

## ALL WEATHER LOUDSPEAKERS

CERTIFICATE OF CONSTANCY OF PERFORMANCE  
n. 0068/CPR/067-2019

**EN 54-24:2008**

ATTESTATION OF CONFORMITY  
n. CPR/181446\_1-1-2019  
EN 60529:1991-10



Declaration of Performance (DoP) available  
on the website [www.fbt.it](http://www.fbt.it)



### MAIN APPLICATIONS

Permanent installations in:

- Theme and Amusement parks
- Outdoor Entertainment centers
- Multipurpose indoor/outdoor venues
- Background music
- Athletic fields
- Swimming pools
- Convention centers
- Cruise ships
- Stadium, Arenas

### MAIN FEATURES

- 2-way
- Sturdy molded polyethylene curved enclosure
- 12" coaxial woofer with 2.5" coil
- 1" HF driver with 1.7" coil
- 100V line transformer (model 112HCT)
- 4 wires cable to select the power tapping
- IP55 weather resistant
- Standard black finish
- Designed and engineered in Italy

### DESCRIPTION

The FBT SHADOW 112HC/EN is a weatherproof coaxial two way loudspeaker system offering substantial power and efficiency for a variety of professional indoor or outdoor applications. The low frequency transducer is a 12" woofer with a 2.5" voice coil. The high frequency section is a 1" driver with 1.7" voice coil on 80° x 50° rotatable horn. The FBT SHADOW 112HCT/EN features a standard 70V/100V line transformer with selectable power tapping. The cabinet is a single piece rotational moulded in polyethylene, fully UV protected.

The FBT SHADOW 112HC/EN is internal equipped with ceramic terminal block and thermal fuses ensuring the continued operation of loudspeakers in the event of a fire; in addition all connections use flame-retardant cabling which adheres to the EN50200 standard (with IP68 airtight cable glands). The cabinet is equipped with a stainless steel U-bracket and one security anchoring point located at the rear of the loudspeaker. The grille is in custom perforated stainless steel with 3 layers of protection.

The FBT SHADOW 112HC/EN meets the requirements of IP55 code (International Protection Rating).

### TECHNICAL SPECIFICATIONS

#### GENERAL

Configuration	way	2
Low frequency woofer	inch	12 / 2.5 coil
High frequency driver	inch	1" / 1.7" coil
Transformer (optional for 112HC)		100V / 200W-100W

#### ACOUSTICAL SPEC.

Nominal Impedance	Ohm	8
Frequency response	@-6dB	98Hz - 19kHz
Max SPL (1mt / 4mt)	dB	123 / 111
Crossover frequency	kHz	1.6
Recommended HP filter		80Hz - 24dB oct.
Sensitivity (@1W, 1m)	dB	101
Dispersion Horizontal (-6dB)		500Hz: 100°
		1kHz: 50°
		2kHz: 60°
		4kHz: 70°
Dispersion Vertical (-6dB)		500Hz: 100°
		1kHz: 50°
		2kHz: 80°
		4kHz: 50°

#### AMPLIFIER

Recommended amplifier	W rms	400
Rated noise power (100hrs)	44.5V W	250
System short term power (IEC 268-5)	W	800
Nominal impedance (100V line)		50 Ohm 200W / 100 Ohm 100W

