

FONESTAR

MA-65RGUB, MA-125RGUB

P.A. AMPLIFIER WITH USB/SD/MP3
RECORDER/PLAYER, FM DIGITAL TUNER
AND BLUETOOTH RECEIVER

EN Instruction manual

CE



We take this opportunity to thank you for buying this product.

We recommend you read the instruction manual before switching on the machine and follow the instructions that are given. Keep the manual for future reference.

SECURITY AND THE ENVIRONMENT

ELECTRICAL SECURITY

Check that the current in the mains connection where the machine is to be installed corresponds to the power supply of the machine.

To avoid damaging the equipment, electrical shocks, fire or physical injury when you connect or disconnect the equipment from the power supply, pull the plug firmly out of the mains socket holding the plug, never the cable.

Always do this with dry hands.

Keep the power supply cable far from sources of heat. Do not put heavy objects on top of it or change it.

Clean dust and dirt off the power supply cable regularly.

Do not open the machine; you could get an electric shock.

CAUTION

While installing the machine, make sure it is switched off and unplugged.

Do not open the machine. Touching the internal parts is dangerous and you could receive an electric shock.

The machine must not be splashed or dripped on. Never place recipients with liquid inside on the machine.

Do not place anything inside the machine.

LOCATION

Place the equipment on a horizontal surface with enough space around it to allow ventilation.

Avoid direct sunlight, heat sources and excessive dust.

Do not place the machine near magnetic fields or static electricity.

Do not use surfaces which vibrate or receive impact.

Do not pile machines on top of one another.

VENTILATION

Never block or cover the ventilation slits on the machine.

Do not expose it to direct sunlight or place it near sources of heat.

PERIODS OF INACTIVITY

When the machine is not going to be used for a long period of time, disconnect it from the mains.

If you are using an adapter, take into account that it will continue using electricity even if the machine is switched off. If it is not going to be used for a long period of time, disconnect it from the mains.

THE ENVIRONMENT

To save energy, switch the machine off when you are not going to use it for a long time. The machine could contain substances that are harmful to the environment or human health. To minimize the effect of these substances the machine must be correctly managed and recycled when you decide to dispose of it.

When you dispose of it remember: it cannot be thrown into a conventional rubbish bin.

If it contains or uses batteries, these must be disposed of separately.

The machine (without batteries) must be disposed of correctly. Put it in a container specially intended for the collection of electronic and electrical appliances, at the dump or hand it over to the dealer when you purchase similar equipment, so that the dealer can dispose of it correctly (at no added cost).

SIGNIFICANCE OF THE SYMBOLS ON THE MACHINE*



The symbol formed by the expression “Class 1 laser product” written in a rectangle indicates that visible or invisible laser radiation could be produced. Avoid direct exposure to the laser.



The symbol formed by a ray of lightening inside a triangle shows that the machine has connection terminals or a circuit with areas with a current which could cause an electric shock, even in normal working conditions.



The symbol formed by an exclamation mark in a triangle shows that the instruction manual must be referred to for information on how the machine works and its use.



The symbol formed by one square inside another square shows that the machine has double electrical insulation.



The European Community symbol shows that the machine complies with the current European Union legislation, as well as its transposition to local legislation.



The symbol of a rubbish bin crossed out and over a horizontal line shows that when the product is disposed of it must be done properly, placing it in a special selective electronic and electrical equipment container or through a dealer when purchasing a similar product, at no additional cost. It also shows that the machine was put on the market after 13th August 2005 (European Community Directive 2002/96/CE of Electrical and Electronic recycling, and its Spanish equivalent R.D.208/2005).

In accordance with what is set out in the aforementioned decree, FONESTAR is registered in the RAEE (Registro de Aparatos Eléctricos y Electrónicos) in a special section REI (Registro de establecimientos Industriales), with the entry number 001851.



The symbol RoHS (Restriction of Hazardous Substances) shows that the product has been designed and manufactured restricting the use of certain dangerous material (Directive 2011/65/EU on the restriction of certain dangerous substances in electrical and electronic appliances, and its transferal to the Spanish regulations, R.D. 219/2013).

*It is possible that some of these symbols do not appear on the machine.

EXEMPTION OF LIABILITY

The characteristics of the equipment and the content of the manual can change without forewarning.

