

MF10 / MF10A

Bi-amplified or self-powered, multi function speaker



Presentation

The PROPHON MF10 is a lightweight, two-way bi-amplified or self-powered (MF10A) Multi Purpose speaker with a 10"-neodymium woofer, and a 1"-compression driver mounted on an exponential turnable horn with a 60° 90° dispersion.

MF10 is one of the most versatile speakers on the market, with an abundance of features.

The MF10 was designed to be a true companion on the road, and can be used as a monitor, frontfill, side fill, down fill, delay, stand alone unit, mid/high with a Self-powered subwoofer in an active system (Prophon B18HPA, B2HPA, B1HPA, B4HPA)

The frequency response was carefully designed to be neutral and "open" to ensure an uncoloured sound reproduction. So whether using for recorded music, live applications or speech, the MF10 will reproduce the sound as it sounds without adding or subtracting vital information.

In short, the MF10 is all you need in a compact, high power, multi purpose, fullrange speaker & stage monitor!

MF10 are available in two versions:

- **Bi-amplified version** with built-in passive crossover network to use with external amplifier (using 1 amplifier channel)
- **Self-powered version** with a built in DSP-processed 700W class-D amplifier.

The self-powered version has a huge advantage with a built in 700W amplifier with on board DSP.

With 4 PRESETS for use in a variety of ways and setups.

- PRESET4) MID/HIGH, for use in a self-powered active sound system with a subwoofer
- PRESET3) Monitor, focus is put on the upper midrange to enhance the vocal frequency response
- PRESET2) Extended Fullrange, for use as a fullrange stand alone unit with extra punch.
- PRESET1) Flat Through, for use as a stage monitor, fullrange speaker, stand alone unit etc.

Features

- Volume control (active version)
- Built in limiter (active version)
- Top Hat for use with speaker stand or wall mount bracket.
- The top hat can be changed to a M10 plate for using flight ware or installation bracket (see picture)
- Monitor angle for use as a high power stage monitor
- The handle is hidden when using as a monitor, for best visual experience.
- Fully covering, protective perforated steel grille, with minimum air flow resistance
- Fully covering protective speaker foam.
- Painted with a specially developed 2-component hardened paint.
- Rails for protecting against damage when using as a stage monitor.
- Due to its compact size it is ideal for the event and rental business.



Picture showing two MF10A in an active rig with two B1HPA self-powered subwoofers

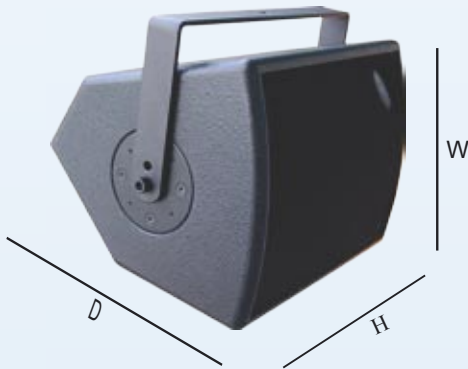
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Picture showing the built-in 700W class-D amplifier module with full DSP processing and 4 presets for choosing different setups.

The MF10 fitted with the UB10 installation bracket



There are two different cases available, fitting two or four MF10

Technical data MF10:

Model	MF10, Passive Bi-amped MF10A, active, self-powered
Low frequency driver	1 x 10" Neodymium woofer, 2,5"-voice coil,
High frequency driver	1 x 1"-throat exit driver, with 1,7"- voice coil mounted on an exponential horn.
Construction	Bi-amped, passive crossover, Tuned bass reflex
Sensitivity	99 dB@1W/1m.
Nominal impedance	8 ohm
Power handling R.M.S.	300W
Power Handling cont..	600W
Max SPL, open space (calc.)	127 @ 600W
frequency response +/- 6dB	50Hz - 19kHz
Vertical dispersion -6dB	60°
Horizontal dispersion -6dB	90°
Measurements H x W x D mm.	460 x 335 x 295
Weight	passive: 11,5 kg. Active: 12,6
Recommended crossover in an active system with subwoofers	HP@100Hz, 48dB/oct
Recommended Amplifier	PROPHON P4700DSP, P3000 P1300, P3000DSP
Recommended pre-programmed DSP processors	PROPHON DSP26, PROPHON DX48, PROPHON DSP48
Recommended Powerage	300W - 600W
Connections (bi-amped version)	2 x Neutrik Speakon 1+ / 1- Input / through 2+ / 2- Link
Applications	- Fixed Installations. - Live performances. - Monitor. - Fullrange speaker - Mid/high in a PA- system with subwoofer
Accessories	- Transportation case - Flight ware for rigging

Extended Technical information self-powered version

Connections	Input: Neutrik XLR female Link out: Neutrik XLR male Power in: Neutrik powercon blue
Mains Voltage Range	195 - 250 V _{ac} , 50/60Hz
Shutdown Voltage	250 V _{ac}
Minimum operation Voltage	195V _{ac}
Efficiency	>85% (typical)
Damping factor	> 500@100Hz, 200@1kHz
Distortion	<0,5% (THD, DIM, SMPTE)
Power	2 x 500W
S/N ratio	<105 dBA (20Hz - 20kHz A weighted)
Frequency response	10Hz - 30kHz