



FULGOR SERVICE
SISTEMI DI AMPLIFICAZIONE

WIRELESS SYSTEM

R 100 – R200
L100 – P100

USER AND INSTALLATION GUIDE

USE PRECAUTIONS



WARNING: To reduce the risk of electric shock, do not remove the cover (or rear panel). Inside, there are no parts that can be repaired by the user; Entrust the repair to qualified personnel.

CAUTION: To reduce the risk of fire or electric shock, do not expose this unit to rain or moisture.



This symbol, when displayed, indicates the presence of a non-insulated hazardous voltage inside the body of the device - sufficient voltage to pose a risk of electric shock.



This symbol, when displayed, indicates important operating and maintenance instructions in the enclosed text. Read the manual.

RECOMMENDATIONS:

All safety and operating instructions must be read before operating the appliance.

Keep the instructions:

Safety and operating instructions must be kept for future reference. This manual is an integral part of the product and must accompany it in case of any change of ownership. This will allow the new owner to know the instructions for installation, operation and safety.

Pay attention:

All warnings on the appliance and operating instructions must be followed accurately. Observe all warnings.

Follow the instructions:

All operating and user instructions must be followed.

Notes preceded by the symbol  contain important safety information: Read them carefully.

DETAILED SAFETY INSTRUCTIONS.

Water and humidity:

The appliance should not be used close to water (eg near baths, kitchen sinks, near pools, etc.).

Ventilation:

The appliance must be placed in such a way that its location does not interfere with the proper ventilation. For example, the appliance should not be placed on a bed, sofa cover, or similar surfaces that can block the ventilation openings or placed in a recessed installation such as a bookcase or cabinet that can prevent the flow of air, Air through the ventilation openings.

Heat:

The appliance must be located away from heat sources such as radiators, thermostats, clothes dryers, or other appliances that produce heat.

Power supply:

- The appliance must only be connected to the type of power described in the operating instructions or on the appliance.
- If the supplied plug does not match the socket, contact an electrician to install an appropriate socket.



Grounding or polarization:

- Precautions should be taken to ensure that grounding and polarization of the device are not affected.
- The metal parts of the equipment are connected to ground via the power cord.
- If the power socket does not have a ground connection, contact a qualified electrician to connect the grounding device through the terminal.
- For plastic equipment, periodically check the condition of the power supply.

Power Cord Protection:

The power supply cord must be installed so that it is not to be trampled or pinched by objects placed on or against, paying particular attention to wires and plugs that are wall-mounted.

Cleaning:

- When the unit is to be cleaned, dust can be removed using a compressed air jet or damp cloth.
- Do not clean the unit using solvents such as triethylene, paint thinners, fluids, alcohol, high volatility fluids or other flammable liquids.

Non-use Periods:

The power cord of the appliance must be disconnected from the socket if it is not used for a long time.

Intake of liquids or objects:

Care should be taken to avoid dropping objects and not leaking liquids into the body of the appliance through the grilles.

Safe use of the power line:

- When disconnecting the appliance, hold the plug and the socket securely.
- When the unit is not used for a prolonged period, stop power by pulling the plug out of the power outlet
- To avoid damaging the power supply line, do not pull the power cord and do not use a twisted cable.
- To avoid damaging the power cord of the apparatus, make sure that it is not being trodden or crushed by heavy objects.

Moving the unit:

Before each shift, make sure the drive is off. The power cord must be removed from the socket as well as the unit's connections with other lines.

Do not disassemble the unit:

Do not attempt to disassemble or repair the unit yourself. For any problem that cannot be resolved with the help of this manual, contact a qualified technician or contact our company www.fulgorservice.it

Malfunctions:

For any malfunctions contact our company (www.fulgorservice.it).

IMPORTANT SAFETY RULES:

- Install by following the instructions.
- Never open the equipment: inside there are no user-serviceable parts.
- If you notice a strange smell coming from the appliance, turn it off immediately and disconnect the power cord.
- Do not obstruct the ventilation grilles of the appliance.
- Avoid working overloading the unit for extended periods of time.
- Do not force commands (buttons, controls, etc.)
- For safety reasons, do not unscrew the plug-in connection. The ground connection is necessary to safeguard operator safety
- Use only the connectors and accessories specified by the manufacturer.
- The equipment must be kept away from:
 - Damp places
 - Direct exposure to heat sources (such as sunlight).
 - Unsuitable ventilation



- In the presence of lightning storms or when the apparatus is not in use, unplug the power plug from the socket.
- To prevent the risk of fire and electric shock, keep the equipment away from splashes and drops. Above the apparatus should not be placed vases or other objects containing liquids.
- FULGOR SERVICE s.n.c. Disclaims any liability for incorrect installation of the unit.

GUARANTEES AND RETURN:

The product is equipped with a guarantee of operation and compliance with its specifications, as stated by the manufacturer. The warranty is 24 months from the date of purchase. Faults detected within the warranty period, attributable to defective materials or construction defects, must be promptly reported to your dealer or distributor, enclosing the purchase date documentation and the description of the defect type found. Failures caused by improper use or tampering are excluded from the warranty. Fulgor Service s.n.c. Establishes by means of return verification the declared defect, related to proper use, and the effective validity of the guarantee; It then provides for the replacement or repair of the products, but does not however oblige any compensation for direct or indirect damages resulting from the defect.





STANDARD EQUIPMENT

- Receiver
- Transmitter(s)
- Power supply
- Specific antennas
- Power cord
- XLRM/XLRF cable
- Rack mounting brackets + screws
- Plate to join two receivers
- AA battery
- Rubber feet
- Coloured ties
- Selection stick

CAUTION!!!

All R100-R200 that have the abbreviation PRE in the Serial Number are provided with a pair of antenna amplifier (booster) with an average gain of 8dB each, but ONLY ON THE FRONT TNC CONNECTOR; the rear TNC connectors, instead, are without amplifier (directly connected to the receiver): on the latter it is possible to connect an external booster (as on previous models) and, of course, the phantom power is also active.

