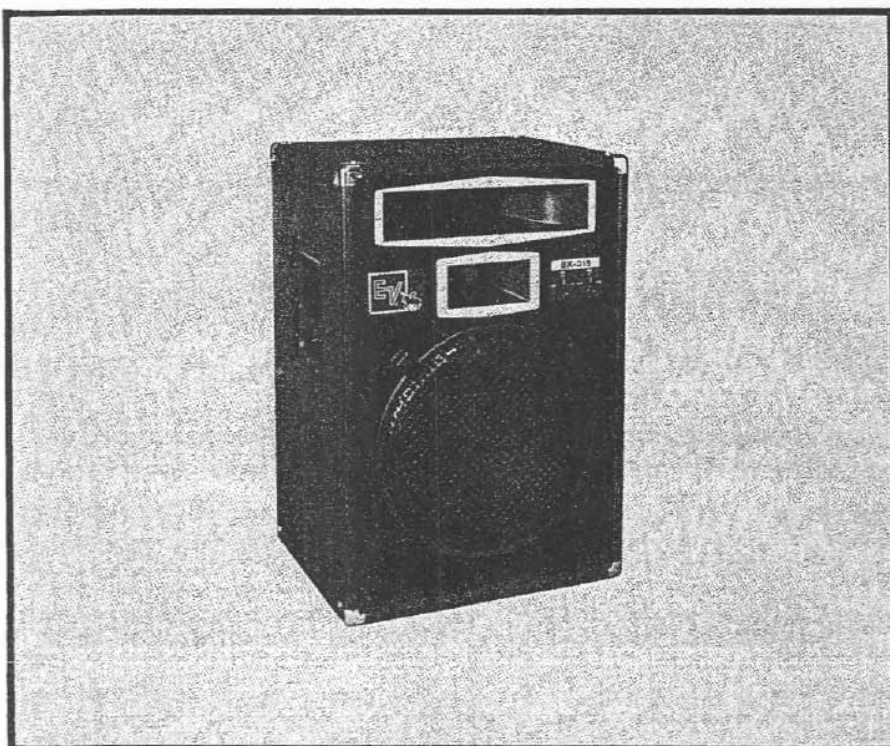




Electro-Voice®
a gulton company

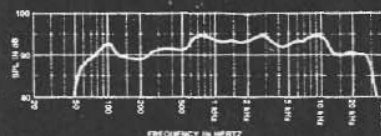


FIGURE 1 — Axial Frequency Response,
4 Volts/10 Feet

Model BK-315 Keyboard Speaker System

SPECIFICATIONS

Frequency Response, 10 Feet on Axis,
Swept 1/3-Octave, Half-Space Anechoic
Environment (see Figure 1):

60-20,000 Hz

Low-Frequency 3-dB-Down Point:

60 Hz

Usable Low-Frequency Limit

(10-dB-down point):

46 Hz

Half-Space Reference Efficiency:

3.2%

Long-Term Average Power Handling

Capacity per EIA Standard RS-426A

(see Power Handling Capacity section):

200 watts

Maximum Woofer Acoustic Output:

6.4 watts

Sound Pressure Level at 1 Meter,

1 Watt Input, Anechoic Environment,

Band-Limited Pink Noise Signal,

300 to 2,000 Hz:

100 dB

Dispersion Angle Included by 6-dB-Down

Points on Polar Responses, Indicated

One-Third-Octave Bands of Pink Noise,

400-16,000 Hz Horizontal

(see Figure 3):

90° (+55°, -25°)

5,000-16,000 Hz Vertical

(see Figure 3):

45° (+35°, -13°)

Directivity Factor R_0 (Q), 800-16,000 Hz

Median (see Figure 4):

12.8 dB (+11.2 dB, -6.7 dB)

Directivity Index D_i , 800-16,000 Hz

Median (see Figure 4):

10.5 dB (+3.3 dB, -2.6 dB)

Distortion, 0.1 Full Power Input

Second Harmonic,

100 Hz: <1%

1,000 Hz: 1.4%

10,000 Hz: 7%

Third Harmonic,

100 Hz: <1%

1,000 Hz: <1%

10,000 Hz: 2%

Distortion, 0.01 Full Power Input

Second Harmonic,

100 Hz: <1%

1,000 Hz: <1%

10,000 Hz: 2%

Third Harmonic,

100 Hz: <1%

1,000 Hz: <1%

10,000 Hz: <1%

Transducer Complement,

High-Frequency:

One-inch titanium diaphragm driver

60° x 40° CD horn

Mid-Frequency:

Selected compression driver and horn

Low-Frequency:

Special design 15" woofer

Box Tuning Frequency:

60 Hz

Crossover Frequencies:

900 Hz & 5,000 Hz

Crossover Slope:

12 dB per octave, low & mid

18 dB per octave, high

Impedance,

Nominal:

8 ohms

Minimum:

5 ohms

Input Connections:

Parallel 1/4-in. phone jacks

(allows paralleling of multiple speakers)

Enclosure Materials and Colors:

3/4-in. void-free plywood

with black textured finish

Dimensions:

74.4 cm (29.3 in.) high

40.1 cm (15.8 in.) deep

49.3 cm (19.4 in.) wide

Net Weight:

28 kg (62 lb)

Shipping Weight:

31 kg (68 lb)

Optional Accessory:

EV 484 stand mount kit

DESCRIPTION

Designed to accurately reproduce the complex wave forms generated by today's electronic instruments, the BK-315 3-way keyboard speaker system offers full-range reproduction in an ultra-portable package. Exceptionally broad bandwidth allows accurate reproduction of extended low-frequency and high-end harmonics. And power capacity to 200 watts handles high-level signals with no overload or distortion.

The high-frequency section of the BK-315 utilizes a die-cast 60° x 40° constant-directivity horn, driven by a wide-bandwidth, one-inch throat, titanium diaphragm driver. This driver uses a unique, convex-drive Time Path™ phasing plug structure (patent pending) for smooth and extended high-frequency performance to 30 kHz.

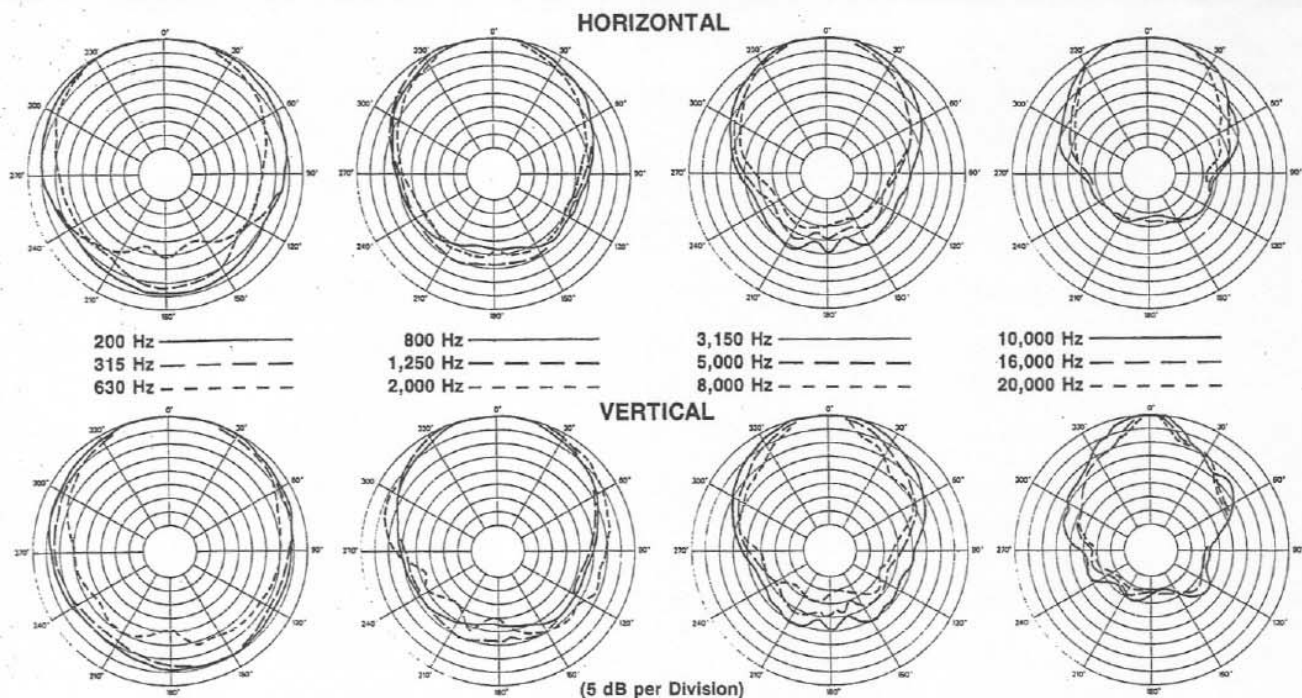


FIGURE 2 — Polar Response
($\frac{1}{3}$ -Octave Pink Noise, 4 Volts/20 Feet)