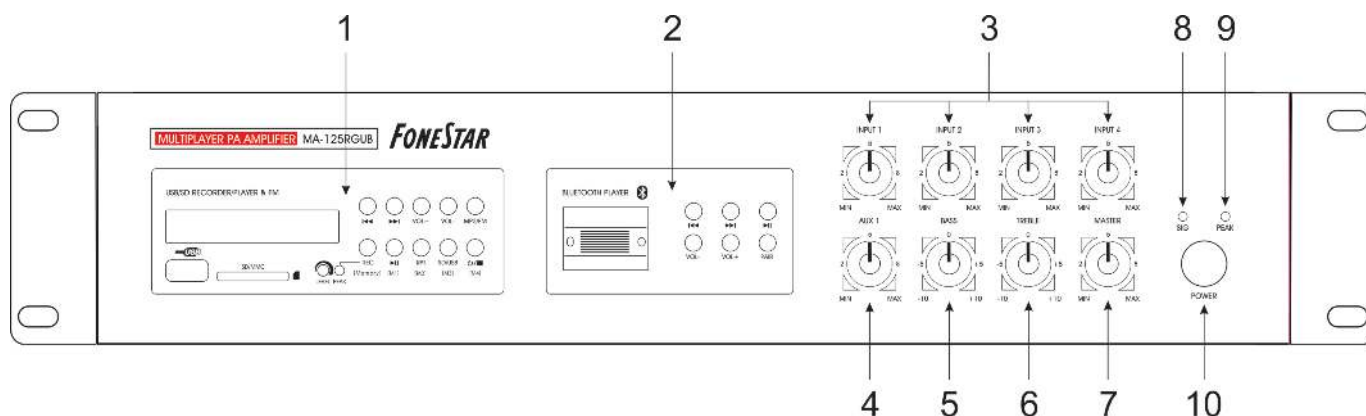
FONESTAR, S.A. does not assume responsibilities regarding the inappropriate use of the equipment or the information supplied in this instruction manual, and specifically disclaims any implied liability for marketability or fitness for any other use.

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DESCRIPTION

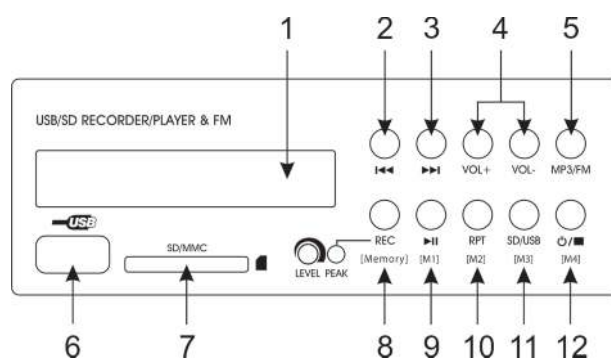
- P.A. Amplifier.
- USB/SD/MP3 recorder/player.
- FM digital tuner.
- Bluetooth receiver incorporated, plays music received from a mobile telephone.
- Phantom power supply.
- Paging priority.

CONTROLS AND FUNCTIONS



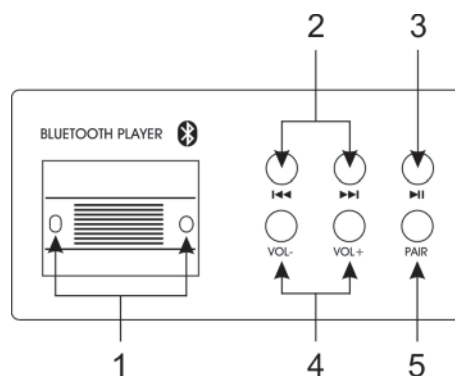
FRONT PANEL

- 1.- **USB/SD/MP3 RECORDER/PLAYER and DIGITAL FM TUNER:** the USB/SD/MP3 recorder/player has an AUTOPLAY function so that, when the amplifier is switched on, it detects if there is a USB or SD storage device connected and will start playing. If both storage devices are connected, priority is for the USB storage device. If the amplifier is turned off with the radio selected, the radio will be activated the next time it is turned on. The reproduction parameters (volume, playback mode, etc.) as well as those for the digital FM tuner (volume, selected FM channel) are memorized when the amplifier is turned off and are maintained for the next time the player is switched on.



