

# DU 50EN

## ALUMINIUM SPEAKER



### MAIN APPLICATIONS

- Voice evacuation system
- Schools
- Shopping malls
- Hospital
- Museums
- Hotels
- Office building

### DESCRIPTION

DU 50EN is a speaker with high intelligibility designed for use in alarm messages and background music.

The 4.5" full range speaker is included in a steel can; the speaker is provided with a multitap transformer for 100V/70V constant voltage systems, a terminal block made with ceramic material for input and output ant flame cables and thermal switch. DU 50EN is complying with EN 54-24 standard.

### MAIN FEATURES

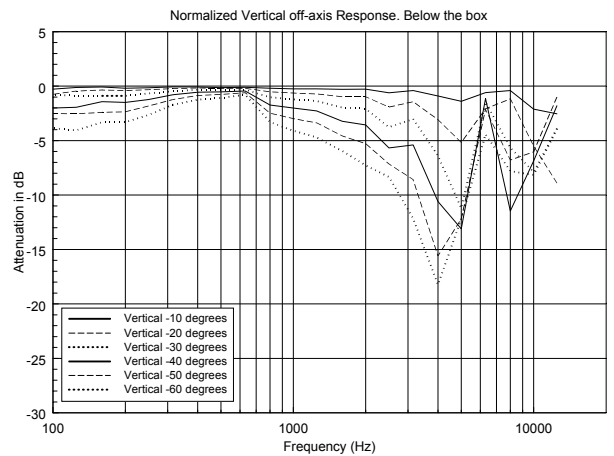