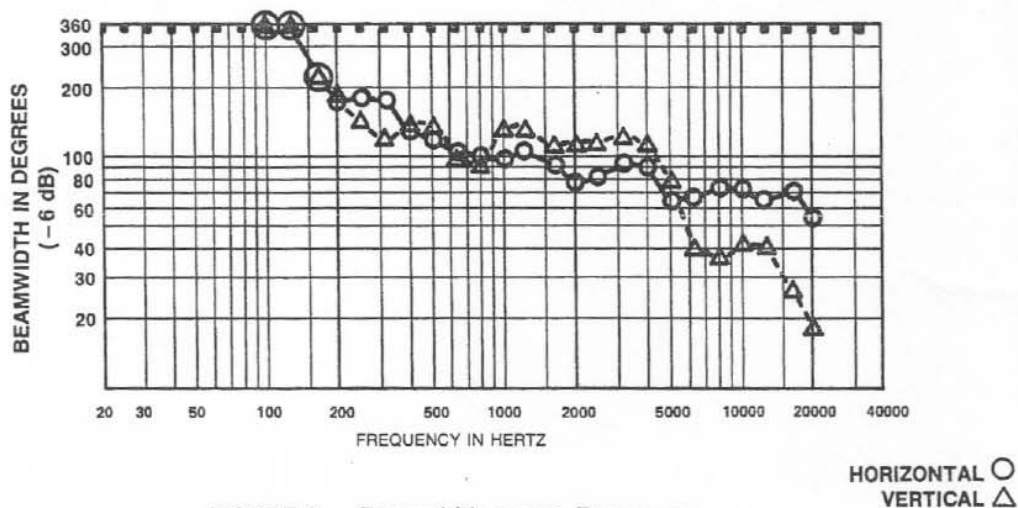


FIGURE 3 — Beamwidth versus Frequency
Whole Space (Anechoic)

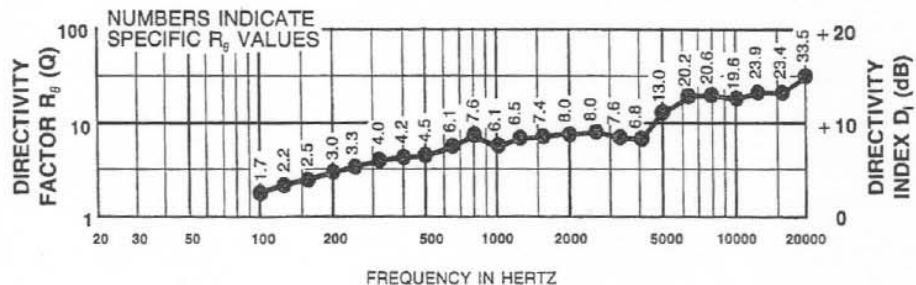


FIGURE 4 — Directivity versus Frequency
Whole Space (Anechoic)