- 1.- **Information display:** it shows the type of device connected (USB or SD), as well as the moment in reproduction, the number of the song being played at that moment and the number of the folder it belongs to. If it is connected to the digital FM tuner, it shows the frequency of the FM channel selected. When a file that has been recorded using the REC function is being played, the word FrE will appear on the display
- 2.- **◀◀:** in radio mode, by pressing this button once, you select the previous frequency point, in steps of 0.05 MHz. Holding this button down performs an autoscans to the previous station. In player mode, it jumps to the previous song to what is currently being played.
- 3.- **▶▶:** in radio mode, by pressing this button once, you select the next frequency point, in steps of 0.05 MHz. Holding this button down performs an autoscans to the next station. In player mode, it jumps to the next song to what is currently being played.
- 4.- **VOL +/VOL -:** volume control for the USB/SD/MP3 player and the digital FM tuner.

- 5.- **MP3/FM**: pressing this button alternates between the two available audio sources (USB/SD/MP3 player or radio).
- 6.- **USB**: connection port for USB storage devices.
- 7.- **SD/MMC**: SD card reader.
- 8.- **REC (Memory)**: button for recording from the AUX, INPUT 1-4 inputs and the bluetooth module. Follow the steps below to make the recording:
- Connect a USB device or an SD card and press the REC button to start recording.
 - REC will appear on the display.
 - Press the SD/USB button to select the where the recording is going to be stored: the SD memory card or USB storage device.
 - Select the desired recording level with the REC LEVEL control.
 - Press the REC again. Once REC flashes 3-4 times on the display, recording will start.
 - Press the ■ button to stop recording.
- Note:** the recording will be saved in a file with the name RECORD/LINE IN with consecutive numbers FILE_001.mp3, FILE_002.mp3, etc. If Err appears on the display during the recording, it shows that there has been an error. In this case, press the ■ button to stop recording.
- 9.- **▶||**: to start and stop playback.
- 10.- **RPT**: press this button to select one of the 4 following playback modes:
- Repeat deactivated (nothing appears on the information display).
 - Repeat once (REP 1). to select the repetition of the audio track selected at that moment.
 - Repeat all (REP ALL). to select the repetition of all the audio tracks on the SD card or the USB storage device.
 - Random order (REP). to select random playback of all the audio tracks on the SD card or the USB storage device
- 11.- **SD/USB**: to select the audio source from between an SD card or a USB storage device.
- 12.- **⏻/■**: on/off button for the USB/SD/MP3 recorder/player and for stopping playback. Hold this button down for 3 seconds to switch the module on or off.
- 2.- **BLUETOOTH RECEIVER**: the Bluetooth receiver that is incorporated in the amplifier will let you play and control the playback of music received from a mobile telephone. To do this you will need to previously link the telephone to the bluetooth receiver module.

