



FEATURES

- FULL 1018 is a 3-way active tri-amplified speaker system, composed of one passive satellite and an active bass cabinet.
- 3 class D power amplifiers (with switching-mode power supplies) can supply a total power of 2500 Watts EIAJ (1000 W to the bass cabinet, 1500 W to the satellite speaker system)
- 133 dB max SPL.
- FULL 18 bass cabinet: 18" woofer (4" voice coil) with a ventilated, shielded neodymium magnet.
- FULL 10 satellite: 10" woofer (3" voice coil) with a ventilated, shielded neodymium magnet; HF driver, with 1" throat and 2.5 " voice coil, featuring a neodymium magnet and titanium diaphragm; wide dispersion (80° H x 60° V) wave-guide horn.
- Montarbo 56 bit DSP, 180 MHz, 24 bit converters.
- Dedicated standby function.
- 5 presets one of which may be customized and loaded into the DSP.
- Presets remote control and customization by means of the proprietary software program RAConLS™ and the optional LD2.4 USB interface.
- With a single LD2.4 USB interface it is possible to operate up to 10 speaker systems of the SPOT, WIDE and FULL series.

FULL 1018 is a very high quality 'plug & play' system featuring an exceptional power-to-size ratio, which makes it very easy to transport and install. What differentiates the FULL 1018 system from similar systems available on the market is the designer's selection of high quality drivers, usually featured in larger systems.

The geometric shape of the cabinets and the bass-reflex ports have been carefully designed to reduce power-compression and turbulence. The FULL 18 bass cabinets incorporates all the electronics needed to process and power the whole system. It is equipped with class D amplifiers (with switching-mode power supplies) controlled by the Montarbo DSP loudspeaker management processor (56 bit, 180 MHz, 24 bit converters) which provides filtering, equalization, delay, limiting and diagnostic functions. This DSP utilizes an advanced algorithm for the real time control of the power output and the temperature (both internal and external) of the amplifier. It also includes a dedicated standby function which results in reduced power consumption when no signal is present. 5 presets are available, one of which may be customized by the user, thus adapting the speaker's acoustic response to the user's personal taste.

The presets can be modified by means of the Montarbo proprietary software program RAConLS™ supplied with the LD2.4 USB interface (optional device). The remote control allows: programming and storage of one preset in the DSP and the creation of an unlimited library of personalized settings in the PC; adjustment of the frequency response by means of a 10 filter 'fully parametric' equalizer; adjustment of the delay time and of the output level of each speaker system; monitoring of the power amplifier's condition.

- Birch plywood cabinet, finished with anti-abrasion paint.
- 8 threaded studs (M10) for safe and simple suspension of the satellite; adapter for the SM5 coupling bar (supplied with the system); transport handles.

APPLICATIONS

- Large clubs.
- DJ sets.
- Any kind of live or recorded music reproduction.
- Fills large open-space venues with maximum accuracy.
- Stage monitor at large events (in-fill, monitor for the rhythm section, etc.).
- Recording studios, control rooms.

ACCESSORIES

- Mod. LD2.4 USB interface supplied with Montarbo proprietary software program RAConLS™.
- CV-F10 protective cover for the FULL 10 satellite
- CV-F18 protective cover for the FULL 18 bass cabinet.





SYSTEM'S ARCHITECTURE

FULL 1018 is a 3-way active tri-amplified speaker system, composed of an active bass unit and a passive satellite speaker.

The active bass cabinet is equipped with an 18" woofer featuring a 4" voice coil and a ventilated, shielded neodymium magnet.

The passive satellite speaker system is equipped with a 10" woofer featuring a 3" voice coil and a ventilated, shielded neodymium magnet and an HF driver, with a 1" throat and a 2.5" voice coil, featuring a neodymium magnet and titanium diaphragm, loaded by a wide dispersion (80° H x 60° V) wave-guide horn, made of cast aluminum in order to obtain a 30% reduction of the power compression effect.

The bass cabinet incorporates all the electronics needed to process and power the whole system. It includes 3 class D power amplifiers (with switching-mode power supplies) that may source a total power of 2500 Watts EIAJ (1000 W to the bass cabinet, 1500 W to the satellite speaker system), managed by the Montarbo DSP.

The remarkable acoustic power and sound pressure (133 dB) it can generate make it possible to fill even large, open-space venues with maximum accuracy. The crossover point is 100Hz for the bass cabinet and 1400Hz for the satellite. Operating frequency range of the complete system is 37Hz to 20KHz.

Coverage is 80-degree horizontal x 60-degree vertical.

