TECHNICAL SPECIFICATIONS UB12S

DESCRIPTION

A 2-way full range system (passive LF/HF crossover) in an ultracompact vented rectangular enclosure. Includes a 5.25-in woofer and a 3/4-in soft dome tweeter. Magnetically shielded for use in immediate proximity to video monitors.

APPLICATIONS

The UB12S provides surprisingly high output and reliability from a mini-monitor. Magnetically shielded for use in immediate proximity to video monitors. 1/4"-20 threaded mounting/suspension points allow permanent installation. Six year warranty.

Applications include:

Ballroom Events
MultiMedia
Boardrooms
Restaurants
Small Retail Spaces

One half of pair shown.

DESCRIPTIVE DATA

Part Number	999314 (matched pair)
Product Group	J
LF Subsystem & Loading	1x 5.25-in Cone Vented
HF Subsystem & Loading	1x 3/4-in Soft Dome
System Configuration	2-way, Full Range
Powering Configuration(s)	Passive LF/HF Crossover
Recommended High-Pass Frequency (24 dB/Octave)	60Hz
Cabinet Type (shape)	Rectangular
Enclosure Materials	MDF
Finish	Black Catalyzed Polyurethane
Connectors	2-Terminal Barrier Strip
Suspension Hardware	(4) 1/4"-20 threaded mounting/ suspension points (1 each top and bottom, 2 on one side to accept Omnimount Series 25)
Grill	Vinyl Coated Perforated Steel
Mounting Bracket	980004

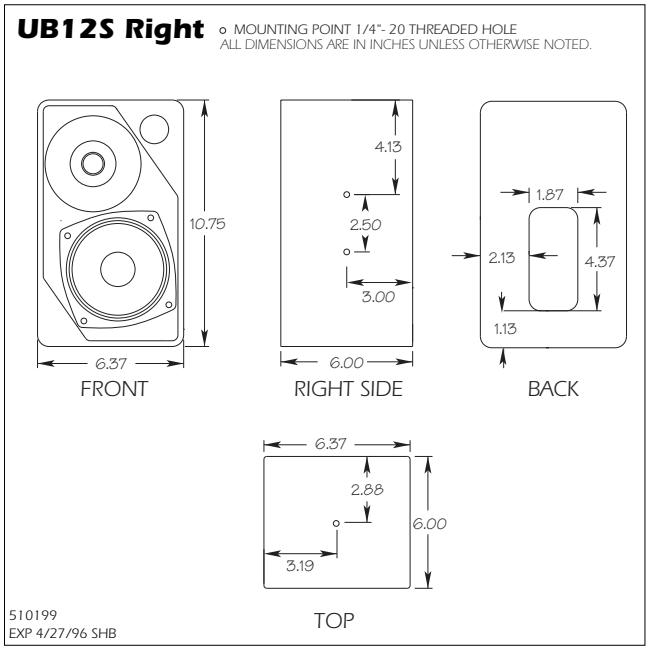
NOMINAL DATA

Frequency Response (Hz)		
±3 db	98Hz to 20kHz	
-10 dB	60Hz	
Axial Sensitivity (dB SPL/1 Watt/1m)		
	89	
Impedance (Ohms)		
	8	
Power Handling (Watts)		
AES Standard	140	
Calculated Maximum Output (dB SPL, @ 1m)		
Peak	116.5	
Long Term	110.5	
Nominal Coverage Angle / -6 dB points (degrees)		
Conical	120	
Dimensions	**inches**	**millimeters**
Height	10.75	273
Width	6.375	162
Depth	6	152
Weights	**pounds**	**kilograms**
Net Weight (each)	10	4.6
Shipping Weight (per pair)	23	10.5

EAW
EASTERN ACOUSTIC WORKS

One Main Street, Whitinsville, MA 01588 • (508) 234 - 6158 • FAX (508) 234 - 8251 • Email info@eaw.com • Web http://www.eaw.com
 • PUB# UB12S MATCHED PAIR 999314(A)/14p/4/7/97 • Printed In USA

DIMENSIONAL DRAWING



SERVICE ITEMS

LF: Complete Cone Driver	
EAW Part No.	804056
HF: Complete Compression Driver/Tweeter	
EAW Part No.	805005
Filter/Crossover Network: Complete Assembly	
EAW Part No.	201458, 201459

ARCHITECTURAL SPECIFICATIONS

The two-way full range loudspeaker systems shall incorporate a 5.25-in LF transducer a 3/4-in HF transducer.

The LF driver shall be mounted in a vented enclosure tuned for optimum low frequency response. The system shall have a nominal coverage pattern of 120° (conical). An internal passive filter network shall provide fourth order acoustical crossover and system equalization. The drivers shall be magnetically shielded allowing the systems to be used in immediate proximity to video monitors.

System frequency response shall vary no more than ±3 dB from 98 Hz to 20 kHz measured on axis. The loudspeaker shall produce a Sound Pressure Level (SPL) of 89 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 116.5 SPL on axis at 1 meter. The loudspeaker shall handle 140 Watts of amplifier power (AES Standard) and shall have a nominal impedance of 8 Ohms.

The loudspeaker enclosure shall be rectangular in shape and shall be available in left/right mirror-imaged pairs. It shall be constructed of 3/4-in medium density fiberboard (MDF) and shall employ extensive internal bracing. It shall be finished in black catalyzed polyurethane. Input connectors shall be 2-terminal barrier strip. A total of four 1/4"-20 threaded mounting/suspension points (1 each top and bottom, 2 on one side to accept Omnimount Series 25) shall be provided. The front of the loudspeaker shall be covered with a vinyl coated perforated steel grill.

The two-way full range loudspeaker shall be the EAW model UB12S.

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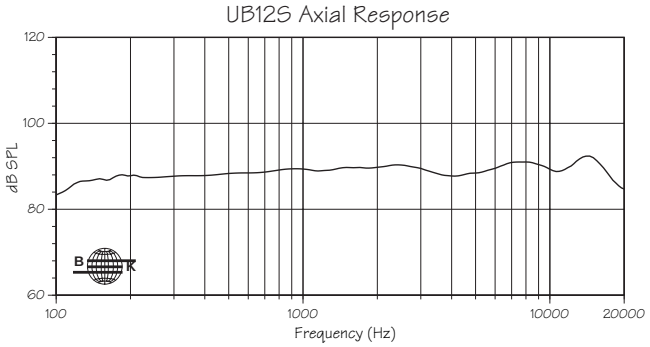
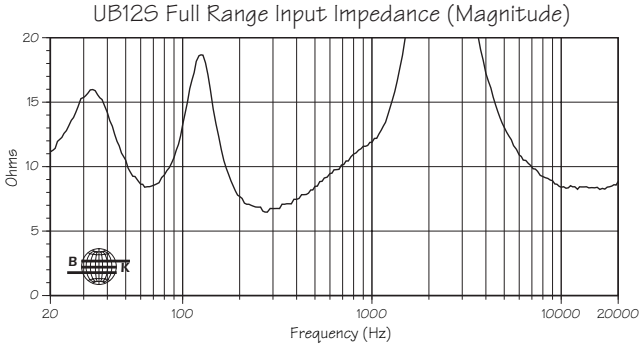
TECHNICAL SPECIFICATIONS UB12S