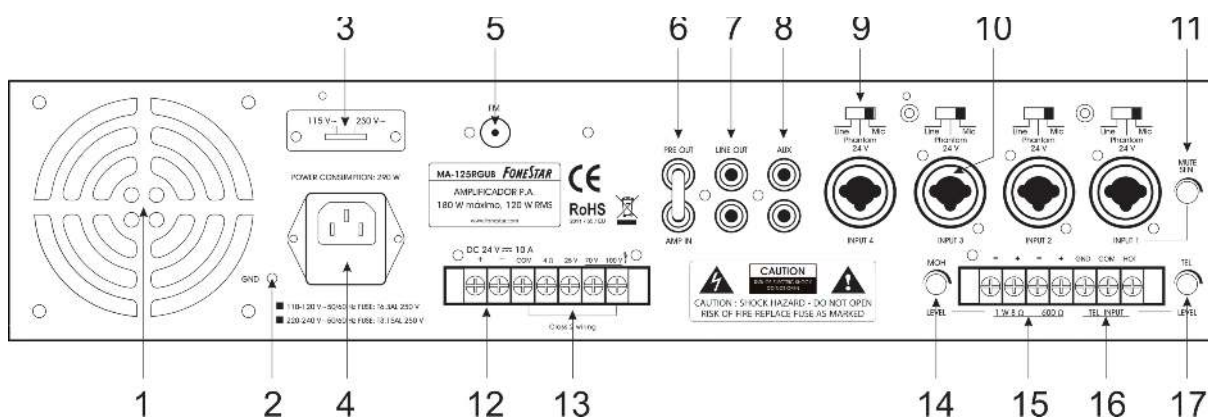


- 1.- LED indicators to show that the mobile telephone is linked to the bluetooth receiver. If no device is linked, the LED indicator on the right will flash in blue. To link the device hold down the PAIR button for a few seconds and the 2 LED indicators will flash alternately. When the mobile telephone has been linked, the LED indicator on the right will stay alight in blue.
- 2.- **◀◀/▶▶**: buttons for moving to the previous/following song in the playback list on the mobile telephone.
- 3.- **▶||**: to start and pause playback of songs from the mobile telephone.

- 4.- **VOL -/VOL +**: volume control for the bluetooth receiver.
- 5.- **PAIR**: hold this button down for a few seconds to link your mobile telephone to the bluetooth receiver module. The LED indicators on the module will flash alternately. With the bluetooth option activated on your mobile telephone, select the BT 2.1 device from the list of bluetooth devices. If you are asked for a password, insert "0000". It will make a noise to confirm it and the LED indicator on the right will stay alight. Now your mobile telephone is linked to your equipment.
- 3.- **INPUT 1-4**: volume controls for INPUTs 1 to 4.
- 4.- **AUX**: volume control for the auxiliary input.
- 5.- **BASS**: to strengthen or weaken the bass frequencies ± 10 dB.
- 6.- **TREBLE**: to strengthen or weaken the treble frequencies ± 10 dB.
- 7.- **MASTER**: control for regulating the MASTER output volume for all inputs.
- 8.- **SIG**: LED indicator for the output signal level. It lights up in green when it receives a signal in any of its inputs.
- 9.- **PEAK**: LED indicator for the saturation level. It lights up in red when there is an excess signal in some of the inputs. It regulates the MASTER volume or what comes from the rest of the inputs that this indicator does not light up for.
- 10.- **POWER**: amplifier on/off switch.

BACK PANEL

- 1.- **Ventilation grille**: for ventilating the final power step.
- 2.- **GND**: screw for earth, for use if the mains does not already have it incorporated.
- 3.- **115 V/230 V**: power voltage selector.



- 4.- **AC socket**: for connecting the AC power cable.
- 5.- **FM**: aerial input for the digital FM tuner.
- 6.- **AMP IN/PRE OUT**: the connection bridge between the 2 RCA connectors communicates the output signal from the PRE OUT output to the AMP IN input.
- 7.- **LINE OUT**: auxiliary line output. Output signal for recording, mixer, power amp, etc., 2 x RCA connectors.
- 8.- **AUX**: auxiliary input. Signal source input, for connecting through audio source RCA connectors.
- 9.- **LINE/PHANTOM 24 V/MIC**: input and 24 V phantom sensitivity switches. These switches have three positions.
LINE: in this position, line level audio sources can be connected to inputs 1 to 4: audio players, etc.
MIC: in this position, low impedance 30-600 Ω dynamic microphones can be connected to inputs 1 to 4.
PHANTOM 24 V: in this position, electret condenser microphones that need 24 V power can be connected to inputs 1 to 4.
- 10.- **INPUT 1-4**: microphone/line inputs that use a combo connector (XLR and 6.3 mm stereo jack), accepting balanced and unbalanced 30-600 Ω microphone signals and balanced electret condenser

microphones that need 24 V phantom power, present in pins 2 and 3 of the XLR connector. Balanced or unbalanced line level signals from mixers, audio players, etc. are accepted.

Select the appropriate position using the switch, making sure that the volume controls have been moved to minimum to avoid noises.

The microphone 1 input has priority function that deletes all the other inputs to give priority to paging, emergencies, etc. The amplifier is supplied with priority deactivated. To activate this function you must turn the MUTE/SEN control on the back panel clockwise, until it reaches its maximum (maximum priority).

CAUTION: when connecting or disconnecting an unbalanced microphone, the switch must be in the MIC position. If the switch is in the PHANTOM 24 V position, the microphones could be damaged due to the voltage in pins 2 and 3 of the XLR connector.

