

**HP64M**  
**TransPlanar™**  
**Constant-Directivity**  
**Horn**



**General Product Description**

The Electro-Voice® model HP64M is a wide-range, flat-front, high-frequency, constant-directivity horn. Furthermore, excellent loading is maintained to a low frequency of 1000 Hz.

The flat-front design makes the HP64M suitable for all modern boxed and clustered systems. A special vaned waveguide throat detail gives the HP64M unusually good high-frequency control, vertically, when compared to similar 1-inch-throat horn designs.

**Architects' and Engineers' Specifications**

The horn shall be of the constant-directivity type. It shall produce a horizontal nominal beamwidth (6 dB-down angle) of 60 degrees. It shall produce a vertical nominal beamwidth of 40 degrees. In addition, it shall provide useful acoustic loading at all frequencies above 1000 Hz.

The horn shall be of polyurethane construction.

The horn shall possess a throat of 2.36 cm (0.93 in.) diameter and its flange shall be provided with a 1-3/8"



- 18 threaded hole for the mounting of the compression driver. The horn shall be 27.9 cm (11.0 in.) high, 27.9 cm (11.0 in.) wide, and 23.5 cm (9.25 in.) long. It shall weigh no more than 2.5 kg (4.5 lb).

The horn shall be the Electro-Voice model HP64M constant-directivity horn.

**Specifications:**

The following specifications are in accordance with or exceed the AES Recommended Practice for Specification of Loudspeaker Components Used in Professional Audio and Sound Reinforcement (AES2-1984; ANSI S4.26-1984).

**Horizontal Beamwidth:** ..... 60°

**Vertical Beamwidth:** ..... 40°

**Directivity Factor  $R_0$  (Q):** ..... 18.1

**Directivity Index  $D_1$ :**

12.6 dB

10 log  $R_1$

**Lowest Recommended Crossover Frequency:**

1000 Hz

**Construction:**

Black Polyurethane with a matt texture. This construction assures a rigid driver mount, accurate, loss-free throat-wave transmission and low total weight compared to horns of similar size.

**Mechanical Connection of Driver:**

1-3/8"-18 Threaded hole

**Recommended Driver:**

DH2010A, DH2T

**Weight:** ..... 2.5 kg (4.5 lb)

Dimensions:	Inches
A	0.93
B	9.5
C	11.15
D	11.15
E	0.21 x 12
F	9.25

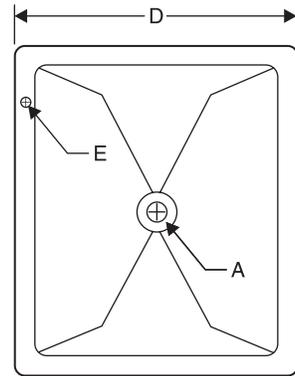
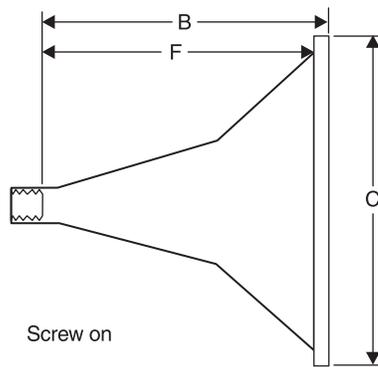


Figure 1: Dimensions

**USA** 12000 Portland Ave South, Burnsville, MN 55337, Phone: 952-884-4051, FAX: 952-884-0043  
**Canada** 705 Progress Avenue, Unit 46, Scarborough, Ontario, Canada, M1H2X1, Phone: 416-431-4975, 800-881-1685, FAX: 416-431-4588  
**Germany** Hirschberger Ring 45, D94315, Straubing, Germany, Phone: 49 9421-706 0, FAX: 49 9421-706 287  
**France** Parc de Courcerin, Alle Lech Walesa, Lognes, 77185 Marne La Vallée, France, Phone: 33/1-6480-0090, FAX: 33/1-6480-4538  
**Australia** Unit 23, Block C, Slough Business Park, Slough Avenue, Silverwater, N.S.W. 2128, Australia, Phone: 61/2-9648-3455, FAX: 61/2-9648-5585  
**Hong Kong** Unit E & F, 21/F, Luk Hop Industrial Bldg., 8 Luk Hop St., San PO Kong, Kowloon, Hong Kong, Phone: 852-2351-3628, FAX: 852-2351-3329  
**Japan** 5-3-8 Funabashi, Setagaya-ku, Tokyo, 156-0055 Japan, Phone: +81 (0) 3-5316-5020, FAX: +81 (0) 3-5316-5031  
**Singapore** 3015A Ubi Rd 1, 05-10, Kampong Ubi Industrial Estate, Singapore 408705, Phone: 65-746-8760, FAX: 65-746-1206  
**Mexico** Av. Parque Chapultepec #66-201, Col. El Parque Edo. Mex. 53390, Phone: (52) 5358-5434, FAX: (52) 5358-5588  
**UK** 4, The Willows Centre, Willow Lane, Mitcham, Surrey CR4 4NX, UK, Phone: 44 181 640 9600, FAX: 44 181 646 7084  
**Africa, Mid-East** 12000 Portland Ave South, Burnsville, MN 55337, Phone: 952-887-7424, FAX: 952-887-9212  
**Latin America** 12000 Portland Ave South, Burnsville, MN 55337, Phone: 952-887-7491, FAX: 952-887-9212

[www.electrovoice.com](http://www.electrovoice.com) • Telex Communications, Inc. • [www.telex.com](http://www.telex.com)

© Telex Communications, Inc. 02/2001  
Part Number 38109-956 Rev A



**Electro-Voice®**

U.S.A. and Canada only.

For customer orders, contact the Customer Service department at  
800/392-3497 Fax: 800/955-6831

For warranty repair or service information, contact the Service  
Repair department at 800/685-2606

For technical assistance, contact Technical Support at 866/78AUDIO

Please refer to the Engineering Data Sheet for warranty information.

Specifications subject to change without notice.