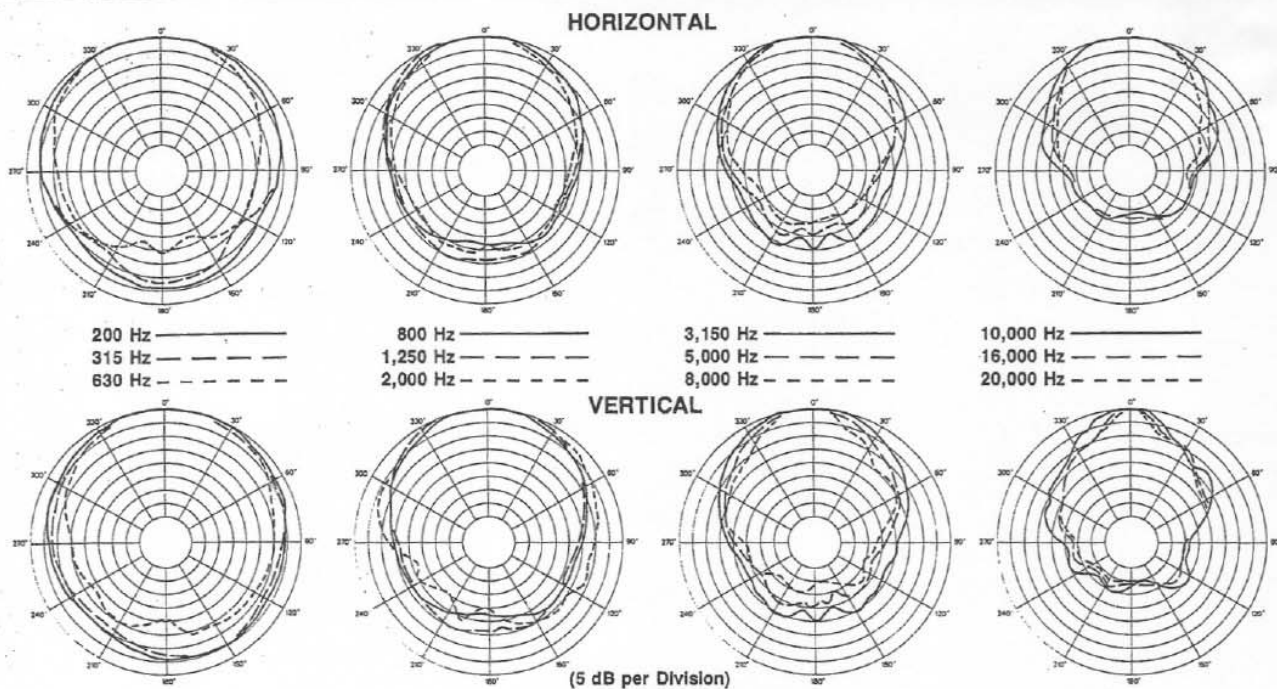
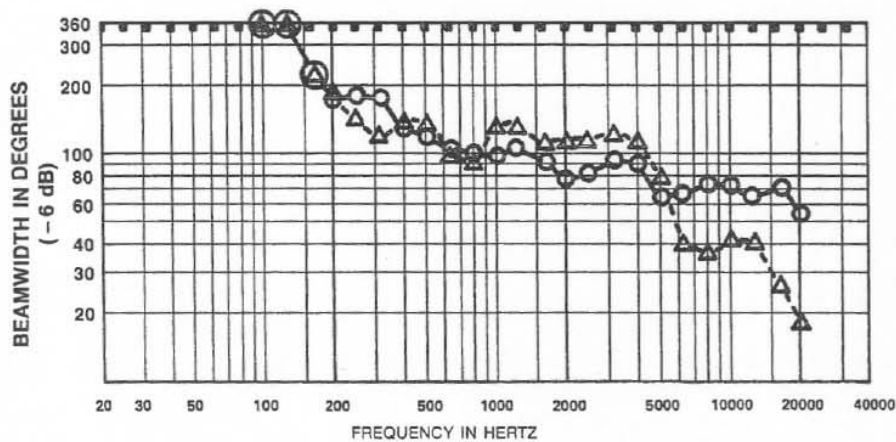


FIGURE 2 — Polar Response
($\frac{1}{3}$ -Octave Pink Noise, 4 Volts/20 Feet)



HORIZONTAL ○
VERTICAL △

FIGURE 3 — Beamwidth versus Frequency
Whole Space (Anechoic)

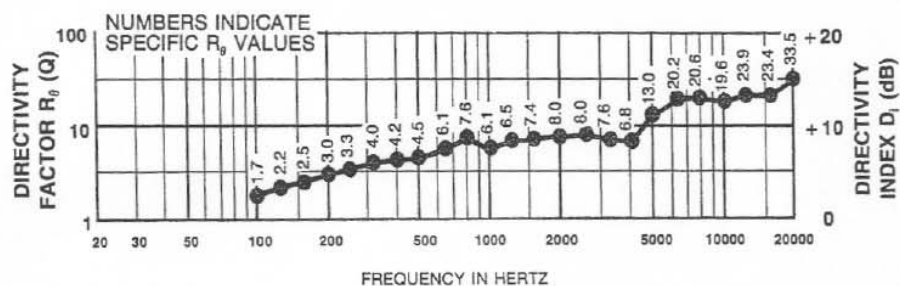


FIGURE 4 — Directivity versus Frequency
Whole Space (Anechoic)