This means that IT IS NOT POSSIBLE TO CONNECT AN EXTERNAL BOOSTER ON THE FRONT TNC CONNECTORS as they are already amplified.

Summarizing the possible configurations are:

- Rear Antennas Only = gain 0dB (each channel)
- Rear Antennas Only + external Boosters = gain 10dB (each channel with booster)
- Front Antennas Only = gain 8dB (each channel)

It is possible to add a pair of antenna-booster to get an high sensitivity configuration:

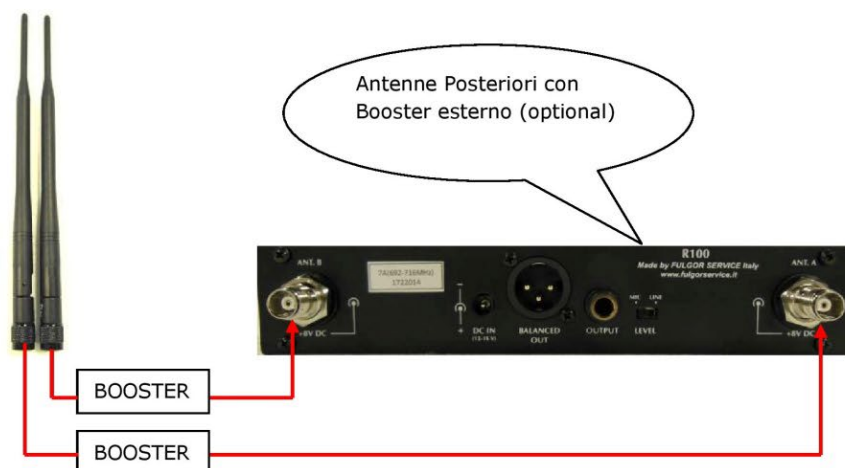
- Rear Antennas + external Boosters (10dB) + Front Antennas (8dB)

With the latter configuration it is possible (by bringing the rear antennas to strategic points) to cover a large area while keeping a constant reception.

For installation we suggest to test the system ONLY with REAR antennas (without Booster), looking for the freest channel and frequency for that area; if it is necessary to increase the operating distance (range) – and the channel and the frequency are "clean" – then the front connectors can be used.

NOTE: The standard equipment is only two antennas, the second pair of antennas and the booster are purchasable optional.





MAIN FEATURES AND PERFORMANCE

- Single and double ½ U standard rack receiver module
- Diversity technology for optimal reception
- Channels with 24MHz space
- Up to 8 compatible preset channels in each band
- One-touch auto scan for a clean interference-free reception frequency
- "SYNC" patent which allows a simple and quick synchronization between the receiver and the transmitter via IR
- Multifunction backlit LCD display with a clear visibility and RF/Audio/Transmitter battery level/squelch display, A/B diversity and lock indicators. Group, channel and frequency indicators
- Programmable functions for Group, Channel, Frequency, Squelch and Lock
- Automatic brightness display while executing and on stand-by
- "Pilotone and NoiseLock" circuits minimize the interferences
- All the parameters are visible in a single display for a quick control and monitoring
- The receiver control panel can be locked to prevent accidental setting changes
- Predisposition for antennas installation either on front panel or rear panel
- Phantom power for RF booster
- Audio output with balanced XLR and unbalanced jacks

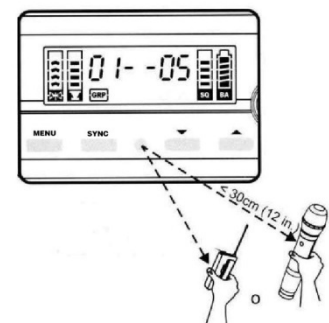
FUNCTIONALITY AND MANAGEMENT OF "SYNC"

SYNC is an innovative infrared technology to automatically synchronize the frequency selected on the receiver with a handheld or body pack transmitter (from the same band). The introduction of SYNC offers the advantage of a simple, quick and precise setting eliminating the double adjustment (both on the transmitter and the receiver). Once the desired frequency is selected, the data is stored and will remain the same, even after switching off, until a new SYNC is implemented.

NOTE: *in case of replacement of transmitter or receiver, even if the group and the channel are the same, synchronize (see the procedure on page 6, 11 and 12).*

HOW DOES IT WORK

- Select a channel on the receiver and make sure the transmitter is turned on and the batteries are charged.
- Press the SYNC button on the receiver to activate the synchronization function: group/channel and frequency indicator flash.
- Keep the transmitter in front of infrared port at a maximum distance of 30cm. The infrared port is located between the SYNC button and the "▼" button. The frequency will be automatically synchronized.
- When the frequency synchronization between receiver and transmitter is successful, the RF frequency display RF stops flashing.



R100 and R200



1

2

- 1 LCD Display
- 2 ON/OFF Switch



1

2



3

4

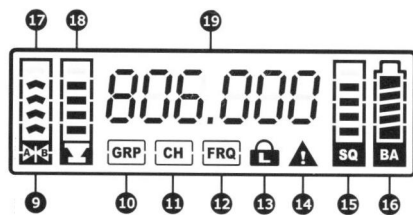
5

6

7

- 3 MENU: Group, channel, frequency, squelch and lock setting
- 4 SYNC: Frequency synchronization between receiver and transmitter
- 5 IR: Infrared port
- 6 ▼: Values decrease
- 7 ▲: Values increase