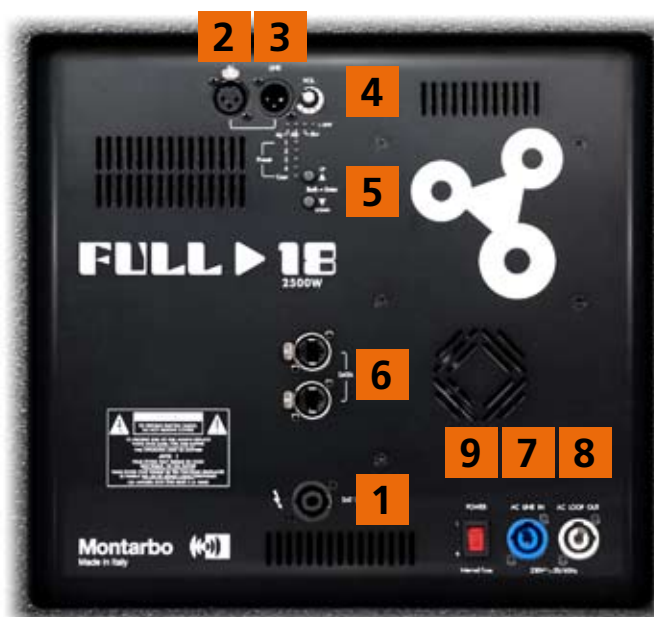
The active bass cabinet controls and connections panel is fitted with:

- SPEAKON® socket for the connection of the FULL10 satellite (1).
- Balanced, line level input (2), that may be fed by balanced or unbalanced sources. Connect it to the mixer output. It is a 3-pin female XLR connector.
- Input link connector (3): it is wired in parallel to the input connector and it makes possible to send the input signal to other equipment (usually to other self-powered speaker systems).
- Master volume control (4) that adjusts the system's volume (of both subwoofer and satellite).
- DSP section (5) includes: 4 status Led indicators; 5 active Preset Led indicators; UP and DOWN pushbuttons which allow for preset selection.
- RJ45 sockets of the two DATA ports (6) for connection to the Montarbo USBNet control network: a Montarbo LD 2.4 USBNet interface and/or another active speaker of the FULL, SPOT and WIDE series.
- Mains supply inlet socket with type A PowerCon® (blue) (7) connector which guarantees a reliable, vibration-proof contact.
- Type B (gray) PowerCon® connector (8) allows to link other devices to the mains power.
- Mains ON/OFF switch (9).

The passive satellite controls and connections panel is fitted with:

- SPEAKON® socket for the connection to the FULL18 bass cabinet (10).

The cabinets of both elements are built from birch plywood and their surfaces have been coated with a special paint providing increased protection and resistance to scratches and abrasion, even with intensive use. They feature steel protection grilles with external foam and ergonomically designed handles, which have been located in the correct, balanced position to ensure convenient handling by a single person. The system is supplied with the dedicated coupling bar mod. SM5. The FULL 10 satellite cabinet is also fitted with 8 threaded studs (M10) for safe and simple suspension.

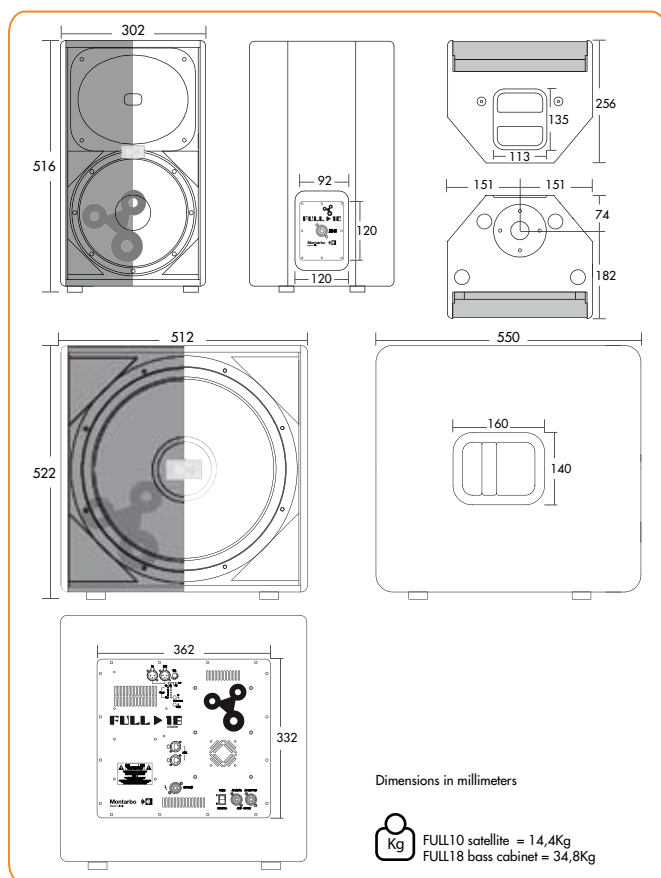
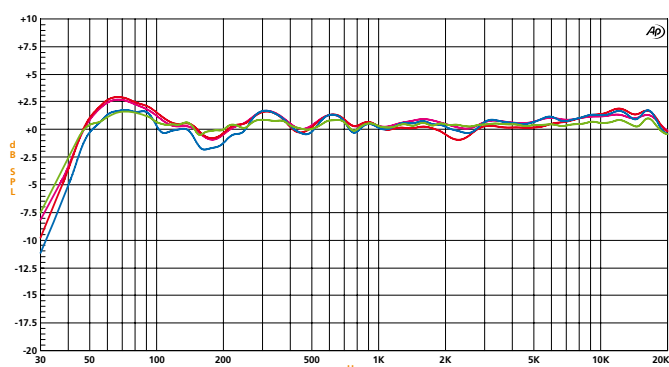