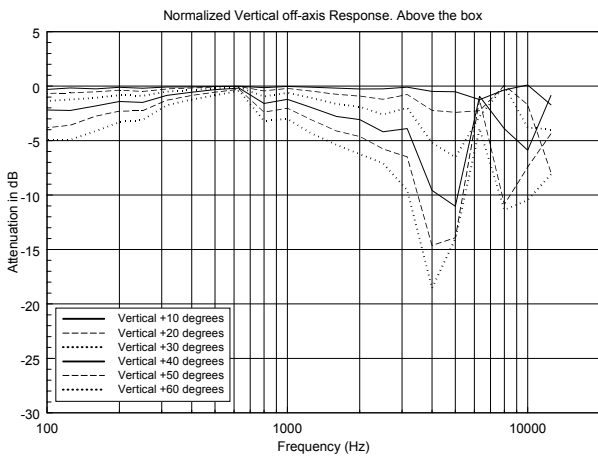
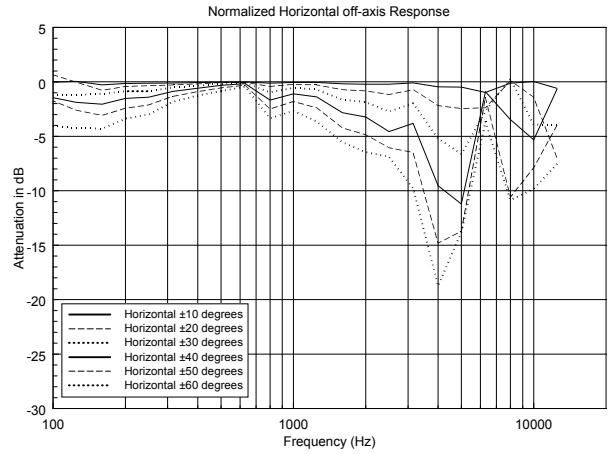
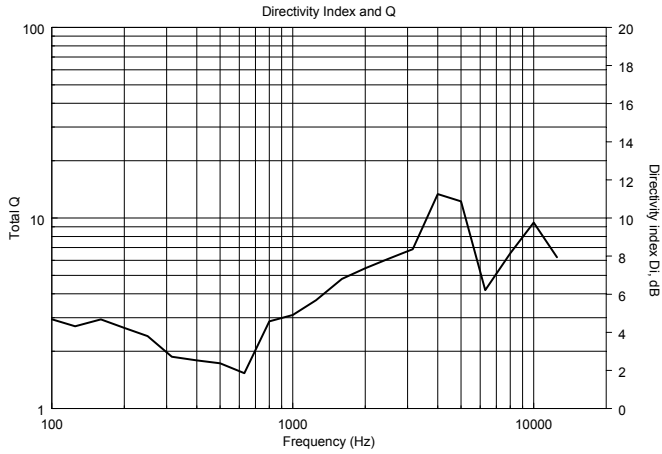
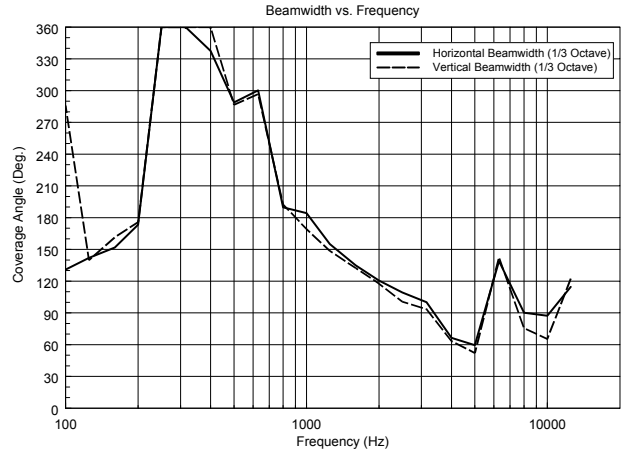
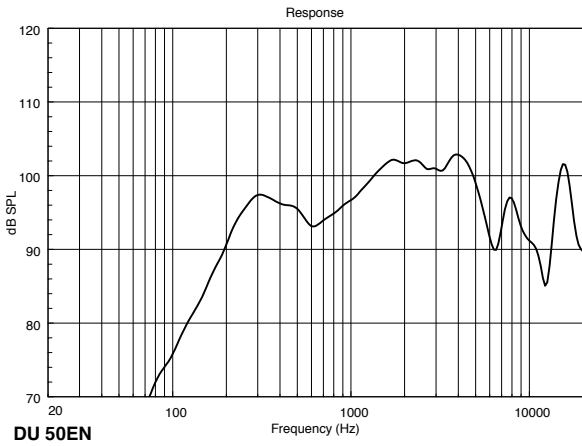
- Speaker designed for transmitting alarm messages with high intelligibility, and background music
- Musical power/RMS: 12/6W
- Wide-band dual cone loudspeaker, diameter 5"
- Extra-thick steel housing, terminal strip for connections made of ceramic material for flameproof input and output cables, thermal fuse, suitable internal wiring
- In compliance with norm EN 54-24
- Colour: RAL 9010 White

