody>
</table>

High Pass Filter:
- High Pass=>64 Hz, 12 dB/octave Butterworth

Accelerated Life Test:
<table>
<thead>
<tr>
<th>Component</th>
<th>Voltage</th>
<th>Power @ 8 ohm</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF/MF/HF</td>
<td>94 V</td>
<td>1100 W @ 8 ohm</td>
</tr>
<tr>
<td>LF</td>
<td>78 V</td>
<td>750 W @ 8 ohm</td>
</tr>
<tr>
<td>MF/HF</td>
<td>35 V</td>
<td>150 W @ 8 ohm</td>
</tr>
</tbody>
</table>

Calculated Axial Output Limit (whole space SPL):
<table>
<thead>
<tr>
<th>Component</th>
<th>Average</th>
<th>Peak</th>
</tr>
</thead>
<tbody>
<tr>
<td>LF/MF/HF</td>
<td>128 dB</td>
<td>134 dB</td>
</tr>
<tr>
<td>LF</td>
<td>128 dB</td>
<td>134 dB</td>
</tr>
<tr>
<td>MF/HF</td>
<td>133 dB</td>
<td>139 dB</td>
</tr>
</tbody>
</table>

ORDERING DATA
Description: EAW KF364 3-way Full-Range Loudspeaker Black
Part Number: 2034958-00

Optional Accessories:
- M10 × 37mm Forged Shoulder Eyebolt 0029818
- EAW U-Bracket Adjustable S1 BLK [UBKT-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

FEATURES
- Premium Performance
- Application Flexibility
- Neodymium Components
- NT upgrade capability
- Switch configurable powering modes (passive/bi-amp)

APPLICATIONS
Corporate A/V, any small to medium sized live sound reinforcement, performing arts venues, houses of worship, retail, ballrooms, theaters, theme parks – these products are far more visually appealing to the installation crowd due to their cabinet design and bracket kits.

DESCRIPTION
The newest additions to the legendary KF Series of premium 3-way loudspeakers pack even more capability and application flexibility into an ultra-compact package. The integration of premium neodymium components, a co-axial mid/high frequency component and world-renowned crossover design into an adaptable enclosure offers unprecedented utility. They natively offer both portable features and M10 installation points. Available universal accessories include trim plates that hide handles, u-brackets, quick release flytrack segments that integrate into any enclosure and adjustable legs for use as a stage monitor. Add revolutionary EAW Focusing in the UX8800 Processor for the pinnacle of performance in any venue.
NOTE: This drawing has been reduced. Do not scale.

**Notes:**
1. SYMBOL indicates center of balance.
2. SYMBOL indicates mounting point.
3. SYMBOL indicates mounting hole.
4. SYMBOL indicates 29.0 series.
5. SYMBOL indicates weight approx. 34 kg [75.0 lb].
6. SYMBOL indicates shipping weight approx. 34 kg [75.0 lb].

**Dimensions:**
- Front grille not shown for clarity.
- Right side dimensions apply to both sides.

**Designs:**
- Handle
- Access panel
- Pull back point
- Back
- Input
- Top
- Bottom

**Specifications:**
- KF364 • KF394
- 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: RD0534 A00

November 2010
PERFORMANCE DATA
See NOTES GRAPHIC DATA for details

**Frequency Response: Processed Multi-Amp**
LF = green, HF = black, Complete = blue

**Frequency Response: Unprocessed**
LF = green, HF = black, Complete = blue

**Impedance**
LF = green, HF = black, Complete = blue

**Phase Linearity**
Complete = blue

**Beamwidth**
Horizontal = orange Vertical = black
VERTICAL POLAR DATA
See NOTES GRAPHIC DATA for details
**Notes**

**Tabular Data**

2. Microphone Systems: Earthworks MI30; 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 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 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.