

# 4" Two-way Coaxial Ceiling Loudspeaker System

## **EV** Innovative **D**esign

## **Key Features:**

- 4" coaxial two-way
- Waveguide coupled Ti tweeter
- Full bandwidth overload protection
- Front baffle wattage tap adjustment
- Integrated low loss matching transformer allows for either 70v/100v or 8Ω operation
- Includes tile bridge and mounting ring for easy installation
- Integrated ported enclosure for extended bass response



The Electro-Voice EVID C4.2 loudspeaker system is a complete two-way ceiling loudspeaker package. The package consists of a bezel assembly, grille, rear enclosure, 4-inch coax two-way loudspeaker and internal line-matching transformer. The louspeaker features a waveguide coupled titanium coated dome tweeter. The EVID C4.2 loudspeaker utilizes a 2nd order crossover network at 3.3kHz, with a comprehensive protection circuit to protect the network, woofer, and tweeter drivers from excessive power levels. The C.42 utilizes a transformer that offers a selection of 1.88 (70-V only), 3.75, 7.5, 15 or 30 watts delivered to the louspeaker system using eith 70-V or 100-V lines, or  $8\Omega$  bypass. Selection is via a convenient switch on the front baffle. The perforated grille is finished in semi-gloss white powdercoated enamel. The baffle and bezel are constructed from UL 94V-0 rated ABS. The rear enclosure is contructed from zincplated, heavy gauge steel. The rear enclosure, with fiberglass damping material, provides an optimum internal volume for extended low-frequency performance. A rear cover, with provision for a junction box fitting, provides access to a 4-pin terminal block that allows direct connection to the speaker with 12-gauge wire and provides pass-through to additional speakers. The EVID C2.4D model features a 3-pin fire-safety rated input block. A tile bridge is included for safe suspension of the C4.2 ceiling systems in a drop ceiling that uses mineral wool, or other fiber-based ceiling tiles. The EVID line of ceiling speakers has been designed to work together as a complete system in a wide range of different ceiling constructions. They provide wide dispersion, highefficiency, high-maximum output, ease of installation, and wide-range reproduction of music or voice.



## **Technical Specifications:**

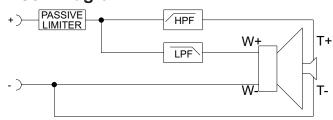
Freg. Range (-10dB):	65Hz-20kHz
Coverage (Conical):	
Power Handling:	
Sensitivity (SPL 1W/1m):	
Max Calculated SPL:	103dB Cont./109dB Peak
Impedance:	
Network:	, , ,
LF Transducer:	4 in. (100mm) Polypropylene cone
HF Transducer:	.75 in. (19mm) Ti Mylar laminate
Transformer Taps:	70V: 1.88, 3.75, 7.5, 15, or 30W 100V: 3.75, 7.5, 15, or 30W Bypass: 8Ω
Connectors:	C4.2: Phoenix type removable, with screw terminals and "loop-thru", accepts 12 ga wire C4.2D: Fire-safety rated input block, 3 terminal barrier strip accepts 12 ga wire
Enclosure Material:	Baffle - UL 94V-O rated ABS Backcan - Zinc plated steel
Grille:	Perforated powder-coated steel with safety tether
Support Hardware:	Tile bridge, backing plate support, cutout template, paint shield
Dim (H x Dia.):	6.9" x 7.1" (176mm x 181mm)
Cutout Size:	7.188" (183mm)
Net Weight (each):	6.0lbs (2.7kg)
Shipping Weight (pair):	14.0lbs (6.4kg)
Safety Agency Ratings:	UL 1480 Safe for use in air handling spaces per UL 2043



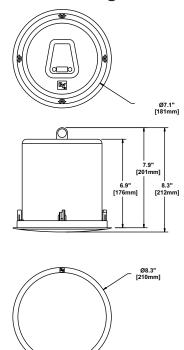
## Architects' and Engineers' **Specifications:**

The EVID C4.2 loudspeaker system shall be comprised of a UL 94V-0 fire rated ABS baffle/bezel assembly, zinc plated steel rear enclosure, powder coated grille with safety tether, transformer with 8Ω bypass and 4-inch polypropylenelow frequency transducer with coaxially-mounted waveguide loaded 3/4-inch titanium coated dome tweeter. The louspeaker shall meet the following criteria: power rating shall be 50 watts of EIA RS-426A pink noise (6dB crest factor). Frequency response, uniform from 65Hz to 20Hz. Pressure sensitivity, 86dB SPL at 1meter (3.3 feet) on axis with one watt of pink noise (ref. 20μPA). Minimum impedance, 6.0Ω. The loudspeaker shall be 181mm (7.1in.) in diameter and 176mm (6.9in) deep. Weight shall be 2.7kg (6.0lb). The coaxial ceiling louspeaker shall be the Electro-Voice model EVID C4.2.

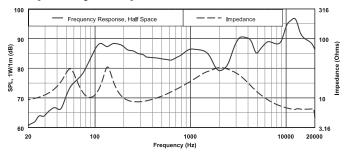
## **Block Diagram:**



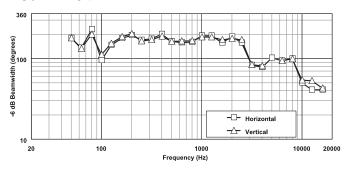
## **Dimension Drawings:**



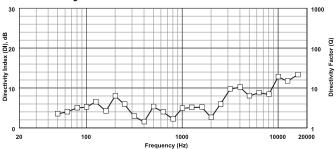
## Frequency Response:



### Beamwidth:



## **Directivity:**



#### **Performance Match**

- EVID C10.1 Subwoofer
- **CPS-1 Power Amplifier**
- **CPS-2 Power Amplifier**
- **CPS-2T Power Amplifier**
- MA-1206 Mixer Amplifier
- MA-1212 Mixer Amplifier

#### **EVID C4.2 Commercial Code**

EVID C4.2

#### **EVID C4.2D Commercial Code**

PRD000263100

## Warranty:

Please refer to the Limited Warranty information found at: www.electrovoice.com

# **Electro-Voice**

12000 Portland Avenue South, Burnsville, MN 55337 Phone: 952/884-4051, Fax: 952/884-0043

www.electrovoice.com

© Bosch Communications Systems Part Number F.01U.177.697 Rev 007 11/2011

U.S.A. and Canada only. For customer orders, contact Customer Service at: 800/392-3497 Fax: 800/955-6831

Europe, Africa, and Middle East only. For customer orders, contact Customer Service at: + 49 9421-706 0 Fax: + 49 9421-706 265

Other International locations. For customer orders, Contact Customer Service at: + 1 952 884-4051 Fax: + 1 952 887-9212

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

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