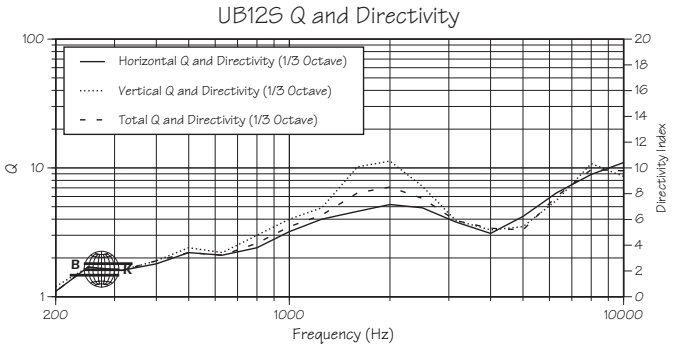
FREQUENCY RESPONSE



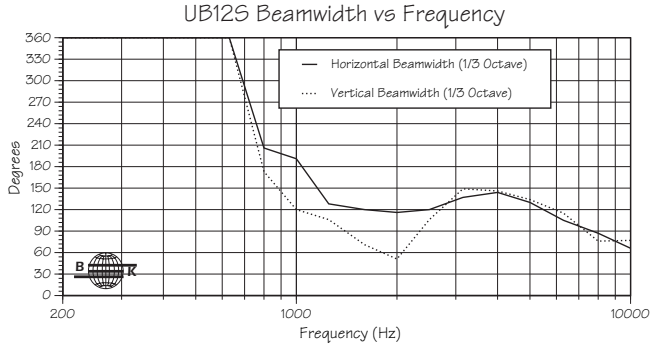
INPUT IMPEDANCE



Q & DIRECTIVITY INDEX (DI)



BEAMWIDTH



Q & BEAMWIDTH BY FREQUENCY

Freq	Hor Q	Ver Q	Tot Q	Hor Beamwidth	Ver Beamwidth
100	1.2	1.2	1.1	360	360
125	1.1	1	1	360	360
160	1.6	1.5	1.5	360	360
200	1.1	1.2	1.1	360	360
250	1.7	1.7	1.7	360	360
315	1.6	1.6	1.6	360	360
400	1.8	1.9	1.9	360	360
500	2.2	2.4	2.2	360	360
630	2.1	2.2	2.1	360	360
800	2.4	3	2.6	206	173
1000	3.2	4	3.5	191	120
1250	4	4.9	4.3	128	106
1600	4.6	10.2	6.4	120	71
2000	5.2	11.3	7.1	116	51
2500	4.9	7.2	5.8	120	106
3150	3.8	3.9	3.9	137	149
4000	3.1	3.3	3.4	144	146
5000	4.2	3.5	3.3	130	134
6300	6.4	5.6	6	105	115
8000	8.9	10.8	9.7	87	76
10000	11	8.6	9.5	66	77
12500	9.7	8.1	8.8	80	94
16000	18.7	18	18.3	56	55
20000	24.8	18.5	21.4	40	40

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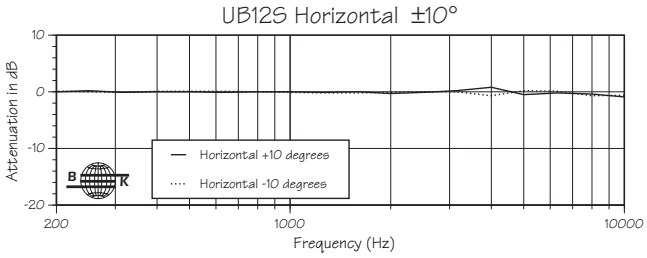
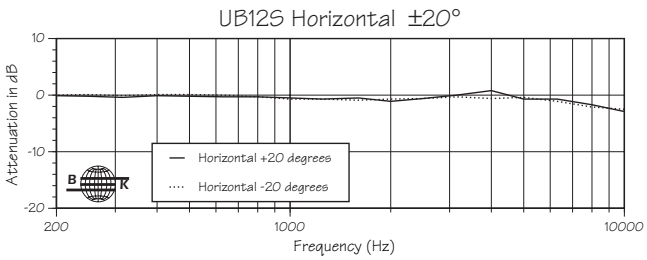
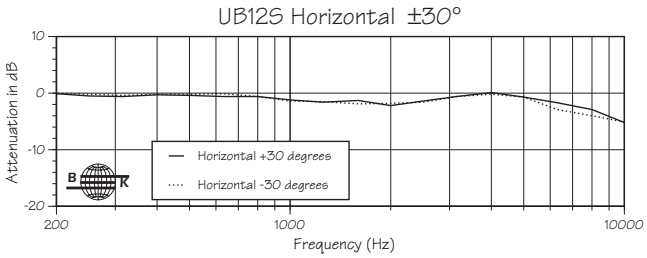
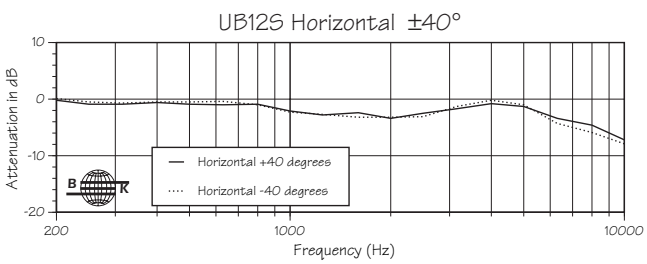
HORIZONTAL OFF-AXIS RESPONSE

On-axis response normalized to 0 dB.



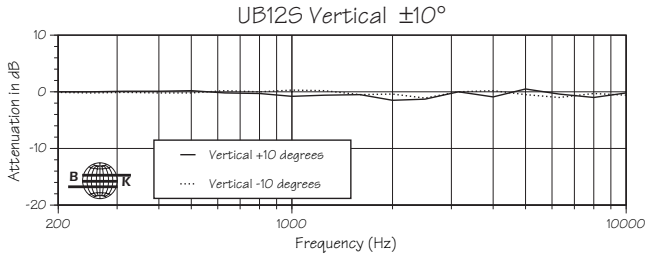


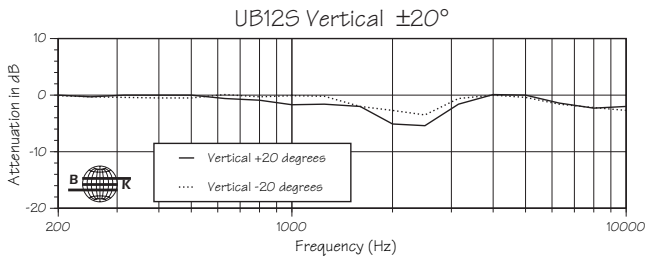


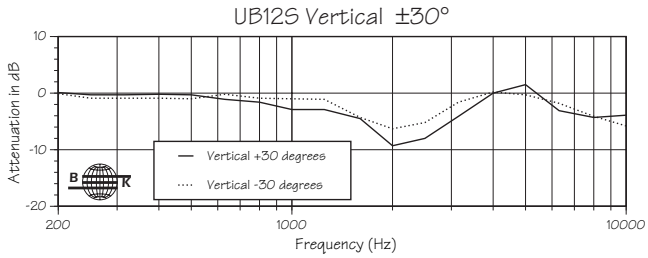


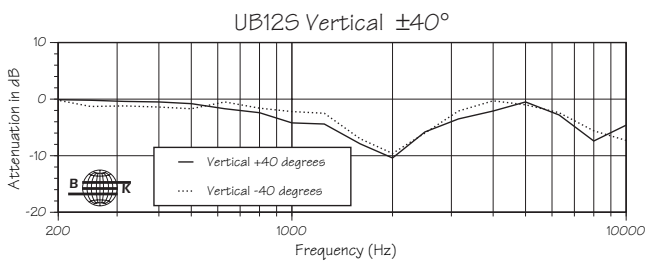
VERTICAL OFF-AXIS RESPONSE

On-axis response normalized to 0 dB.