- 11.- **MUTE SEN:** control for activating/deactivating priority in INPUT 1 and TEL inputs. Turn the control wheel clockwise to its maximum and the rest of the inputs will be automatically weakened when a signal is detected in the INPUT 1 or TEL inputs. Turn it anticlockwise and the priority function will go back to its minimum level.

Note: the amplifier is supplied with priority deactivated. To activate this function you must turn the MUTE SEN control wheel clockwise, up to its maximum (maximum priority).

- 12.- **DC 24 V:** 24 V DC power supply terminals. For the amplifier to work with 24 V DC power, batteries, emergency power supply systems, etc. Make the connection with 2.5 mm² section cable to the - negative and + positive terminals.
- 13.- Output for loudspeakers. For connecting the loudspeakers in 4 Ω low impedance and 100/70/25 V high impedance lines. Connect the loudspeaker line between the COM terminal and the impedance or line in desired V.
- 14.- **MOH LEVEL:** volume control for the monitor output. By turning the control clockwise, the volume is raised and in the other direction, lowered.
- 15.- Output terminals for 1 W 8 Ω - 600 Ω auxiliary loudspeaker (Monitor). For connecting an external loudspeaker as monitor. It has an internal 1 W amplifier. It only monitors the AUX input, controlled by the the AUX volume. It has an adjustable level using the MOH LEVEL control on the back panel.
- 16.- **TEL INPUT:** telephone input terminals. For connecting to telephone switchboard to give announcements from the switchboard with priority over the rest of the inputs. See the characteristics of the switchboard to adjust the input level of the amplifier. The signal level can be adjusted using the TEL LEVEL control on the back panel.
- 17.- **TEL LEVEL:** TEL INPUT volume control. For adjusting the telephone switchboard volume that is connected to the TEL INPUT terminals. By turning the control clockwise, the volume is raised and in the other direction it is lowered.

INSTRUCTIONS FOR USE

DIGITAL FM TUNER

This model lets you tune in digitally to FM radio frequencies.

To select the FM radio tuner as an audio source, press the MP3/FM button choosing the FM option.

The radio stations are tuned using buttons **◀** and **▶** on the front panel. By pressing one of these buttons, you automatically tune into the previous/following frequency. By holding them down, you automatically tune into the previous/following digital FM station.

MEMORISING THE FM RADIO STATIONS

Select the desired frequency using buttons **◀** and **▶** on the front panel until you find the chosen station. Press the MEMORY button for a few seconds and then one of the M1 to M4 buttons to save the selected station in this memory position.

SELECTION OF A MEMORISED STATION

Press one of the M1 to M4 buttons, using the activated digital FM tuner, to choose one of the memorised stations.

USB/SD/MP3 RECORDER/PLAYER

This model lets you play MP3 files contained in a USB storage device or on an SD memory card.

To select the USB/SD/MP3 recorder/player as an audio source, press the MP3/FM button choosing the MP3 option. At the same time, press the SD/USB button to select between the USB storage device or the SD memory card, because when both are connected priority is automatically for the USB device.

If you select the USB/SD/MP3 player, the number of the song and the file it is kept in is shown alternately on the display, followed by playback time.

All the playback functions (reproduction, pause, volume, etc.) are available using the controls on the front panel.

