SPECIFICATIONS KF650z

FEATURES

- Compact Virtual Array™ three-way system
- Vented, LF horn-loaded MF/HF (60° x 45° coverage pattern)
- 15-in LF,10-in MF, 3-in voice coil/1.4-in exit HF
- Switchable powering: Tri-amp or Bi-amp (passive LF/MF)
- For portable use or permanent installation

DESCRIPTION

A 3-way full range system in a vented trapezoidal enclosure. Includes a 15-in woofer, vented, a horn-loaded 10-in midrange cone and a 1.4-in exit compression driver on a 60° x 45° constant directivity horn. Powering mode is switchable: bi-amplified (passive LF/MF crossover) or tri-amplified.

APPLICATION

The KF650z Virtual Array™ system's true 3-way design dramatically improves the quality of vocal reproduction while its cone-driven midrange horn extends pattern control into the lower octaves. Universal suspension hardware (flytrack with integral 3/8"-16 mounting point) supports permanent or portable applications. Six year warranty.

Applications include:

Concert Tours	
Band PA	Ballroom Events
Corporate Events	Convention Centers
Large Houses of Worship	Live Music Club

PERFORMANCE

Frequency Response (Hz)	
±3 db	65 Hz to 17 kHz
-10 dB	50 Hz
Axial Sensitivity (dB SPL, 1 Watt @1m)	
Bi-amped LF/MF	100
LF	100
MF	109
HF	110
Impedance (Ohms)	
Bi-amped LF/MF	8
LF	8
MF	8
HF	8
Power Handling, (Watts Continuous)	
Bi-amped LF/MF	700
LF	700
MF	400
HF	160

Recommended High-Pass Frequency	
24 dB/Octave	50 Hz
Calculated Maximum Output (dB SPL @ 1m)	
Bi-amped LF/MF Peak	134.5
LF Peak	134.5
MF Peak	141.0
HF Peak	138.0
B-iamped LF/MF Long Term	128.5
LF Long Term	128.5
MF Long Term	135.0
HF Long Term	132.0
Nominal Coverage Angle, -6 dB Points (degrees)	
Horizontal	60
Vertical	45

PHYSICAL

LF Subsystem	1x 15-in, vented
MF Subsystem	1x 10-in horn-loaded cone
HF Subsystem	1x 1.4-in exit compression driver on constant directivity horn
Configuration	3-way, full range
Powering	Switchable: bi-amplified (passive LF/MF crossover) or tri-amplified
Controls (switches, knobs)	Powering mode switch
Cabinet Type (shape)	Trapezoidal
Enclosure Materials	Baltic birch plywood
Finish	Wear-resistant textured black paint

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KF650z/2 pp October 2001 Printed in USA

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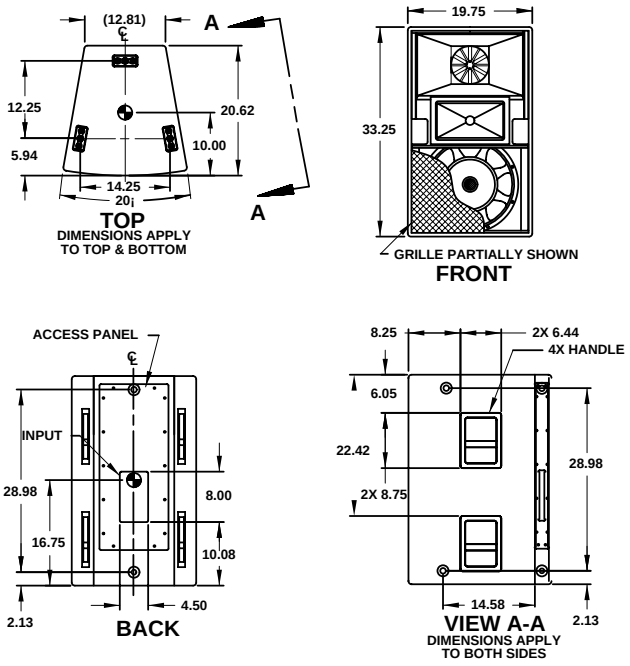
DIMENSIONAL DRAWING

1. SYMBOL ⊟ INDICATES 3.00 X 1.35 FLYTRACK.
2. SYMBOL ⊙ INDICATES MOUNTING POINT, 3/8-16 THREADED HOLE (FLYTRACK).
3. SYMBOL ◔ INDICATES CENTER OF BALANCE.



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Manufacturing tolerances are +/- 0.13 and +/- 1°

PHYSICAL continued

Connectors	2x Neutrik NL4 Speakon 2x Neutrik NL8 Speakon	
Suspension Hardware	(6) 3-position flytracks with integral 3/8"-16 threaded mounting points (3 each top and bottom)	
Grille	Powder coated perforated steel, foam backed	
Dimensions	**Inches**	**Millimeters**
Height	33.3	845
Width (front)	19.8	502
Width (rear)	12.9	328
Depth	20.6	524
Trapezoid Angle	10 Degrees per Side	
Weights	**Pounds**	**Kilograms**
Net Weight	135.0	61.4
Shipping Weight	142.0	64.6

A & E SPECIFICATIONS

The three-way full range loudspeaker system shall incorporate a 15-in LF transducer, a 10-in cone MF transducer and a 1.4-in exit compression driver HF transducer.

The LF driver shall be mounted in a vented enclosure tuned optimum low frequency response. The MF driver shall be loaded into a midrange horn constructed of 1/8-in birch plywood reinforced with high density polyurethane foam. The MF horn shall incorporate a phase/displacement plug. The HF driver shall be loaded on a constant directivity horn with a nominal coverage pattern of 60° (h) x 45° (v). An internal passive filter network shall provide system equalization and fourth order acoustical crossover between the low and mid frequency sections in bi-amped mode .

System frequency response shall vary no more than ±3 dB from 65 Hz to 17 kHz measured on axis. In bi-amped mode, the low/mid section shall produce a Sound Pressure Level (SPL) of 100 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 134.5 SPL on axis at 1 meter. It shall handle 700 Watts of amplifier power (continuous) and shall have a nominal impedance of 8 Ohms. The HF section shall produce a Sound Pressure Level (SPL) of 110 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 138 SPL on axis at 1 meter. It shall handle 160 Watts of amplifier power (continuous) and shall have a nominal impedance of 8 Ohms.

In tri-amped mode, the low frequency and high frequency sections shall meet all bi-amped mode performance criteria. In addition, the midrange frequency section in tri-amped mode shall produce a Sound Pressure Level (SPL) of 109 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 141 SPL on axis at 1 meter. It shall handle 400 Watts of amplifier power (continuous) and shall have a nominal impedance of 8 Ohms.

The loudspeaker enclosure shall be trapezoidal in shape. It shall be constructed of multi-ply, void-free cross-grain-laminated Baltic birch plywood and shall employ extensive internal bracing. It shall be finished in wear-resistant textured black paint. Input connectors shall be 2x Neutrik NL4 Speakon and 2x Neutrik NL8 Speakon. The system shall include a switch allowing it to be operated in bi-amp or tri-amp powering mode. A total of six 3-position flytracks with integral 3/8"-16 threaded mounting point (3 each top and bottom) shall be provided. The front of the loudspeaker shall be covered with a powder coated perforated steel grille backed with open cell foam to protect against dust.

The three-way full range loudspeaker shall be the EAW model KF650z.

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