RECEIVER INTERFACE

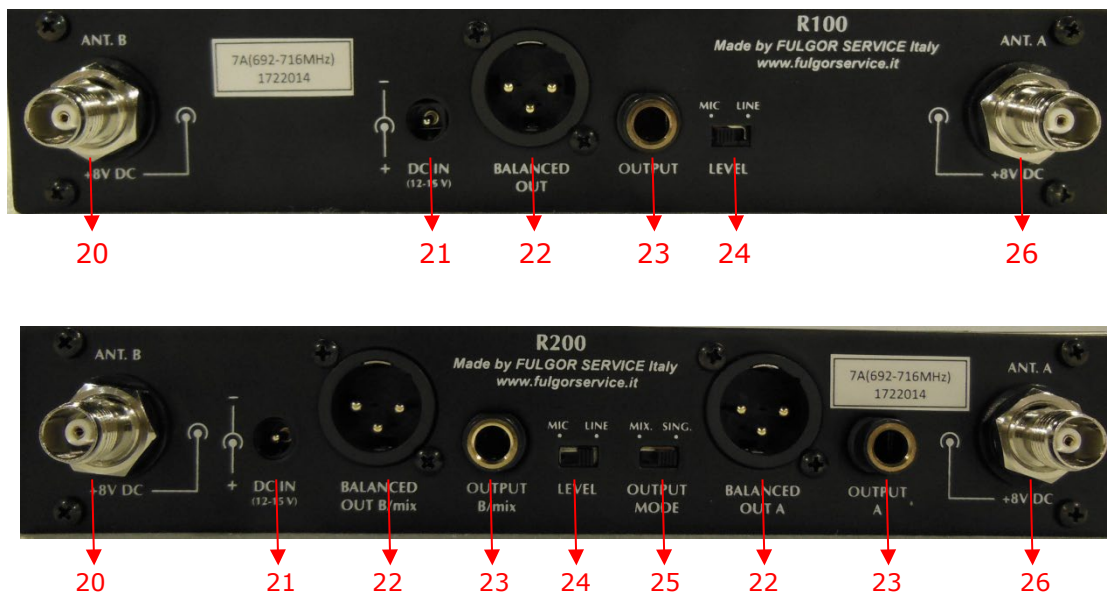


- 9 A/B: A/B antenna reception indicatori
- 10 GRP: Group indicatori
- 11 CH: Channel indicator
- 12 FRQ: Frequency indicator
- 13 L: Lock indicator: when activated the word "locked" appears
- 14 ⚠: Interferences warning indicator: it lights up when there's an interference (or transmitter muting)
- 15 SQ: Sensitivity level indicator (squelch)
- 16 BA: Transmitter battery level indicator
- 17 RF: Transmitter RF signal indicator
- 18 📶: Transmitter audio signal indicator
- 19: Group/Channel and Frequency display



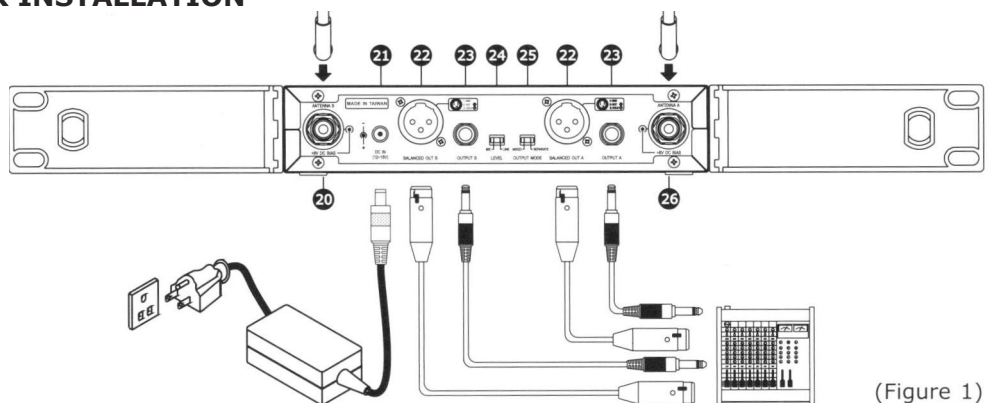
INDICATORS AND RECEIVER CONTROLS

Rear panel



- 20 Input connector B for rear antenna: antenna "B" can be installed directly in this connector, which can also power an antenna preamplifier (booster).
- 21 DC input: input for jack connector from +12VDC to +15VDC
- 22 Balanced audio output: XLR connector provides a balanced audio output for the mixer.
- 23 Unbalanced audio output: 6.3mm jack connector provides an unbalanced audio output for the mixer. Selectable as MIC or LINE.
- 24 Unbalanced output switch: you can select MIC for the microphone output level (0dB) or LINE for the line output.
- 25 Output mode switch: in MIX mode the audio output from both channels will be mixed by balanced output B (22) and the unbalanced output B (23); in SING. mode (available only in the double wireless microphone) each channel has a separate output.
- 26 Input connector for rear antenna A: antenna "A" can be directly installed in this connector, which can also power an antenna preamplifier (booster).

RECEVEIR INSTALLATION



(Figure 1)

- Install the two antenna in the appropriate connectors (20) and (26) on the rear panel or on the front panel.
- LINE is used to connect a mixer with an unbalanced input. If you connect a mixer by an unbalanced input and microphone sensitivity, place the LEVEL switch on LINE position.
- Connect the power supply to DC input DC (21) on one side and to the mains socket on the other.
- The antenna inputs are designed for a 8VDC phantom power and to work with dedicated antennas. **If the cable is longer than 10 meters, it is advisable to install an antenna amplifier (booster) to ensure excellent reception.**

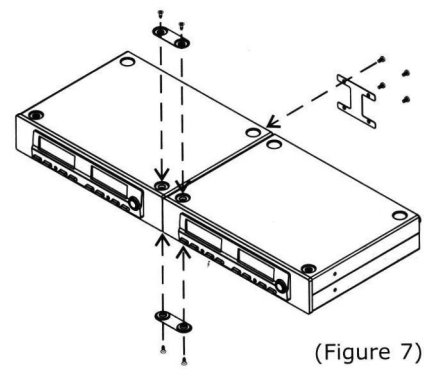
OPERATIONAL SUGGESTIONS FOR THE RECEIVER

- Before turning on the receiver, make sure all the transmitters are turned off and the mixer volume is at minimum.
- Normally, the RF level indicator lights up when the transmitter is turned on to indicate that the receiver is ready for operating. When the transmitter receives the audio signal, the AF level indicator increases according the signal strength. If the RF level is 0 or there is any audio signal, the system cannot be set correctly. Recheck that the transmitter is turned on and that the transmitter and the receiver are on the same frequency (if not, the transmitter must be reprogrammed with SYNC function).
- The microphone output level must be adjusted by the amplifier or by the mixer. There is no need to adjust the output levels from the receiver itself.
- Antenna distributor sans receivers must have the same frequency band.