BLUETOOTH RECEIVER

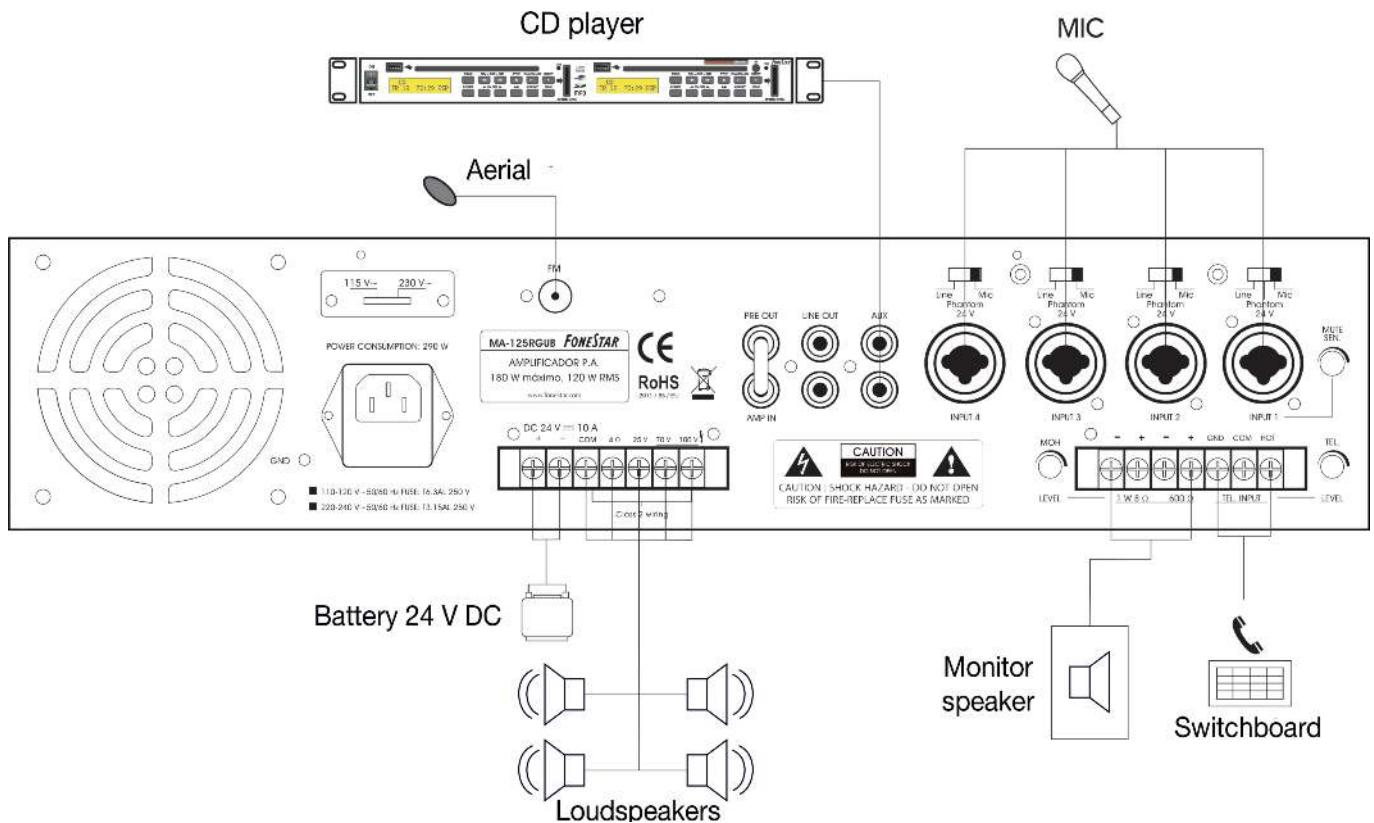
This model lets you reproduce MP3 files contained in a mobile telephone if the device is linked to the bluetooth receiver module on this amplifier.

To link your mobile telephone to the bluetooth receiver, press the PAIR button for a few seconds. the LED indicators on the module will flash alternately. With the bluetooth option activated on your mobile telephone, select the BT 2.1 device from the list of bluetooth devices. If it were to ask for a password, insert "0000". A confirmation signal will be heard and the LED indicator on the right will light up. At this moment, your mobile telephone will be linked to the equipment.