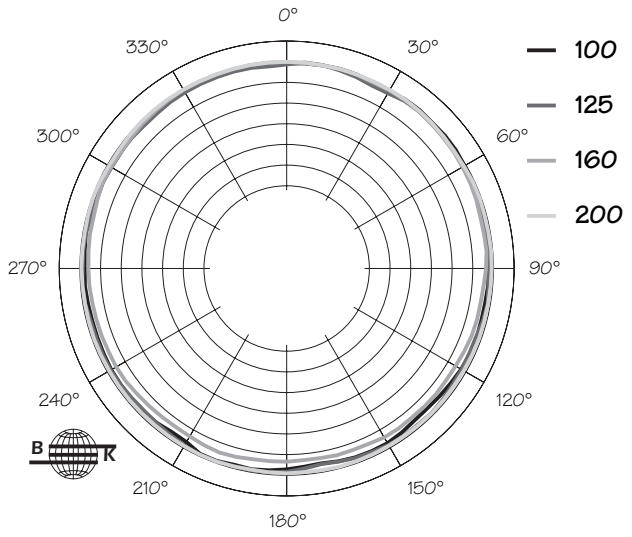


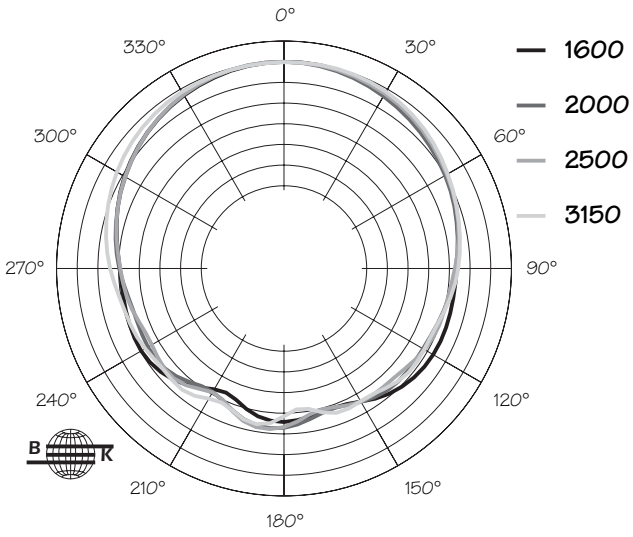


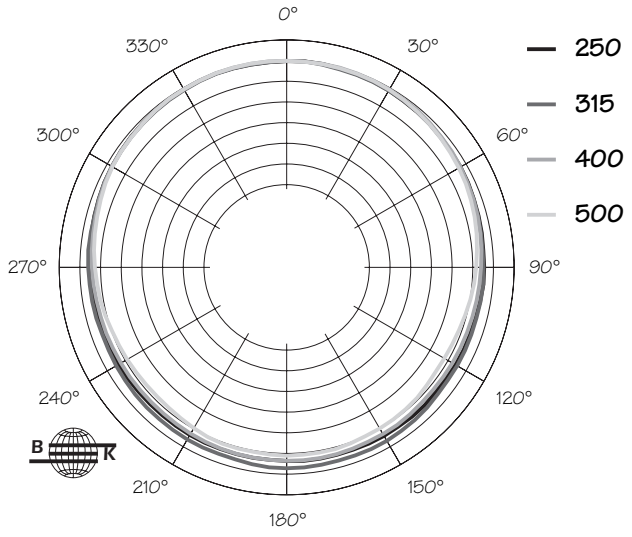


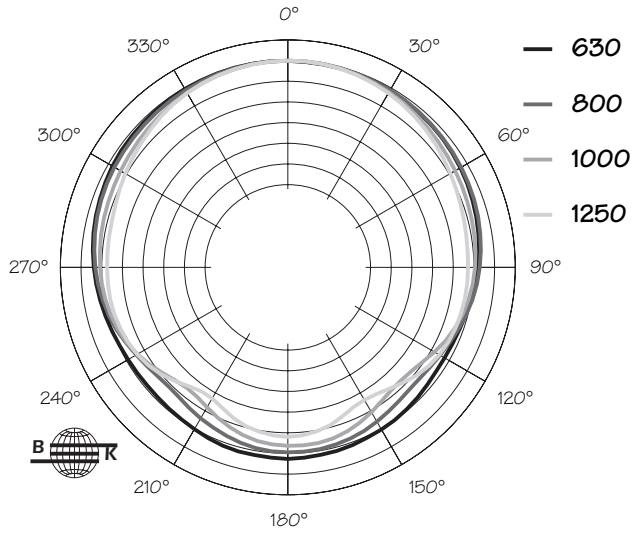


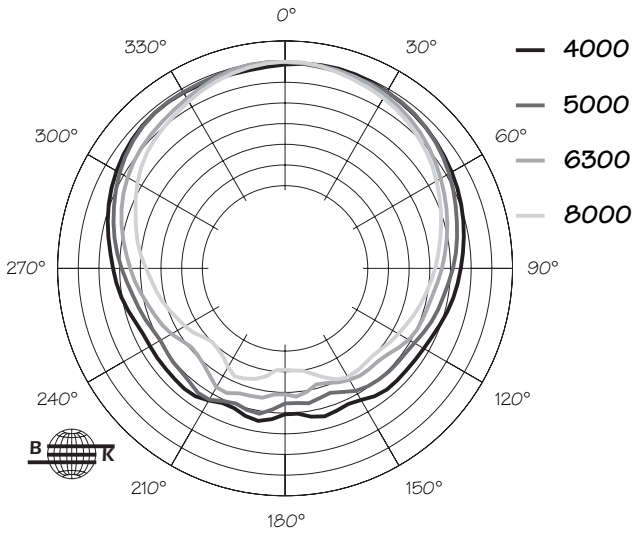
HORIZONTAL 1/3 OCTAVE POLAR DATA UB12

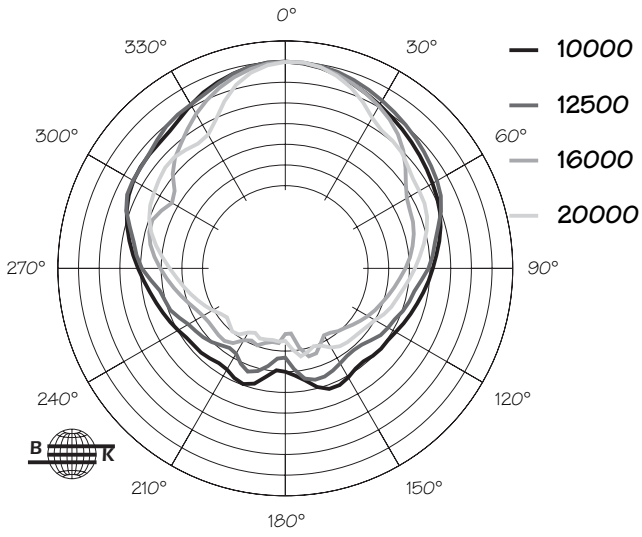




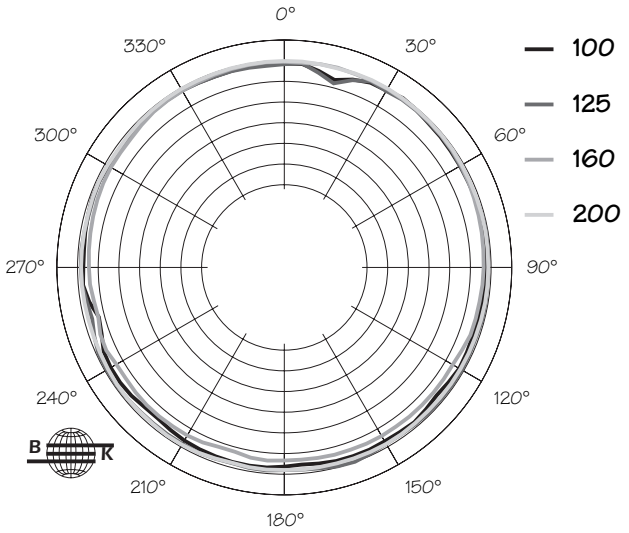


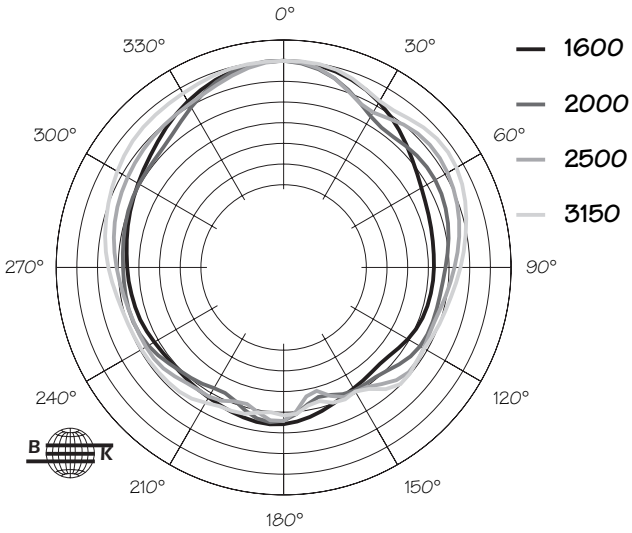