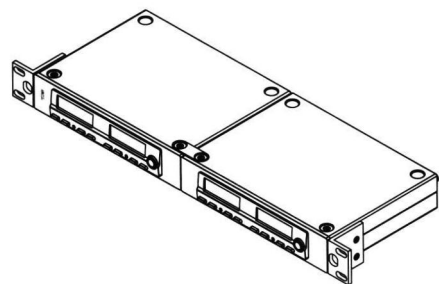
RECEIVER RACK ASSEMBLY

The wireless microphone is supplied with the installation mounting kit for ½ U or 1U standard rack.

To install a single R100 or R200 use the supplied brackets (one long and one short) by screwing them sideways; to install, instead, two receivers use the short brackets by screwing them sideways and the joining plate to join the two receivers.



(Figure 7)



(Figure 8)

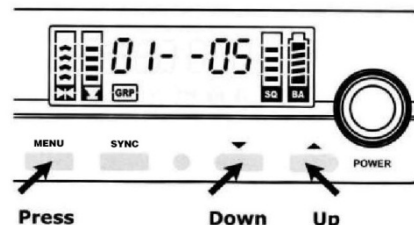
DISPLAY AND PARAMETERS



GRP = Group CH = Channel FRQ = Frequency SQ = Squelch L = Lock Δ = Problem

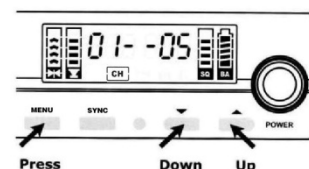
GROUP SETTING (GRP)

1. Press and release the MENU button until the GRP cursor and group number start flashing.
2. While flashing press ▼▲ to select one of the 11 preset groups.
3. Press the MENU button to confirm your choice.
4. The GRP mode is deactivated if ▼▲ are not pressed within 5 seconds and the display brightness dims if a key is not pressed within 10 seconds.



CHANNEL SETTING (CH) AND AUTOSCAN

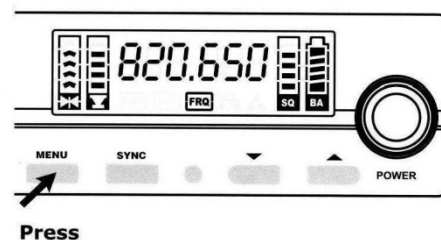
1. Press and release the MENU button many times until the CH cursor and the number start flashing.
2. While flashing press ▼▲ to search for a free channel. Thanks to AUTOSCAN function, if the selected channel is occupied, this will be ignored and will automatically go to the next free channel.
3. Press the MENU button to confirm your choice.
4. The CH mode is deactivated if ▼▲ are not pressed within 5 seconds and the display brightness dims, if a key is not pressed within 10 seconds.



USER DEFINED FREQUENCIES SET (FRQ)

It is possible to define 8 new frequencies and save them in the Group 11 in the channels from 1 to 8.

1. Press and release the MENU button many times until the GRP cursor and the group number start flashing.
2. While flashing, press and release the ▼▲ buttons until group 11 is selected.
3. Press the MENU button many times until CH cursor and the channel number start flashing.
4. Press the buttons ▼▲ to select the desired channel.
5. Press the MENU button until you stop on FRQ indicator.
6. Press again MENU until the first 3 digits of the frequency start flashing, indicating the possibility of changing the parameters.
7. While flashing, press and release the buttons ▼▲ decreasing or increasing the value of 1MHz per click.
8. Press MENU to confirm your choice. Once the change is saved, the last 3 digits of the frequency start flashing.
9. While flashing, press and release the ▼▲ buttons decreasing or increasing the value of 25KHz per click.
10. Press MENU to confirm your choice.
11. The FRQ mode is deactivated if the ▼▲ buttons are not pressed within 5 seconds and the display lighting dims within 10 seconds.

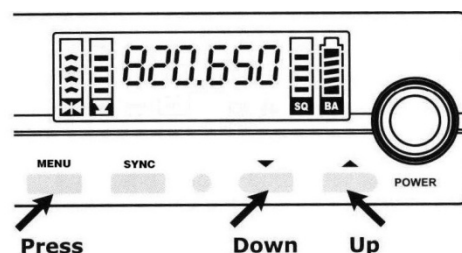


NOTE:

The 8 frequency saved in Group 11 may not be compatible and free from interferences, therefore it is recommended not to use them simultaneously in the same place.

SQUELCH SET (SQ)

1. Press and release the MENU buttons until the FRQ cursor and the group number start flashing, meaning that the parameters can be changed.
2. While flashing press and release the ▼▲ buttons to decrease or increase the squelch level.
3. Press the MENU button to confirm your choice.
4. The SQ mode is deactivated if the ▼▲ buttons are not pressed within 5 seconds and the display brightness dims, if a key is not pressed within 10 seconds.

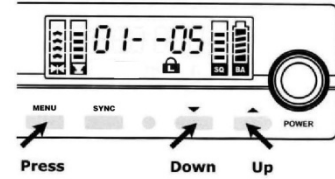


WARNING

- A SQ **low level** gives an higher sensitivity in a maximized and **longer reception** range.
- A SQ **high level** gives a lower sensivity in a limited and **shorter reception** range.