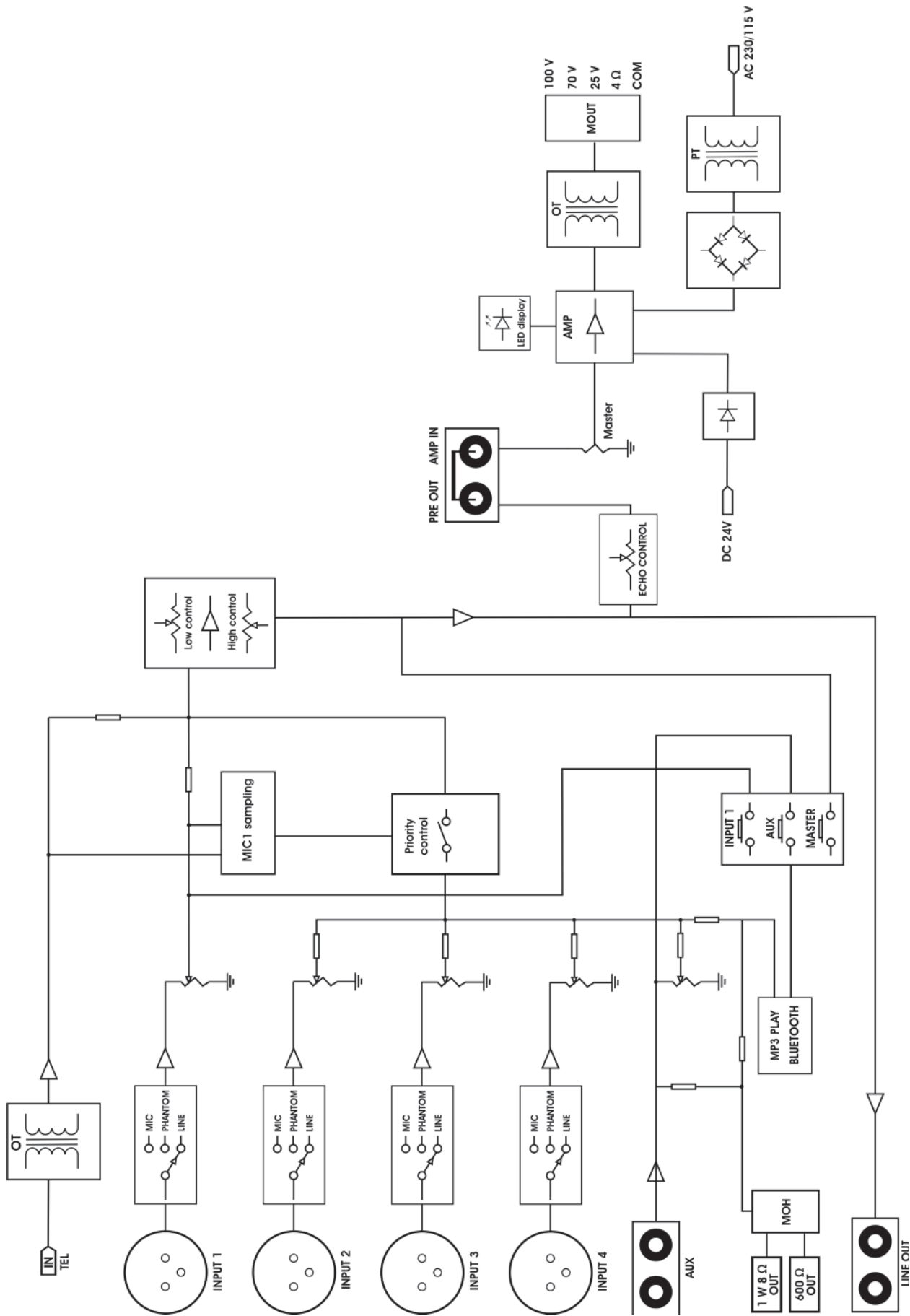
All playback options (reproduction, pause, volume, etc.) are available using the controls on the front panel.

CONNECTION

- Make the connections with the amplifier and all the audio system components switched off and disconnected from the power supply.
- Connect the USB storage device and/or SD memory card in the corresponding inputs on the front panel.
- If you wish, connect the microphones to the connectors for them on the back panel.
- Firstly, connect the audio sources to the inputs. Connect the loudspeakers to the loudspeaker output. Use the low impedance 4 Ω output or the high impedance 100, 70 or 25 V line output, depending on the type of loudspeakers that you are going to connect. Do not use the two types of output at the same time.
- If you use the low impedance output, you must connect the speakers in a series/parallel circuit so that the speaker load impedance is the same as the amplifier output impedance and the power supplied by the amplifier does not exceed what is withstood by the speakers.
- If you use the high impedance 100 V, 70 or 25 V line output, the speakers must all be connected in parallel and the sum of the power of all the speakers must not exceed the power supplied by the amplifier.
- Once the connections have been made according to your needs, connect the equipment to the mains and switch them on. After use, do not forget to switch them off and disconnect them from the mains.