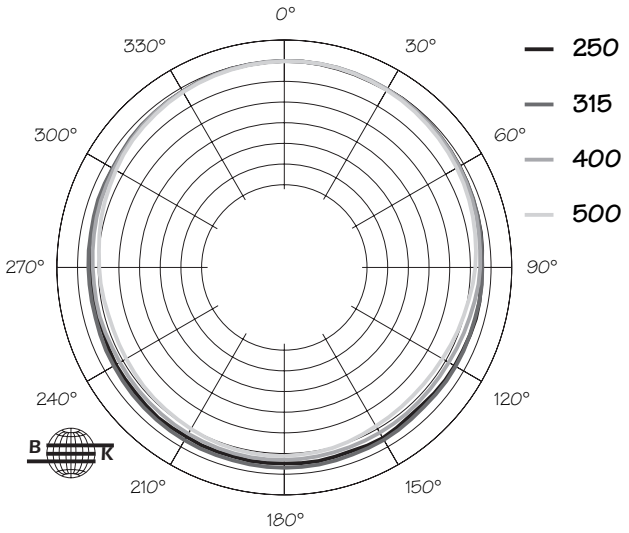


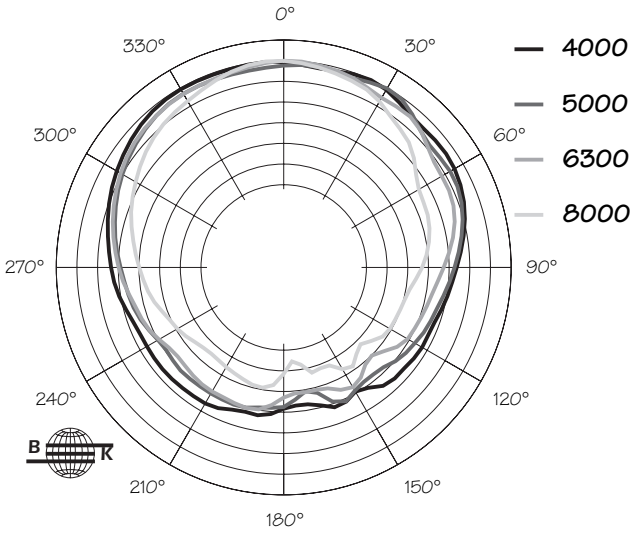


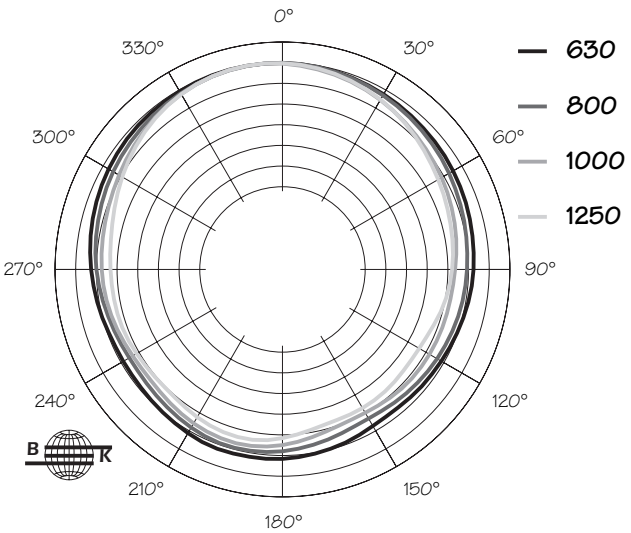
VERTICAL 1/3 OCTAVE POLAR DATA UB12

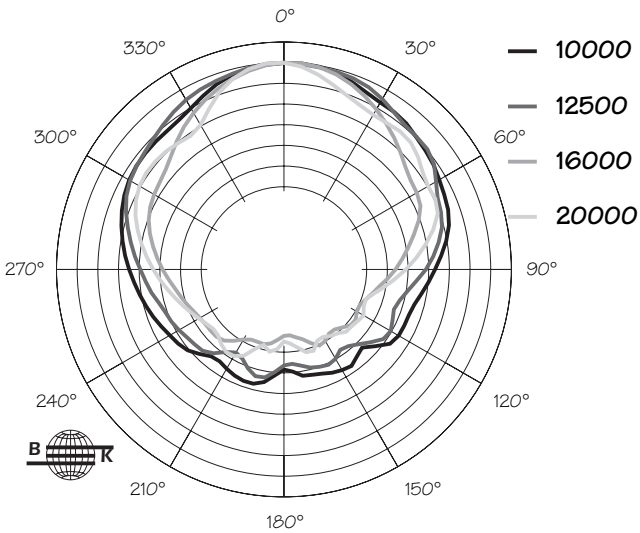












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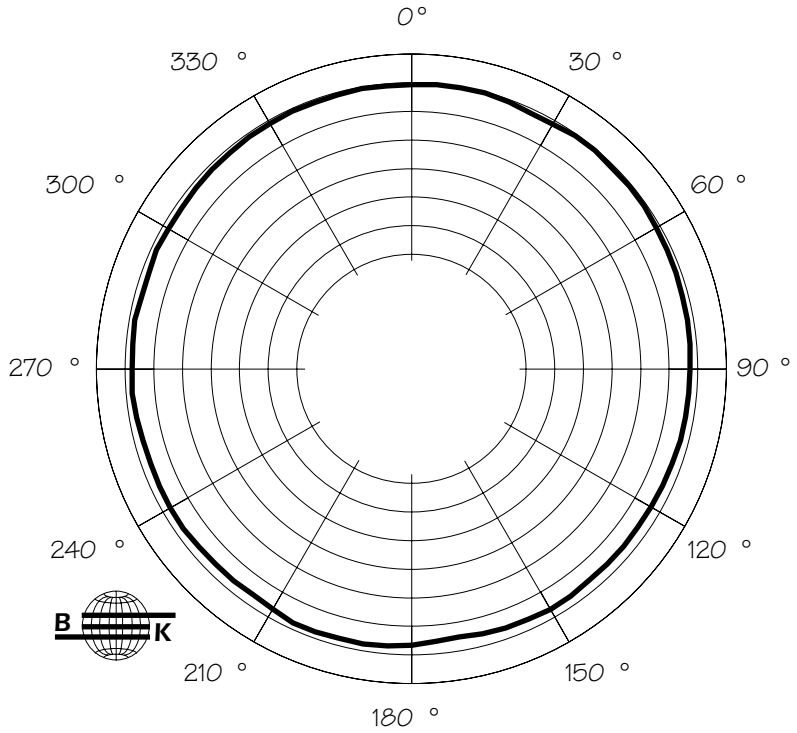
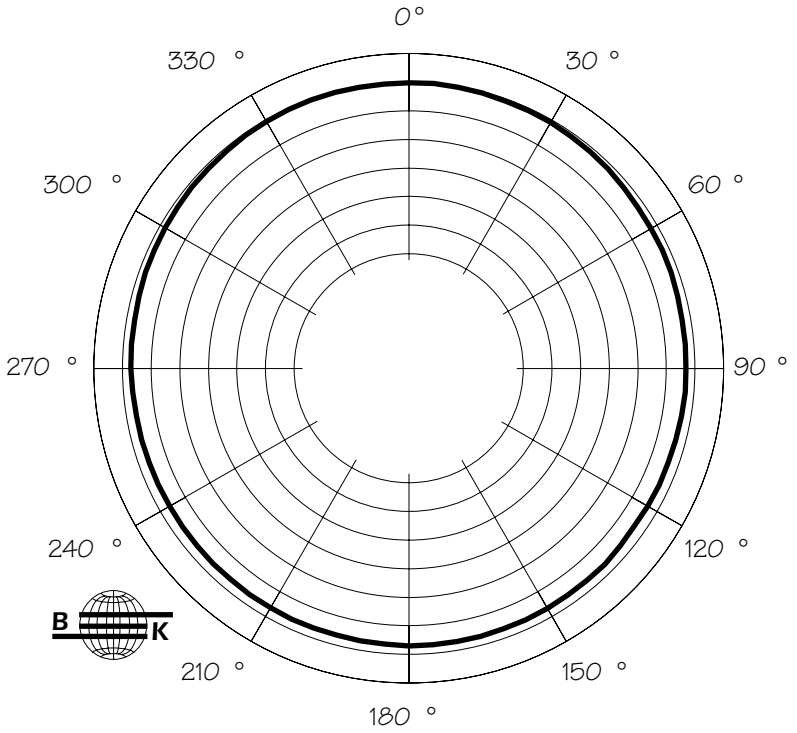
HORIZONTAL OCTAVE POLAR DATA