LOCK SETTING (L)

1. The lock function is used to lock and prevent accidental change of the settings.
2. To activate the lock, press and hold the MENU key until the lock icon appears.
3. To deactivate the lock, press and hold for about 3 seconds the MENU key until the lock icon disappears.

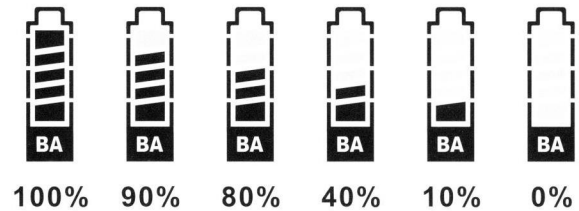


The receiver display automatically dims if there is no signal or if the MENU and/or SYNC keys are not pressed within 5 seconds.

By holding the ▲ key for about 2 seconds the display will remain lit continuously; to deactivate the continuous lighting function, keep ▲ the button pressed for about 2 seconds.

BATTERY INDICATOR (BA)

- The battery indicator lights up when the transmitter is turned on and shows the percentage of charge remaining. Replace with new batteries when the percentage of charge reaches 10%.
- The BA cursor starts flashing when the transmitter is turned on and receives a signal. After 3~5 seconds, the cursor will stop flashing and the percentage level of charge will appear on the display.



THE HANDHELD MICROPHONE P100



1. Display
2. Batteries level indicator:
 - Batteries charged: the red indicator remains lit for 1 second and then goes off (the battery icon is full)
 - Weak batteries: the red indicator remains lit continuously, even after being switched on. Recharge or replace the batteries
 - Low batteries: the red indicator remains off or check if the batteries have been inserted with the reversed polarities
3. ON/OFF switch
4. Switch lock: turn on the microphone and then move the locking lever to the right in order to avoid accidentally turning off the microphone during use.
5. Batteries compartment: the microphone requires 2 AA alkaline batteries.
6. On the back there is the SYNC infrared port to receive the signal from the receiver when the frequencies are synchronized.

DISPLAY



ERR

When an operational error occurs, the word "ERR" appears on the display. Here below the codes for diagnosing:

- ERR no01: EEPROM has not been programmed or has an internal error.
- ERR no02: only for test



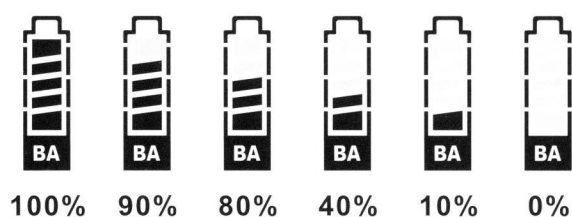
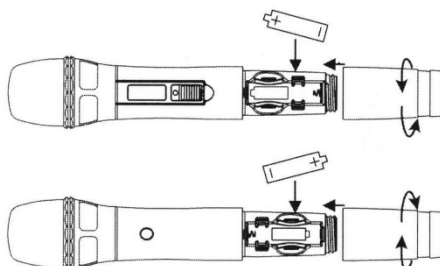
- ERR no03: the frequency you are programming is greater than the transmitter bandwidth. Use a receiver with an appropriated frequency group. (At this point the microphone is still operational and the frequency doesn't change. To delete the error message, turn the transmitter off and on.)
- ERR no04: the frequency you are programming is lower than the transmitter bandwidth. Use a receiver with an appropriated frequency group. (At this point the microphone is still operational and the frequency doesn't change. To delete the error message, turn the transmitter off and on again.)

GROUP and CHANNEL

They indicate the group and the channel and, when they both appear simultaneously it means that you are using the frequency pre-programmed on the. If only the channel number appears, it means that you aren't using the frequency pre-programmed on the receiver.

BATTERIES

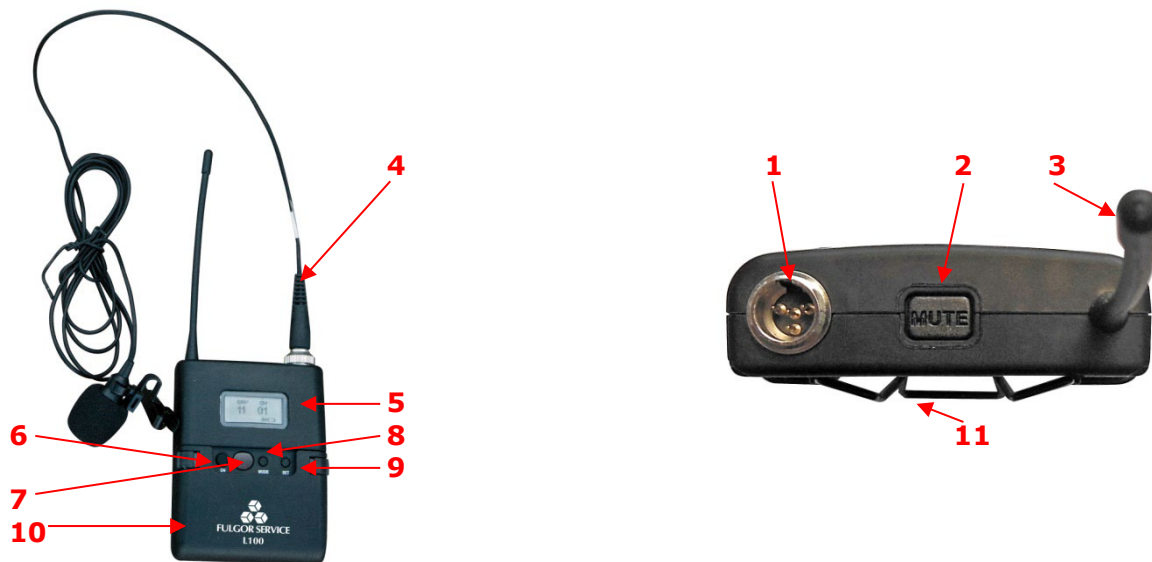
- To replace or insert the batteries turn the bottom of the microphone counterclockwise.
- Remove the low batteries, if any.
- Insert two new AA alkaline batteries checking that the polarities are in the right direction.