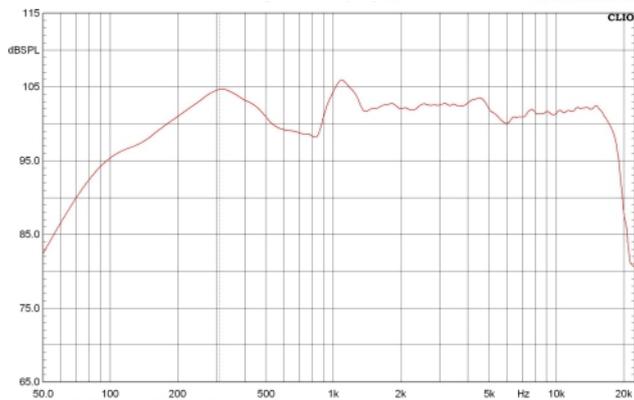
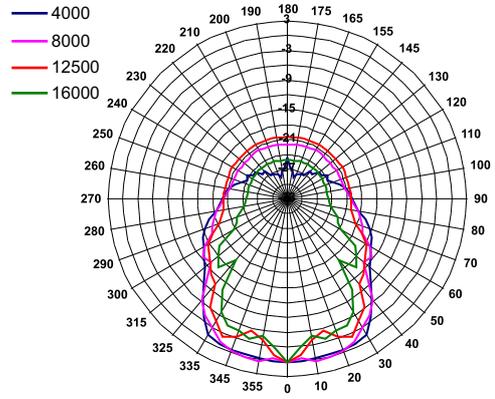
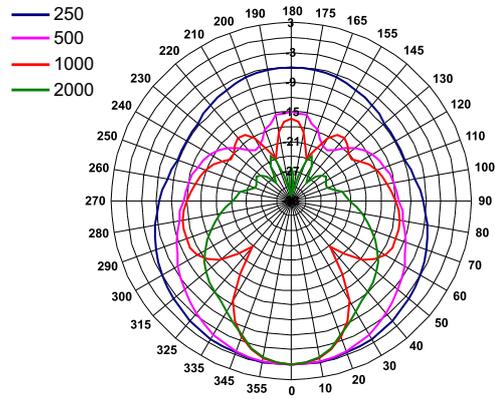
#### INPUTS / OUTPUTS

Input connectors		4 wire cable
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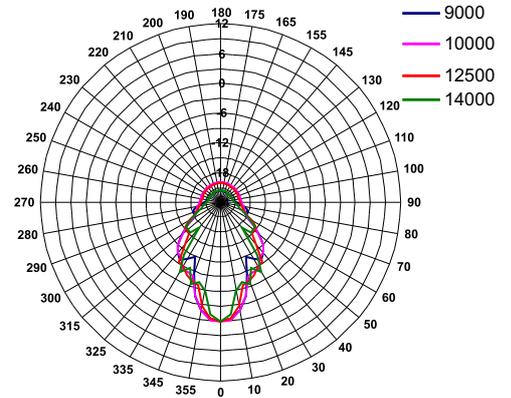
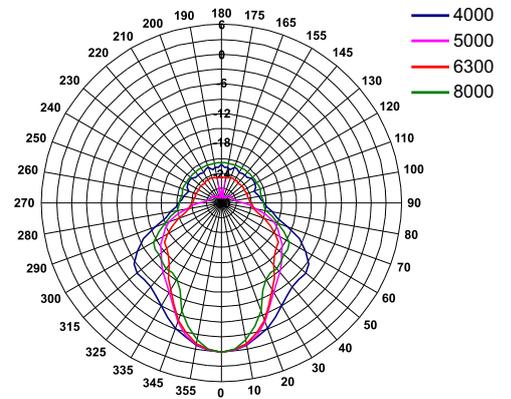
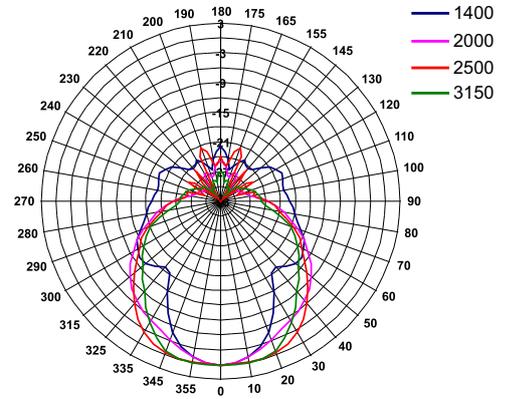
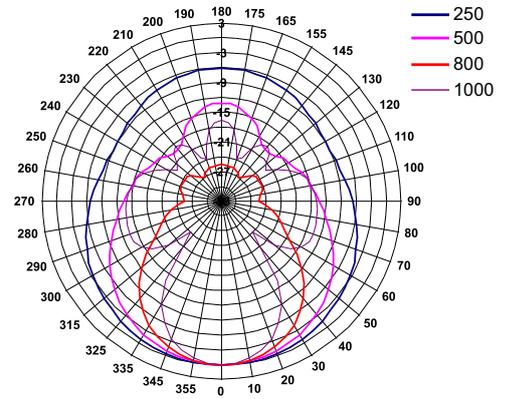
#### PHYSICAL