3125 Hz Horizontal Octave Polar Data

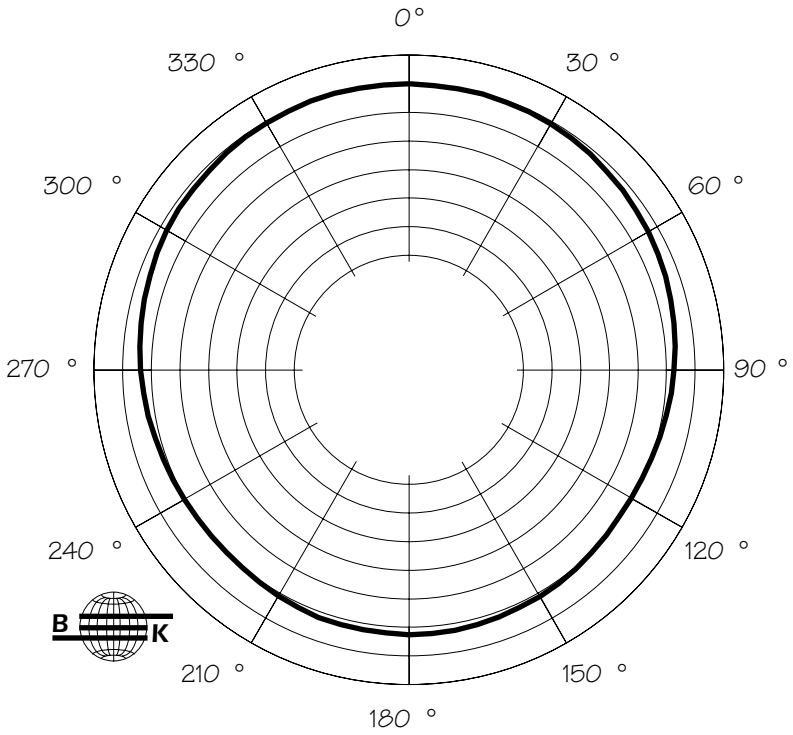


1250 Hz Horizontal Octave Polar Data

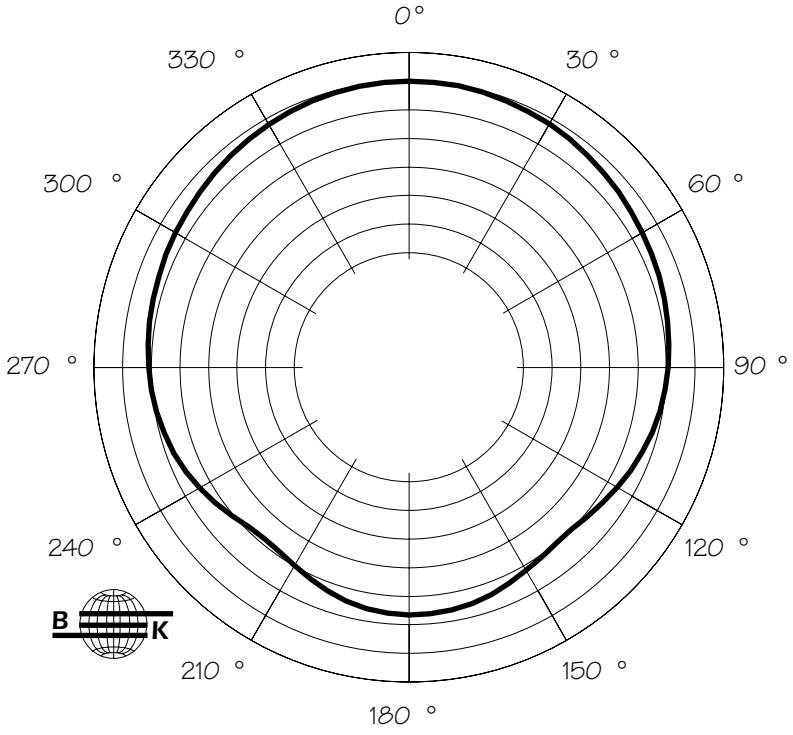


HORIZONTAL OCTAVE POLAR DATA

12S 500 Hz Horizontal Octave Polar Data

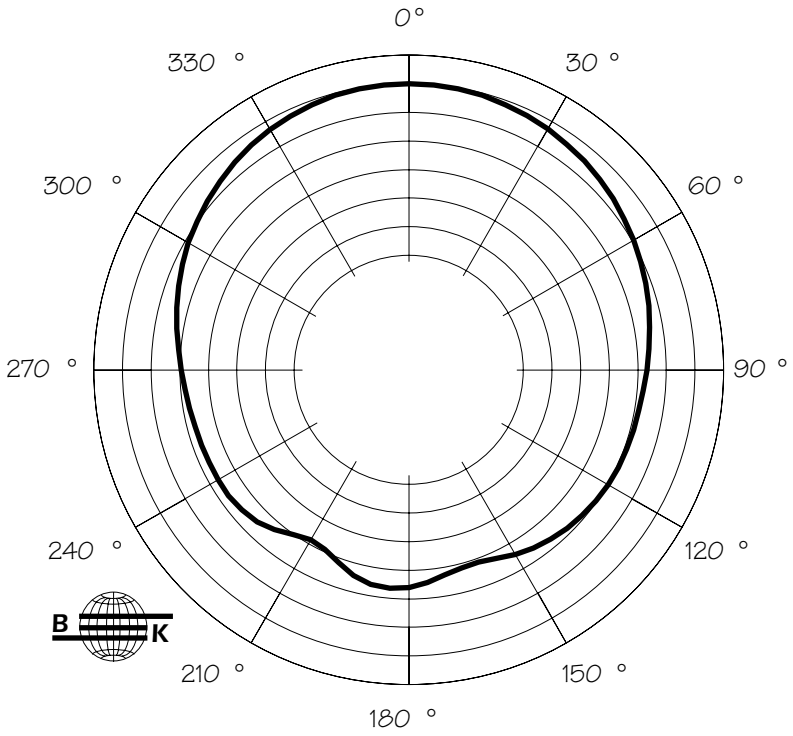


UB12S 1000 Hz Horizontal Octave Polar Data

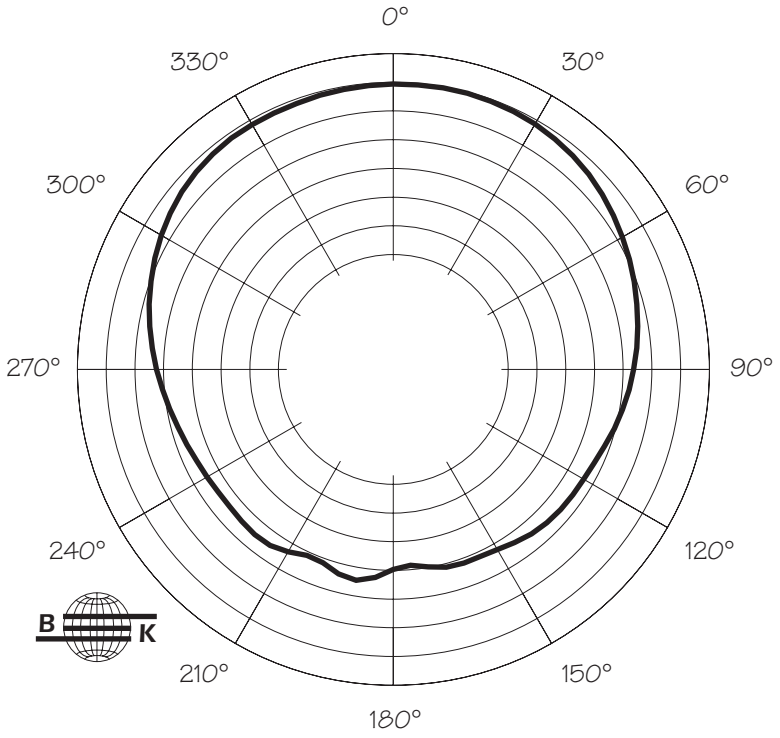