BLOCK DIAGRAM



SPECIFICATIONS

	MA-65RGUB	MA-125RGUB
CHARACTERISTICS	P.A. Amplifier. USB/SD/MP3 recorder/player. Digital FM tuner. Bluetooth receiver incorporated, plays the music received from a mobile telephone. Phantom power supply. Priority paging.	
POWER	90 W maximum, 60 W RMS	180 W maximum, 120 W RMS
RESPONSE	80-16 000 Hz ± 3 dB	
DISTORTION	Harmonic: $< 1\%$	
INPUTS	4 balanced mics./lines, combo (XLR and 6.3 mm jack) 600 Ω 2 mV and 47 000 Ω 150 mV, switchable 1 auxiliary, 2 x RCA 47 000 Ω 300 mV 1 amp in, RCA 10 000 Ω 1 V 1 tel. input, screw terminals 600 Ω 100 mV	
OUTPUTS	1 line out, 2 x RCA 47 000 Ω 1 V 1 pre out, RCA 600 Ω 1 V 1 monitor, screw terminals 600 Ω , 775 mV and 1 W 8 Ω (aux input)	
CONTROLS	Tone: Bass: ± 10 dB Treble: ± 10 dB Volume: inputs 1 to 4, aux., general volume, USB/SD/MP3 player and bluetooth receiver	
TUNER	Digital FM with pre-tuned channels and auto scan	
PHANTOM	24 V in mics. 1 to 4, selectable	
PRIORITY	Tel. input and mic. 1 through signal level, selectable	
IMPEDANCE	4 Ω and 100, 70 and 25 V lines, screw terminals	
POWER SUPPLY	230/115 V AC, 130 W and 24 V DC, 82W	230/115 V AC, 290 W and 24 V DC, 161 W
DIMENSIONS	420 x 89 x 300 mm depth. 2 U 19" rack	
ACCESSORIES	Mounts for assembly in a 19" rack	

DECLARATION OF CONFORMITY

FONESTAR SISTEMAS S.A.

Polígono de Trascueto s/n
39600 Revilla de Camargo, Cantabria (Spain)

Declares, under its responsibility, that the following equipment:

Description: Amplifiers with USB/SD/MP3 recorder/player, digital FM tuner
and bluetooth receiver

Brand: FONESTAR

Models: MA-65RGUB, MA-125RGUB

complies with the European Community directives 2004/108/CE on Electromagnetic Compatibility
and 2006/95/CE on Low Voltage.

Santander, 28th June 2013



Juan Vallejo

Technical Engineer, Sales Department

WARRANTY

This product has been tested and has passed the corresponding quality control prior to being put on the market.

FONESTAR guarantees the suitability of the product for its specified use during a period of 2 years from the delivery date and commits itself to repair or substitute the goods as expressed in the Spanish law 'La Ley General para la Defensa de los Consumidores y Usuarios, Real Decreto Legislativo 1/2007 16 Noviembre.

The lack of conformity in the first six months after purchase, due to a manufacturing defect, will be rectified with no more than showing the proof of purchase. After six months **FONESTAR** reserves the right to demand proof of the product being sold with that problem.

This warranty does not include damage produced by: inappropriate use or negligence, accidents, worn out parts due to use, breakages, burns, spilt liquids or other substances, excessive humidity, battery deterioration and internal manipulation of the device, the software or its components by unauthorized persons, and in general any use that is unrelated to the nature and purpose of the product.

If any service is needed during the warranty period because of lack of conformity, please contact the business or distributor where the product was purchased in no more than 2 months after being conscious of the problem. It is only necessary to contact **FONESTAR** if it is impossible or imposes an undue burden for them to solve it.

To benefit from this warranty it is necessary to show the proof of purchase with the date clearly visible, with no corrections or crossing out.

This document adds information, and never decreases the consumers' rights, which in all cases are protected by the Spanish law 'La Ley General para la Defensa de los Consumidores y Usuarios, Real Decreto Legislativo 1/2007 16 Noviembre.



FONESTAR is a member of ECOEMBALAJES ESPAÑA, S.A. "ECOEMBES", with number 03497 and all our products carry the symbol, backed by our membership and subscription to the above mentioned organization with the recycling and subsequent management of our packaging.

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