

## LIFE FIDELITY SERIES

# LFi4eT

### Invisible Loudspeaker Product Data Sheet



- **Completely Invisible, high fidelity loudspeaker**
- **Easy to install into cavity walls, solid walls or ceilings**
- **Simply skim over with a finishing coat of plaster**
- **Suitable for low/ medium powered audio systems**
- **Features new technologies providing smooth frequency response and enhanced clarity.**

The Amina LFi4eT is a totally invisible full range loudspeaker system designed for use in commercial installations where high clarity sound and wide, even audio coverage is required whilst allowing the ability to create exceedingly high quality wall or ceiling finishes of all kinds.

Using Distributed Mode Technology the LFi4eT works just like a natural musical instrument creating a large, vibrating soundboard. It shares the musical instrument's ability to generate high sound pressure levels over wide areas and with even distribution. The vibrating area of the speaker is flat and has been designed specifically to be embedded behind a gypsum plaster skim or a thin veneer of wood or fibreboard.

Due to their wide dispersion of sound, positioning the LFi4eT in a room is much less critical compared to conventional loudspeakers. Also, the number of loudspeakers required in any one space is dramatically reduced (up to 4 to 1) resulting in reduced installation cost and complexity.

The vibrating panel surface of the LFi4eT is composed of an absorbent paper skin providing high bond adhesion to wet plaster similar to the surface of plasterboard/dry wall/Gypsum. Once plastered over with a standard 2mm high quality finish skim coat (accepts many plaster types including polished), the wall or ceiling surface can then accept paint, wallpaper, flock, leather or textured finishes.

Metal back boxes are available for pre-installation in solid walls or for providing sound proofing in plasterboard cavity walls or ceilings. These are used in the majority of cases and help create a consistent cavity for sound reproduction.

Alternatively, optional installation lugs can be supplied for 12.5mm (1/2" & 5/8" for USA) plasterboard stud walls or ceilings. Lugs for alternative board thicknesses are available on request. A quick installation process is made possible because this lightweight loudspeaker is attached to the plasterboard and not to the stud work or any rear structural sections.

The Amina LFi4eT allows the ultimate in ambient entertainment and communication systems to be achieved with zero aesthetic impact on room design and decoration.

## Application

Flush mounted into walls and ceilings (Gypsum board or solid construction types) and skimmed over for a truly invisible audio solution in multi speaker commercial properties and public buildings.

## Environment

Interiors, wet rooms (bathrooms, kitchens and pool areas)

## Life Fidelity LFi4eT Part Numbers

LFi4eT70/10 - (10W tapped for 70V line systems)  
LFi4eT70/20 - (20W tapped for 70V line systems)  
LFi4eT70/40 - (40W tapped for 70V line systems)  
LFi4eT100/10 - (10W tapped for 100V line systems)  
LFi4eT100/20 - (20W tapped for 100V line systems)  
LFi4eT100/40 - (40W tapped for 100V line systems)

## Warranty

The product is maintenance free and is designed to operate reliably for many decades. Correctly installed and operated in accordance with this specification, Amina warranties the LFi4eT against defective materials and workmanship for a period of 5 years.

## Optional Accessories

- **BackboxSW300** - Metal back box for easy installation in solid and block wall types.
- **BackboxCV300** - Aluminium back box for Gypsum board walls/ceilings. Provides additional sound insulation.
- **Firehood300** - 60 minutes rated woven fire hood. Fits around BackboxCV300 if required.

Specifications	LFi4eT
Dimensions	400mm x 300mm x 40mm (15 <sup>3/4</sup> " x 11 <sup>4/5</sup> " x 1 <sup>3/5</sup> " )
Weight	2.78kg (1.26kg)
Available Input Tappings	100V Line: 10W, 20W / 70V Line: 10W, 20W
Frequency Response	110Hz - 15.6KHz (-6dB)
Dispersion Angle (HxV)	180° x 180° (-6dB)
Active radiating area	120,000mm <sup>2</sup> (186" <sup>3</sup> )
Sensitivity	85dB 1m / 1W (measured with 2mm/0.08" multi-finish plaster skim applied)
MAX SPL	101dB 1m / 40W (measured with 2mm/0.08" multi-finish plaster skim applied)
Electrical Connection	Professional insulated butt splice, accepts <2.6mm (14AWG) conductor diameters. (requires professional crimp tool)
Manufacturer	Amina Technologies Ltd, Cambridgeshire, UK
Construction	Powder coated aluminium chassis. Aluminium honeycomb core, doped paper skin composite active panel
Installation kit (optional)	Lugs suitable for 12.5mm thick Gypsum/plaster board (other thicknesses available on request). Lugs suitable for 1/2in and 5/8in board supplied as standard in USA and Canada.
Backbox (optional)	Backbox CV300/ Backbox SW300
Required external filtering	24dB/octave high pass filter at 80Hz or higher
Operating temperature range	5°C - 35°C (41°F - 95°F)

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