HORIZONTAL OCTAVE POLAR DATA

2S 2000 Hz Horizontal Octave Polar Data

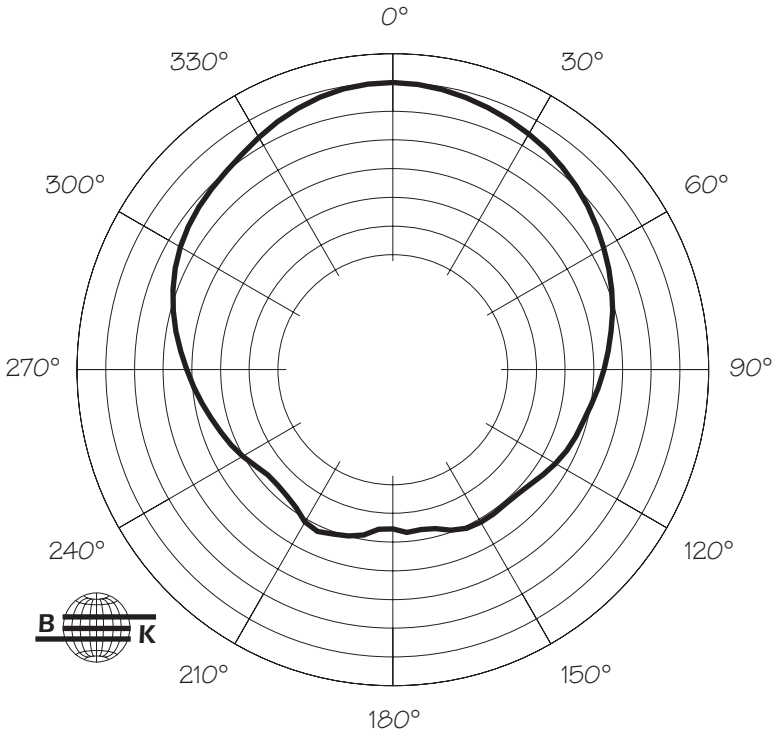


UB12 4000 Hz Horizontal Octave Polar Data

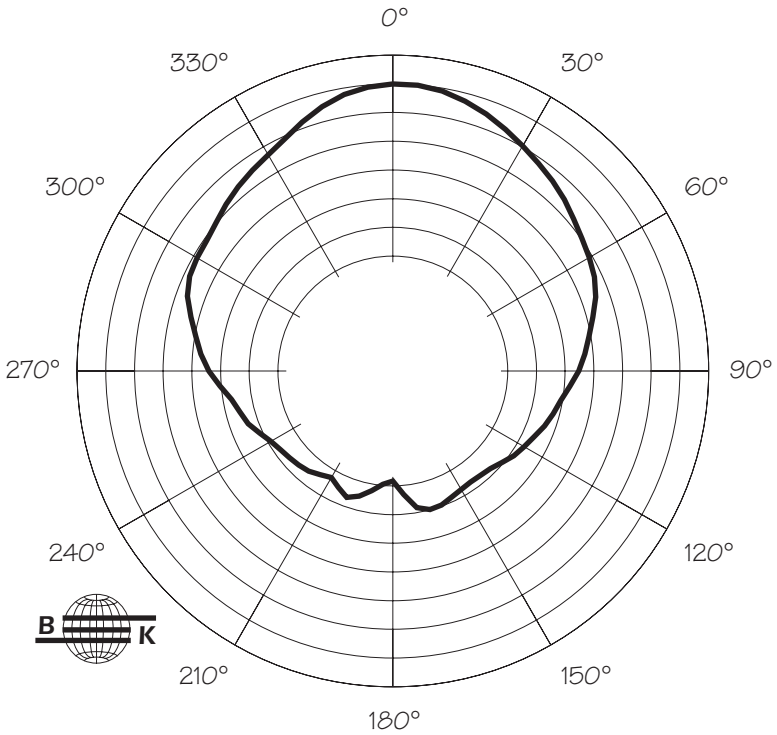


HORIZONTAL OCTAVE POLAR DATA

UB12 8000 Hz Horizontal Octave Polar Data

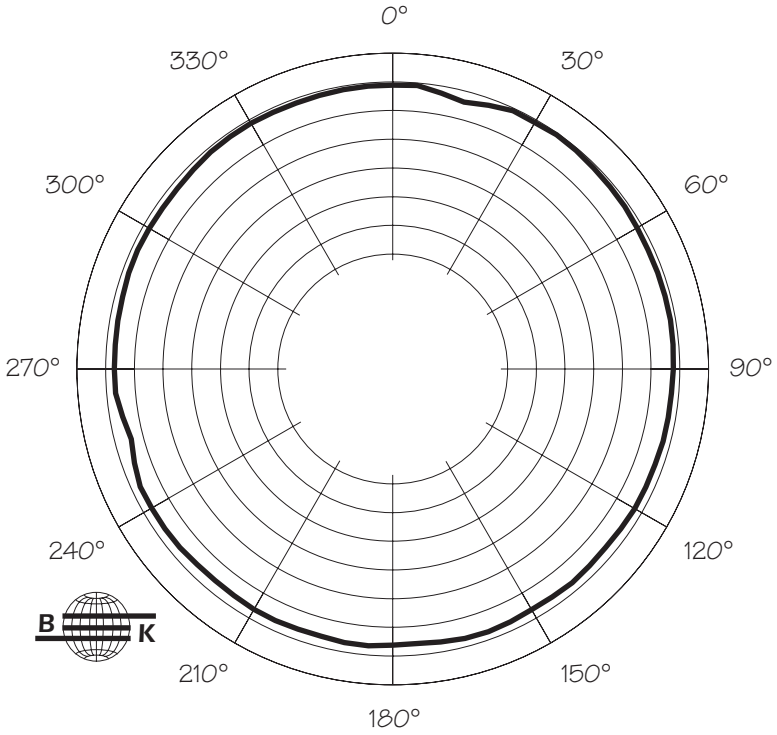


UB12 16000 Hz Horizontal Octave Polar Data

