

HF1440, A NEW POWERFUL COMPRESSION DRIVER

PROLIGHT+SOUND - HALL 8.0, BOOTH # E94

Faital S.p.a., well known Italian company based in Milan, has been producing high-quality loudspeakers for 61 years and has won numerous international awards in the TV, Public Address, OEM and Automotive sectors. The FaitalPRO division shares the same passion and since 2006, has been producing loudspeakers that are highly considered in pro-audio markets.

FaitalPRO HF1440: a new powerful 1.4" neodymium compression driver. FaitalPRO produces a series of lightweight compression drivers with very compact dimensions which allow weight reduction as well as a close spacing in compact size cabinets. This translates into an obvious advantage in the professional market of sound reinforcement, and for high-class universal use in touring and fixed installations.



HF1440
1.4" NEODYMIUM HF DRIVER

Flavio Naggi, sales and marketing manager of FaitalPRO, explains: "The new HF1440 is a completely new compression driver, very powerful and outstanding, which joins a series of really compact high frequency drivers.

Mounting a 3.4" voice coil, we are now facing a market area that has been completely unexplored so far for FaitalPRO. It is the model with the largest voice coil in our catalog.

Furthermore, it covers a fairly wide frequency range from 0.7 to 20 kHz allowing it to be used as a high-power driver in any traditional application, including two-way acoustic systems. Its very linear frequency response gives a neutral and natural sound tonality capable of obtaining a very high sound quality".

The neodymium magnet circuit uses an 86mm, 3.4" coil, which classifies it as a large driver, nonetheless the external dimensions make it surprisingly compact.

The diaphragm carries over some technological choices common to other consolidated FaitalPRO drivers and is a polymeric type, precisely a ketone polymer.

Developed to ensure an unparalleled response to transients, it is able to withstand high continuous power, up to 120W AES, corresponding to 240W of maximum power.

Designed to operate at a minimum crossover frequency of 700 Hz, it reaches low frequencies so as to facilitate perfect matching with a woofer.

This makes it excellent even in a two-way configuration as well as a three-way with a midrange.

It was designed with great attention to detail using FEM simulation so as to withstand the important mechanical excursions related to low frequencies.

The magnet assembly is made of higher quality neodymium with an innovative geometry that makes it particularly powerful and guarantees a high induction or flux density in the air gap at 2.2 Tesla.

The driver has a 1.4" throat with an efficiency of 109 dB and 120W of continuous power AES and maximum of 240W.

This product may be used with the FaitalPRO horn LTH142 or the FaitalPRO WG141 waveguide.

Flavio Naggi concludes: "The peculiarity of this new HF1440 compression driver is to allow the user to set the crossover at a relatively low frequency and at the same time, easily extend the frequency response up to 20kHz.

We recommend it for use in line array systems, especially in the new generations of lighter and more compact enclosures.

It is ideal in high power acoustic systems as well as in classic two-way PA systems".

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