



FEATURES

- High-Q brings longer throw capability to KF730 arrays
- Nominal horizontal beamwidth of 75 degrees
- Fits seamlessly within KF730 Series arrays
- Integral light fly hardware of 6061-T6 structural aluminum

DESCRIPTION

The high-Q KF737 enhances the ability of the KF730 Series to deliver concert-level output and performance in an exceptionally wide range of applications. It may be used at the top of a KF730 array to project focused energy over long distances. It may also be used on its own in shoe-box style halls where you want to keep sidewall reflections to a minimum. The KF737, along with low-Q KF730 full range loudspeaker and SB730 subwoofer, is an excellent solution for applications such as houses of worship, corporate A/V, theatres, hotel ballrooms, and concert halls. The system is also ideal for supplemental coverage for larger line arrays, such as the KF760 Series. Such uses include audience side fill, stage lip fill, delayed arrays for balconies, and stage/performer coverage.

One large MF/HF horn fills the entire face of the enclosure, better maintaining horizontal pattern control throughout the MF/HF passband. The curved aperture MF loading slots effectively move the MF acoustic original further into the horn than physical space permits. The side-mounted LF drivers provide a forward-firing, figure-8-type pattern. The drivers are spaced so that the LF beamwidth matches the MF through crossover.

A bi-amplified power configuration (passive mid/high) reduces system cost and complexity. Processing for the arrays is intentionally simple and can be greatly enhanced with the EAW UX8800 dual-mode digital processor, which supplies Guinness Focusing alignment and driver processing algorithms.

The KF737, like the rest of the KF730 Series, offers very friendly truck-pack dimensions. Its rigging system is fully compatible with the KF730 full-range module as well as the SB730 subwoofer. The versatile rigging design fosters fast construction of arrays ranging from 4 to 18 enclosures. Each KF737 includes six QRP2 Quick Release Pins.

3-WAY FULL-RANGE BI-AMP (passive MF/HF filter)

Performance is for a single KF737.

CONFIGURATION

Subsystem		
	Transducer	Loading
LF	2x 10 in cone	Phase Aligned™
MF	2x 7 in cone	Horn-loaded
HF	2x 1 in exit, 1.75 in voice coil neodymium compression driver	Horn-loaded w/Radial Phase Plug™

Operating Mode

	Amplifier Channels	External Signal Processing
Bi-amp	LF, MF/HF	DSP w/2-way filters

PERFORMANCE ¹

Operating Range	80 Hz to 20 kHz	
Nominal Beamwidth (rotatable)		
Horz	75°	
Vert	12°	

Axial Sensitivity (whole space SPL)

MF/HF	105 dB	230 Hz to 20 kHz
LF	91 dB	80 Hz to 230 Hz

Peak Sensitivity (whole space SPL)

MF/HF	112 dB	20 Hz to 20 kHz
LF	92 dB	20 Hz to 20 kHz

Input Impedance (ohms)

	Nominal	Minimum
MF/HF	16	15.9 @ 680 Hz
LF	16	16 @ 250 Hz

Recommended High Pass Filter

High Pass	=>80 Hz, 24 dB/octave
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Accelerated Life Test ²

MF/HF	75 V	350 W @ 16 ohm
LF	106 V	700 W @ 16 ohm

Calculated Axial Output Limit (whole space SPL)