### SPECIFICATIONS

Loudspeaker	4.5" woofer wide band dual cone
Power (on 8 Ohm load)	6 / 12 W (RMS / Music power)
Power	6 W - 3 W - 1.5 W - 0.75 W (100V)
Sensitivity	91 dB (1 W / 1 m)
Mx. SPL (6 W / 1 m)	102 dB(A) (1 m / POWER MAX)
Frequency Response	200 Hz - 12 kHz
Angle of coverage	180° / 120° / 65° @ 1 / 2 / 4 kHz (hor.)
Connector	Ceramic terminal block
Body colour	White RAL 9010
Main body material	Extra thick steel
Grill material	Steel
Dimensiones (HxWxD)	164 mm x 164 mm x 60 mm
Installation	Screw anchors
Drilling template	163.5 mm x 163.5 mm
Net weight	2 kg
Operating temperature	-25° to +55°
Relative humidity	90% non condensing

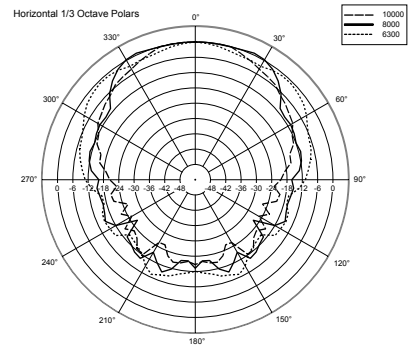
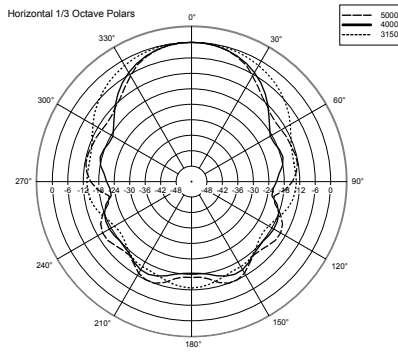
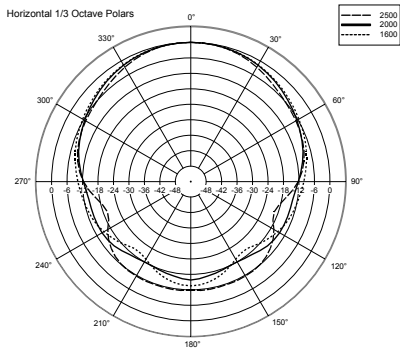
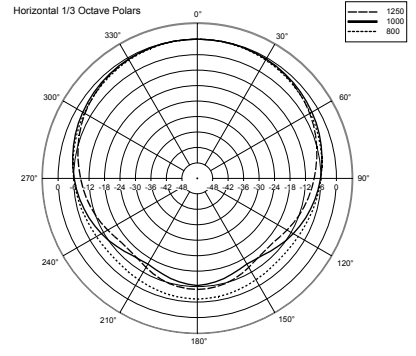
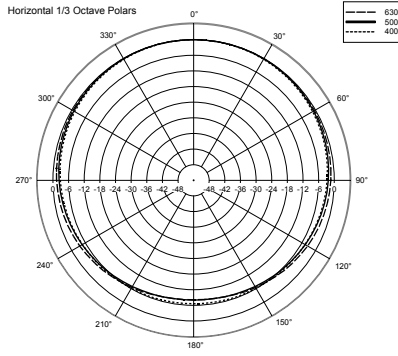
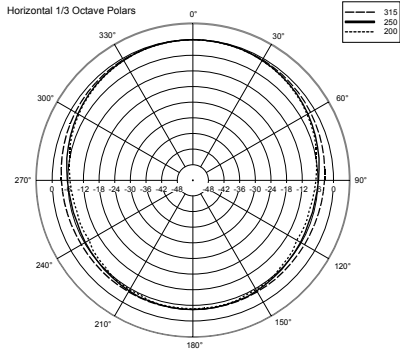