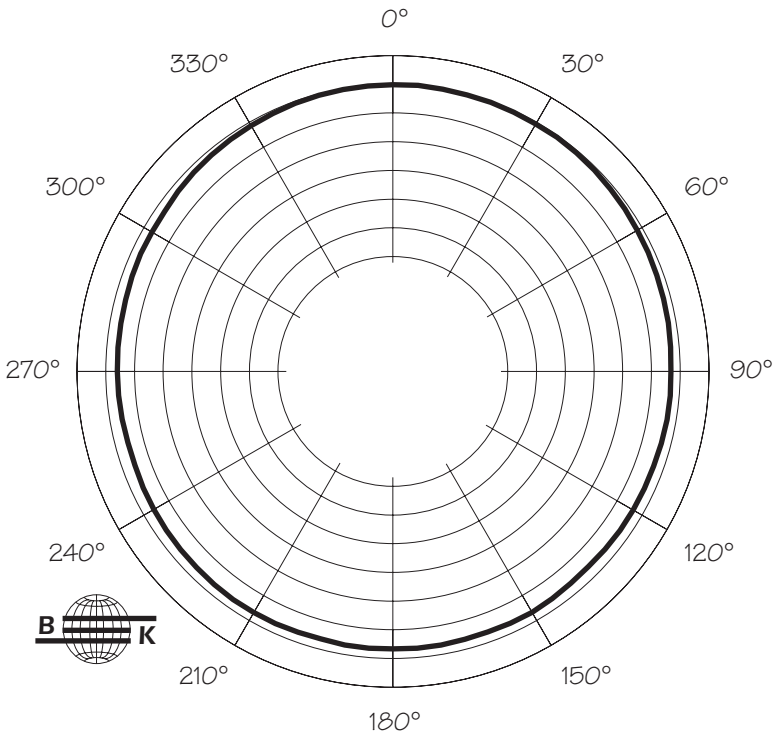


VERTICAL OCTAVE POLAR DATA

UB12 125 Hz Vertical Octave Polar Data

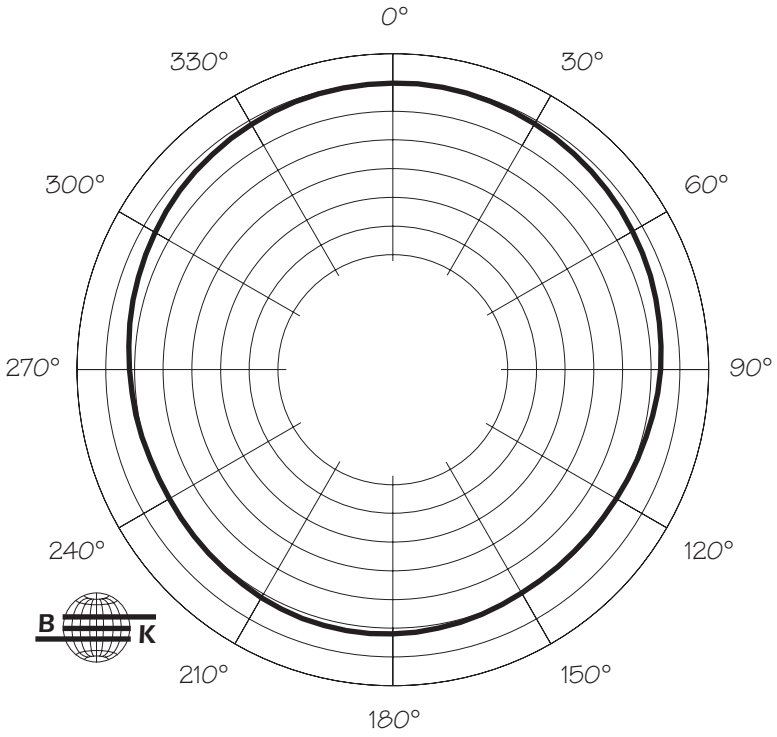


UB12 250 Hz Vertical Octave Polar Data

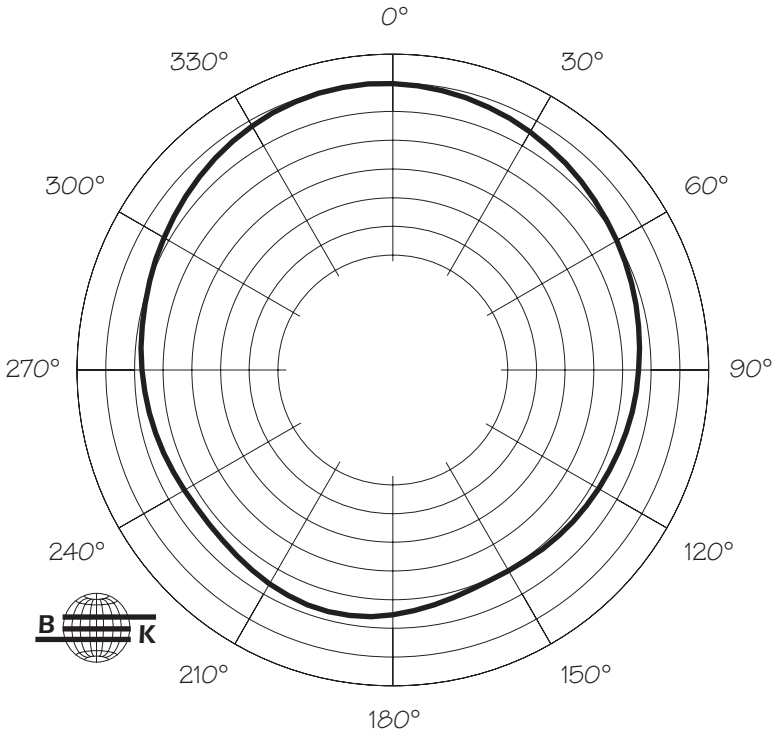


VERTICAL OCTAVE POLAR DATA

UB12 500 Hz Vertical Octave Polar Data

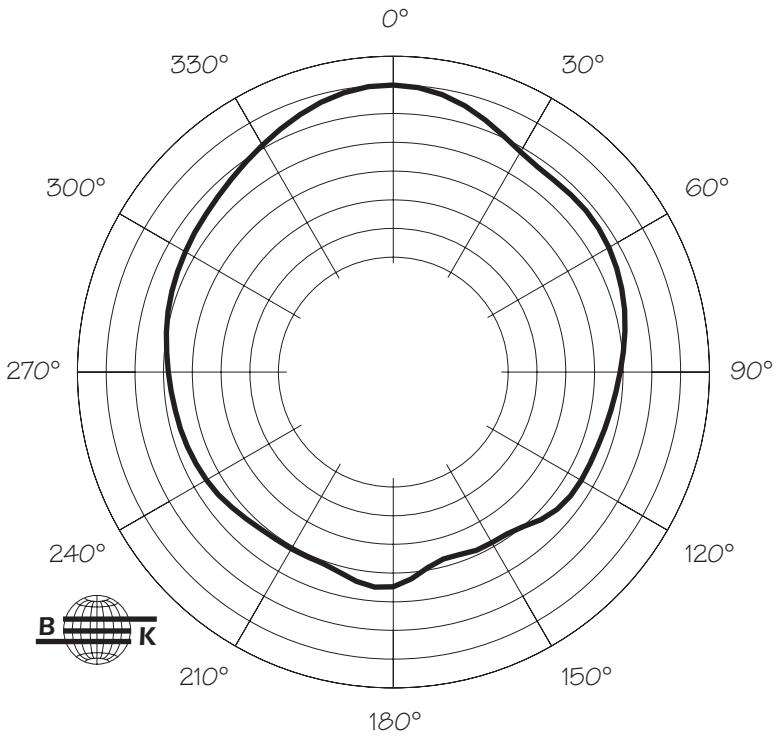