The small size and light weight ensure easy transportation (2 complete FULL 1018 systems may be stowed in the trunk of a medium sized car) and maximum installation potential even where space is at a premium. Dimensions of the FULL 10 satellite are: 302mm wide x 516mm high x 256 mm deep; dimensions of the FULL 18 bass cabinet shall be 512mm wide x 522mm high x 516 mm deep. Weight of each FULL 10 is 14.4 kg. Weight of the FULL 18 bass cabinet is 34.8 kg.





FULL1018 Frequency Response
MAGENTA: PRESET1 - RED: PRESET2 - BLUE: PRESET3 - GREEN: PRESET4



TECHNICAL SPECIFICATIONS

Enclosure	FULL 10: 2-way bass reflex; FULL 18: bass-reflex
Frequency response	37 - 20.000 Hz
Sensitivity	102 dB SPL @ 1W/1m
Max SPL (peak)	FULL 10: 133 dB; FULL 18: 133 dB half-space
Total Power	2500 W EIAJ
• Components	
FULL10	LF 10" woofer (3" voice coil) with shielded ventilated neodymium magnet HF compression driver (1" throat, 2.5" voice coil), with neodymium magnet, titanium diaphragm wide dispersion (80° H x 60° V) wave guide horn
FULL18	18" woofer (4" voice coil) with shielded ventilated neodymium magnet
• Electronic cross-over	
	100 Hz / 1400 Hz
• Built-in amplifiers	
Total Output Power	3 class D power units 2500 W EIAJ
	LF 1000 W MHF 1000 W HF 500 W
Input sensitivity	0 dBu (775mV)
• Built-in DSP	
Processing	Montarbo
Conversion	56 bit/180 MHz
ADC	24 bit
DAC	112 dB
Management function	113dB
	Filtering, EQ, delay, limiting, diagnostic
	5 presets, 1 of which is custom-programmable
	Remote control by PC by means of LD2.4 USB interface (optional device)
• Connections and controls	
FULL 18	4-pole Speakon® connector for the satellite Balanced XLR connectors for the input and link RJ45 DATA connectors for the connection to a PC (Montarbo net) PowerCon® for mains power supply (input + link) Volume control Status Led indicators (signal, clipping, thermal warning protection) Active preset LED indicators
FULL 10	4-pole Speakon® 4 for the bass cabinet

PHYSICAL SPECIFICATIONS

• Construction	Birch plywood, anti-abrasion paint Steel protection grill with foam
• Features	8 threaded studs (M10) for the satellite suspension Speaker stand adapter; transport handles
• Dimensions / Weight	FULL 10: W 302 x H 516 x D 256 mm / 14.4 kg FULL 18: W 512 x H 522 x D 550 mm / 34.8 kg

LD24 USB INTERFACE

This compact, USB-powered interface allows to control and monitor up to 10 systems, using a single USB port of the controlling computer. Data connection is provided by a single RJ45 connector – a single CAT5 cable is run up to 100 m to the first system and further systems are connected in series. The network connection between the LD2.4 and the systems is through a standard RS485FD physical interface using Montarbo's proprietary protocol.



TECHNICAL SPECIFICATIONS

• Dimensions	W 73 x H 45 x D 22 mm
• Interfaces	1 x USB-B 1 x RJ45
• Cable length	100 m (CAT5)
• Maximum network size	10 SPOT, WIDE and FULL speaker system, in any combination.

LD2.4 is supplied with one USB type AB cable and one CD with RACONLS software.