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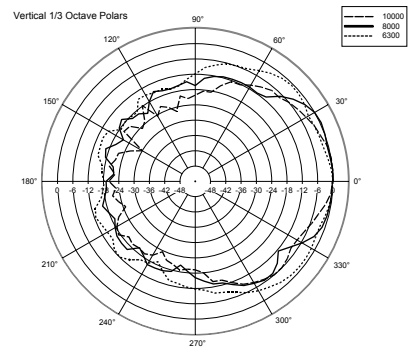
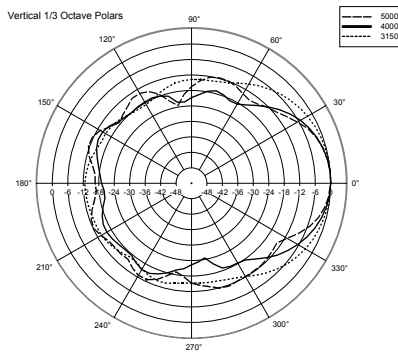
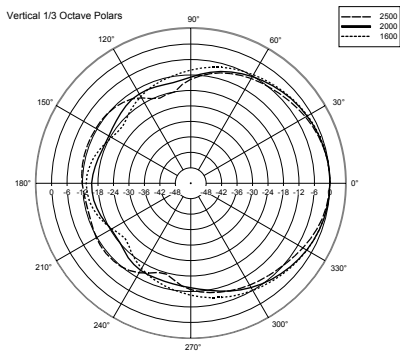
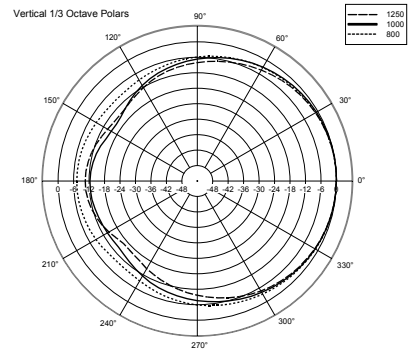
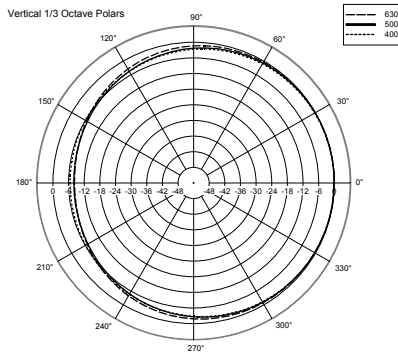
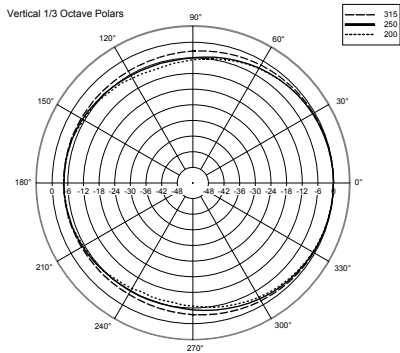


# DU 50EN

## HORIZONTAL 1/3 POLAR PLOT



## VERTICAL 1/3 POLAR PLOT

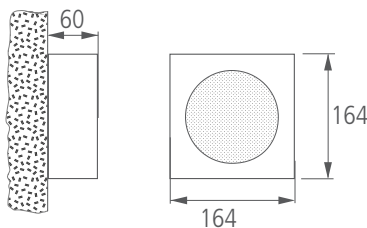


# DU 50EN

## PART NUMBERS



13133064

## DIMENSIONS (All data are in mm)



## POWER SELECTION

Define the colour cable to selected the chosen power value referring to the 100 V line (among 0.75 W – 1.5 W – 3 W – 6 W ) so the correspondence impedance (among 13333  $\Omega$  – 6666  $\Omega$  - 3333  $\Omega$  – 1666  $\Omega$ )

**RCF DU 50**    
STEEL WALL MOUNTING SPEAKER

70V	0.375W	0.75W	1.5W	3W	COM
100V	0.75W	1.5W	3W	6W	COM

## INSTALLATION NOTES

Remove the loudspeaker front part from the back by unscrewing the 3 lateral screws, then fix the loudspeaker rear part to the chosen point of the wall / ceiling through 4 wall-plugs (not included).

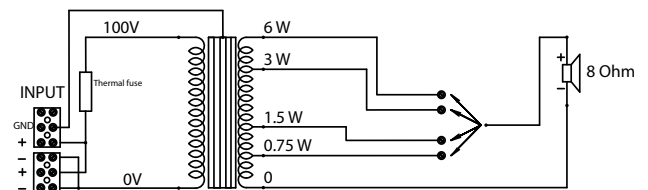
Do not use this loudspeaker with its front upwards (in order to avoid malfunctions) and in tropical climate. It shall not be exposed to dripping or splashing.

The system needs to be correctly dimensioned to get an uniform acoustic coverage and sufficient sound pressure levels (in order to get the best speech intelligibility).

Connect all cables as described in the next manual section, then fix the loudspeaker front part to the back by screwing the 3 screws (previously removed).

In outdoor use, avoid in stalling the loudspeaker in places exposed to harsh weather conditions.

## SCHEMATICS



## CERTIFICATIONS AND APPROVALS

- EN 54-24:2008 compliant