The batteries level indicator is on the right side of the display. When the batteries have less than 10% charge, they must be replaced; if you continue to use the microphone, the word "POFF" will appear on the display and the system will turn off to avoid over-discharging the batteries.

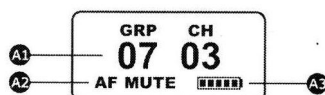
If not used for long time in order to prevent leaking liquids, corrosion and any electronic damage, remove the batteries.

THE BODY PACK TRANSMITTER L100



1. Lavalier microphone input with 4-pin mini-XLR connector to be screwed.
2. Key to temporarily mute the audio signal: press to enable and press again to disable the function (Default: disabled function).
3. Flexible antenna
4. Lavalier microphone
5. LCD display
6. Power button: press and hold for 2 seconds to turn the transmitter on and off.
7. SYNC infrared port to get the signal from the receiver, when the frequencies are synchronized.
8. MODE key to log into different functions: Frequency-AF Gain-RF Power-Mute Mode Manual-Unlock.
9. SET key to select the chosen parameters.
10. Batteries compartment: 2AA alkaline batteries
11. Clip to fasten the transmitter to a belt or other supports: it is removable and can be mounted both with the hook downwards and upwards.

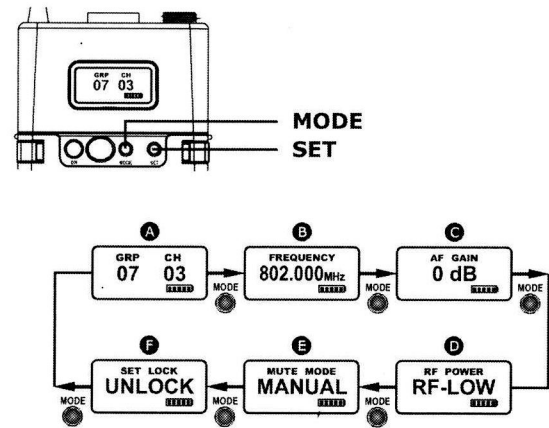
To use the transmitter, insert the supplied lavalier microphone into audioinput before turning on the system, making sure to screw it correctly.



In addition to frequency group (GRP) and transmission channel (CH), the LCD display (A1) also shows the MUTE mode (A2), if enabled, and the battery charge level (A3).



By pressing the MODE key you access to the 6 functions shown in the opposite figure. To choose the function to be changed press the SET key: the display starts flashing and by holding the SET key it is possible to change the parameters. To confirm and save your choice press the MODE key again.



- A – Group and Channel
- B – Frequency
- C – AF
- D – RF
- E – Mute
- F – Parameters lock

Group, Channel and Frequency are non-modifiable values and appear only after synchronization with the receiver (SYNC).

To change the input sensitivity:

- Press the MODE key until AF GAIN appears on the display
- Press the SET key to enable the function and the parameter starts flashing
- Select the desired value (values between 12dB and -18dB are available)
- Press the MODE key to confirm and save the change

To change the RF output value (Default: RF-HI):

- Press the MODE key until RF POWER appears on the display
- Press the SET key to enable the function and the parameter starts flashing
- Select the desired value (two values RF-HI and RF-LOW are available)
- Press the MODE key to confirm and save the change

To change the MUTE function:

- Press the MODE key until the MUTE MODE appears on the display
- Press the SET key to enable the function and the parameter starts flashing
- Select the desired value (two values MANUAL and DISABLE are available)
- Press the MODE key to confirm and save the change

(The MUTE key on the top of the transmitter works if the parameter is set MANUAL, while it doesn't work if the parameter is set on DISABLE.)

To change the LOCK function:

- Press the MODE key until SET LOCK appears on the display
- Press the SET key to enable the function and the parameter starts flashing
- Select the desired value (two values LOCK and UNLOCK are available)
- Press the MODE key to confirm and save the change
- Press the SET key twice to disable the lock function
- The lock is automatically removed when a power loss occurs
- The MUTE function continues to function even the transmitter is locked.

(Once the transmitter is locked, none of the 6 parameters can be changed.)

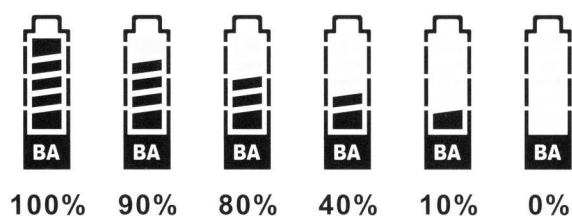
ERR

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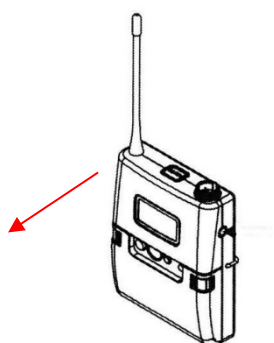
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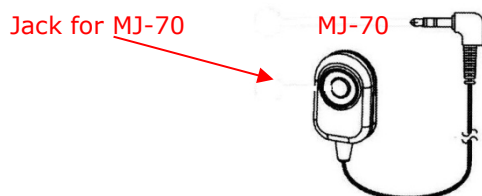


The battery level indicator appears at the bottom right of the display. When the batteries has less than 10% charge, they must be replaced: if you continue to use the microphone, "OFF" will appear on the display and the system will turn off to avoid over-discharging the batteries.

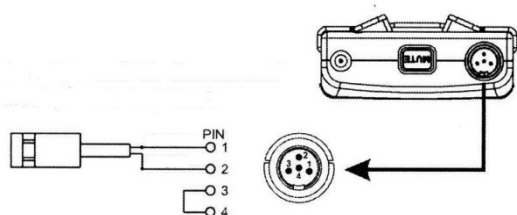
EXTERNAL MUTE MODE



The transmitter is equipped with a 3.5mm jack to connect a MJ-70 external switch with cable (optional). This allows you to temporarily mute and unmute the audio.