Enclosure material		Polyethylene rotomoulded
Grille		Custom perforated stainless steel
Net dimensions (W x H x D)	inch	16.92 x 16.92 x 15.74
Shipping dimensions (W x H x D)	inch	20.86 x 20.86 x 19.68
Net weight	lbs	46.3
Shipping weight	lbs	50.7
Operating / Storage temperature		-25°C to 55°C / -40°C to 70°C
Relative umidity		< 95%

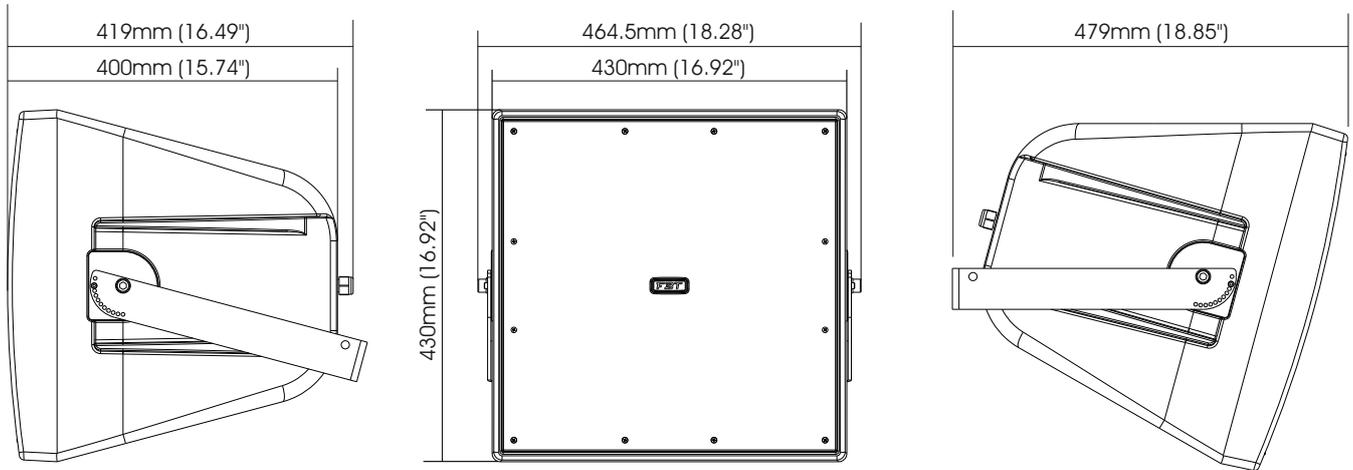
## HORIZONTAL POLAR DIAGRAM



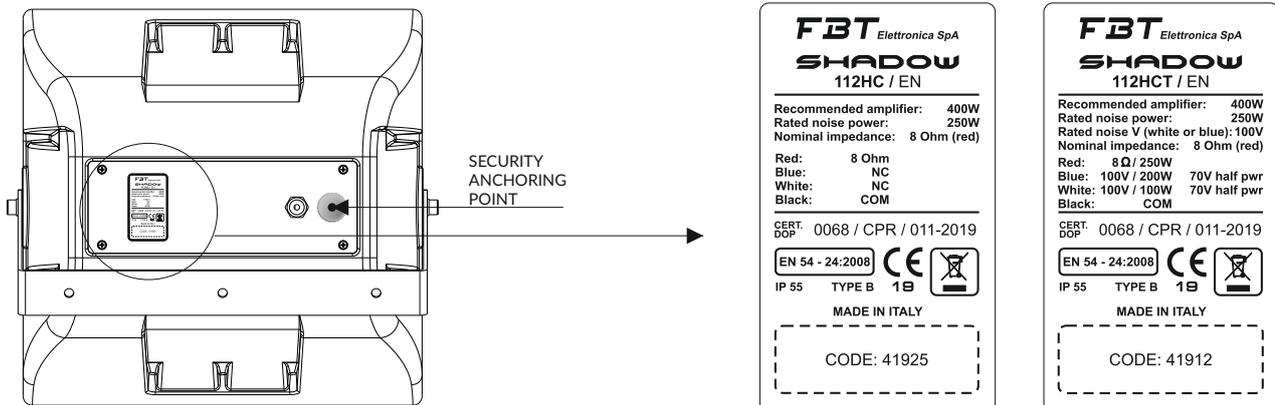
## VERTICAL POLAR DIAGRAM



## DIMENSIONAL DRAWING



## TECHNICAL SPECIFICATIONS LABEL



## SUPPLIED ACCESSORY