UB12 1000 Hz Vertical Octave Polar Data

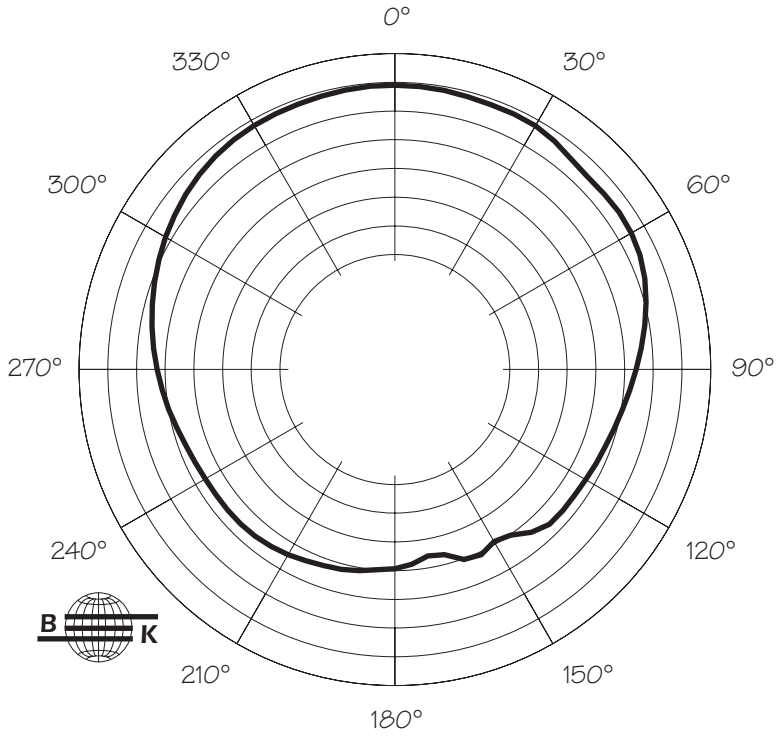


VERTICAL OCTAVE POLAR DATA

UB12 2000 Hz Vertical Octave Polar Data

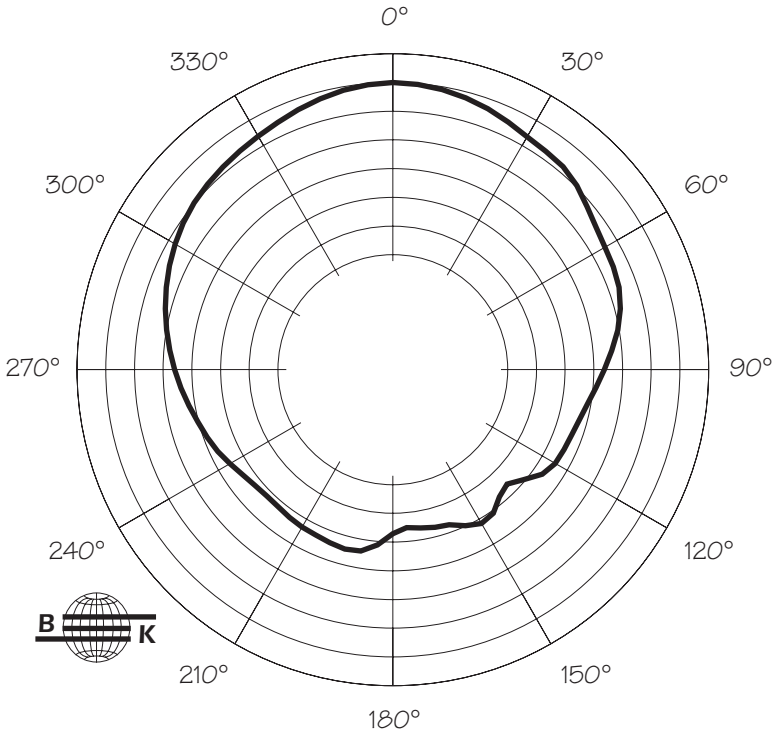


UB12 4000 Hz Vertical Octave Polar Data



VERTICAL OCTAVE POLAR DATA

UB12 8000 Hz Vertical Octave Polar Data



UB12 16000 Hz Vertical Octave Polar Data