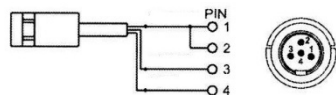


AF INPUT CONNECTINS



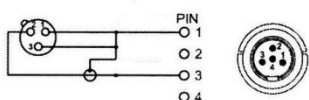
Connection for 2-wire electret condenser microphone

Pin 1 = ground
Pin 2 = audio



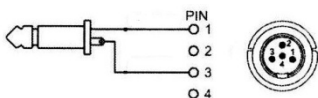
Connections for 3-wire electret condenser microphone

Pin 1 = ground
Pin 3 = audio
Pin 4 = power



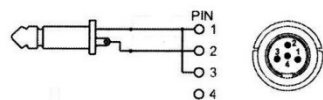
Connections for a dynamic microphone

Pin 1 = ground
Pin 3 = audio



Connections for electric guitar

Pin 1 = ground
Pin 3 = audio



Connections line input (Impedance 8Ω 10dB)

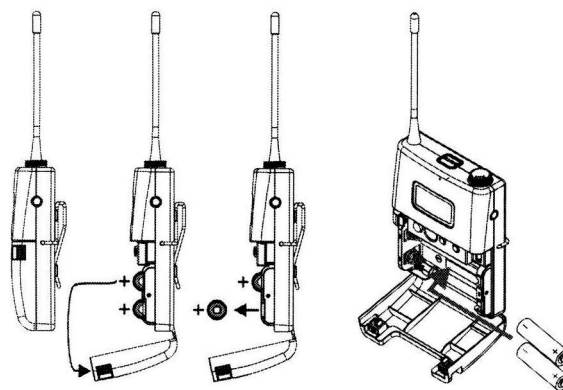
Pin 1 = ground
Pin 2 = audio

BATTERIES

The batteries are located on the front side of the transmitter; to open the batteries compartment door, simultaneously press the two snap closures on the sides of the door.

Insert two AA alkaline batteries in the compartment with the polarities as shown in the figure opposite. Finally, close the door making sure it clicks.

If not used for long time in order to prevent leaking liquids, corrosion and any electronic damage, remove the batteries.



Appendix

FREQUENCIES CHART

Frequency bandwidth: 7CF (740~764MHz)

Group Channel	1	2	3	4	5	6	7	8	9	10	11	0
1	741.275	741.525	741.775	742.025	740.100	741.675	740.600	740.850	742.000	741.525	*	744.000
2	742.075	742.325	742.575	742.825	741.700	743.175	741.100	741.350	750.000	742.050	*	752.000
3	748.400	748.650	748.900	749.150	747.100	747.175	742.300	742.550	758.000	743.025	*	760.000
4	753.225	753.475	753.725	753.975	749.200	750.675	742.825	743.075	743.225	743.450	*	
5	756.800	757.050	757.300	757.550	755.600	753.675	744.250	744.500	744.650	746.150	*	
6	759.125	759.375	759.625	759.875	759.300	758.675	745.300	745.550	745.700	746.675	*	
7	760.900	761.150	761.400	761.650	760.400	760.675	745.925	746.175	746.325	747.725	*	
8	762.125	762.375	762.625	762.875	763.600	763.175	746.900	747.150	747.300	748.175	*	
9							755.750	756.000	756.150	755.675		
10							756.875	757.125	757.275	756.100		
11							758.650	758.900	759.050	757.275		
12							759.300	759.550	759.700	757.825		
13							760.800	761.050	761.600	760.400		
14							761.300	761.550	762.450	760.925		
15							762.050	762.300	762.950	762.050		
16							762.550	762.800	763.875	762.475		

PRACTICAL TIPS FOR INSTALLATIONS WITH MULTIPLE WIRELESS MICROPHONES

- To grant the proper operation of several wireless microphones simultaneously, use channels of the same group.
 - In groups from 1 to 6 you find 8 frequencies that don't interfere with each other and therefore can be used simultaneously.
 - In groups from 7 to 10 you find 16 frequencies that don't interfere with each other and therefore can be used simultaneously.
- When using several wireless microphones (8-16) simultaneously, the distance between the transmitters and the receiver must be very small (about 3mt), and the distance between the various transmitters must not be less than 30cm.
- In group 11 there is the possibility to add a desired frequency (see the guide).
- In group 9 the first 3 frequencies are the least disturbed by the bands of European television channels.
- The group 0 is reserved for production tests.



Frequency bandwidth: 5NF (518~542MHz)

Group Channel	1	2	3	4	5	6	7	8	9	0	A
1	518.025	519.100	519.800	520.775	521.025	523.250	518.100	518.875	518.000	519.525	522
2	518.525	519.600	520.300	521.275	521.525	523.750	518.900	520.275	526.000	520.050	530
3	520.250	521.325	522.025	523.000	523.250	525.475	519.900	521.275	534.000	521.025	538
4	521.675	522.750	523.450	524.425	524.675	526.900	521.100	522.475	519.700	521.450	
5	524.300	525.375	526.075	527.050	527.300	529.525	523.500	522.875	521.800	524.150	
6	533.075	534.150	534.850	535.825	536.075	538.300	524.900	527.275	523.200	524.675	
7	534.650	535.725	536.425	537.400	537.650	539.875	530.100	528.075	526.000	525.725	
8	535.550	536.625	537.325	538.300	538.550	540.775	530.500	532.275	527.700	526.175	
9							532.100	535.475	528.500	533.675	
A							537.900	536.075	533.300	534.100	
B							538.500	538.875	536.700	535.275	
C							541.900	541.875	538.700	535.825	
D									539.700	538.400	
E									541.000	538.925	
F									541.600	540.050	

PRACTICAL TIPS FOR INSTALLATIONS WITH MULTIPLE WIRELESS MICROPHONES

- To grant the proper operation of several wireless microphones simultaneously, use channels of the same group.
 - In groups from 1 to 6 you find 8 frequencies that don't interfere with each other and therefore can be used simultaneously.
 - In groups 7 and 8 you find 12 frequencies that don't interfere with each other and therefore can be used simultaneously.
 - In groups 9 and 0 you find 15 frequencies that don't interfere with each other and therefore can be used simultaneously.
- When using several wireless microphones (8-16) simultaneously, the distance between the transmitters and the receivers must be very small (about 3mt), and the distance between the various transmitters must not be less than 30cm.
- In group 9 the first 3 frequencies are the least disturbed by the bands of European television channels.
- The group 0 is reserved for production tests.