	Average	Peak
MF/HF	130 dB	136 dB
LF	119 dB	125 dB

ORDERING DATA

Description	Part Number
KF737 Line Array Loudspeaker - Black	0016014-90

Optional Accessories

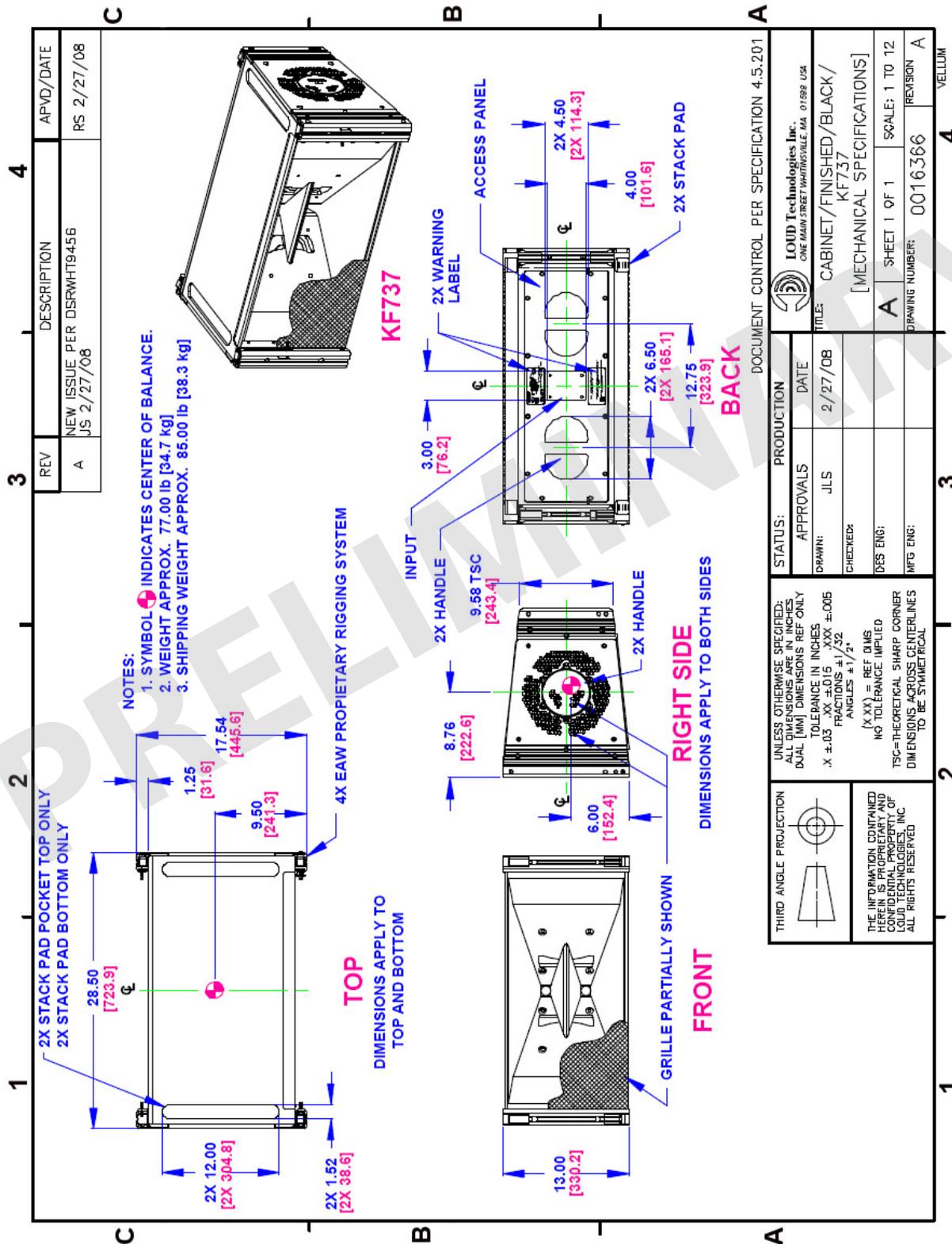
FB737 Fly Bar	0006265
PB173 Pull Bar	0008090
QRP2 Quick Release Pins (Spare)	0020558-01
PLT73K Caster Pallet	0006385

¹ To achieve specified performance, the listed external signal processing with EAW-provided settings is required.

² For recommendations to select power amplifier size refer to: "HOW MUCH AMPLIFIER POWER DO I NEED?" on the EAW web site.

ENCLOSURE

- Material Baltic birch plywood
- Finish Wear resistant textured black paint
- Grille Powder-coated perforated steel



<p>STATUS: PRODUCTION</p> <p>APPROVALS: JLS</p> <p>DRAWN: JLS</p> <p>CHECKED:</p> <p>DES ENG:</p> <p>MFG ENG:</p>		<p>DATE: 2/27/08</p>	<p>LOUID Technologies Inc. ONE MAIN STREET WHITINSVILLE, MA 01588 USA</p> <p>TITLE: CABINET/FINISHED/BLACK/ KF737 [MECHANICAL SPECIFICATIONS]</p>
<p>UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES DUAL [MM] DIMENSIONS REF ONLY TOLERANCE IN INCHES .X ±.03 .XX ±.015 .XXX ±.005 FRACTIONS ± 1/32 ANGLES ± 1/2° (X.XX) = REF DIMS NO TOLERANCE IMPLIED TSC=THEORETICAL SHARP CORNER DIMENSIONS ACROSS CENTERLINES TO BE SYMMETRICAL</p>		<p>DOCUMENT CONTROL PER SPECIFICATION 4.5.201</p>	
<p>THIRD ANGLE PROJECTION</p>		<p>A SHEET 1 OF 1 SCALE: 1 TO 12</p>	
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NOTE: This drawing has been reduced. Do not scale.