Environmental Packaging

Packaging Disposal according to Italian Legislative Decree 116/2020

Below are the codes of our packaging related to disposal.



Box (Corrugated Paper) Paper (PAP 20)



Separated Collection (Paper)

- Check the provisions of your municipality
- Empty packaging before collection
- Reduce the volume of the box



Box (No Corrugated Paper) Paper (PAP 21)



Separated Collection (Paper)

- Check the provisions of your municipality
- Empty packaging before collection
- Reduce the volume of the box

Service Booklets and documents



Paper (PAP 22)



Separated Collection (Paper)

- Check the provisions of your municipality
- Remove the back (LDPE 4) before harvesting
- Reduce the volume of the manual



Plastic bags

Plastic (LDPE 4)



Separated Collection (Plastic)

- Check the provisions of your municipality
- Empty packaging before collection
- Reduce the volume of the bag





Plastic bags

Plastic (LDPE 4)



Separated Collection (Plastic)

- Check the provisions of your municipality
- Empty packaging before collection
- Reduce the volume of the bag



Plastic

Low-density polyethylene (LDPE 4)



Separated Collection (Plastic)

- Check the provisions of your municipality
- Empty packaging before collection
- Reduce the volume of the packaging



Plastic

Polyethylene (PP 5)



Separated Collection (Plastic)

- Check the provisions of your municipality
- Empty packaging before collection
- Reduce the volume of the packaging



Pallet

Wood (FOR 50)



Separated Collection (Wood)

- Check the provisions of your municipality
- Separate packaging before collection
- Reduce the volume of packaging



Plastic

Low-density polyethylene (LDPE 4)



Separated Collection (Plastic)

- Check the provisions of your municipality
- Separate packaging before collection
- Reduce the volume of packaging



Plastic

Low-density polyethylene (O 07)



Separated Collection (Plastic)

- Check the provisions of your municipality
- Separate packaging before collection
- Reduce the volume of packaging



Plastic

Low-density polyethylene (LDPE 4)



Separated Collection (Plastic)

- Check the provisions of your municipality
- Separate packaging before collection
- Reduce the volume of packaging

WARRANTY CERTIFICATE

Dear Customer,

We are pleased to inform you that it has been transposed into Italian law, through Legislative Decree no. 24 of 2 February 2002, a Community directive on sales and consumer protection.

This Directive makes a distinction between consumer goods for private use and those used exclusively in the professional field.

In particular, the new standard applies only to consumer goods for private use, and consequently consumer goods used in the course of their professional or business activities will be guaranteed according to the normal general sales rules provided by the civil code.

In both cases, FULGOR SERVICE, by virtue of the quality of its products, applies a 24 months warranty period.

Warranty management

As Directive 1999/44 / EC represents a high level of consumer protection, the decree governs certain aspects of sales contracts concluded between **the consumer and the seller** and guarantees relating to the consumer goods sold.

For the purpose of the Legislative Decree, it is understood that:

For Consumers any natural person who purchases consumer goods for use solely in the private sector and hence outside his or her professional or business activity;

For Seller, any natural or legal person, whether public or private, who uses one of the above-mentioned contracts in the course of his or her business or professional activity;

For the sake of consumption any mobile goods, with express exclusion of the forced sale of goods; Water and gas, when not packaged for sale in a volumetric volume or in a specified quantity.

Consumers are entitled to rights under applicable national legislation governing the sale of consumer goods. The warranty does not affect these rights.

The warranty is valid in all EU Member States.

According to the new legislation, any claim by the consumer to the warranty must be submitted to the retailer and / or point of sale at which the product was purchased.

FULGOR SERVICE has also set up a toll-free number 800-804067. By calling this number we will be able to collect your reports regarding warranty issues and possibly arrange direct return / repair methods.

The number is active from Monday to Friday (excluding holidays), from 8am to 12.30pm and from 14am to 5pm in the winter months and from 7.30am to 12.30pm during the summer months (July and August)

GUARANTEE CLAUSES

The product is guaranteed for a period of 24 (twenty-four) months from the date of purchase. Warranty means repairing or replacing equipment that is defective in the sales contract (and generally product information), the warranty is free of charge and excludes shipping costs for the Consumer.

The warranty is valid only if this warranty certificate, completed in all its parts by the buyer and accompanied by a valid proof of purchase (copy of the invoice or tax receipt for the consumer), is presented at the moment of the request for intervention. The non-compliant product must be returned to the original packaging, complete with all accessories.

The serial number on the product must not be erased or made unreadable, since the warranty is invalid.

The warranty does not apply in the case of damage caused by improper use, use or installation that does not comply with the instructions given, tampering, product or serial numbering, accidental or negligent damage to the buyer with particular reference to the outside parts. It also does not apply in case of faults due to connections of the device at voltages other than those indicated or sudden changes in the mains voltage to which the appliance is connected, as well as in case of faults caused by liquid infiltration, fire, discharges Inductive / electrostatic or discharge caused by lightning, overvoltages or other phenomena outside the device.

Warranty includes parts subject to wear after use, batteries when supplied, connectors and connectors, connectors, external parts and plastic supports, which do not have manufacturing defects.

They are excluded from the warranty: periodic checks, software updates, settings, maintenance.

After the warranty period has expired, the assistance will be charged by charging the replaced parts, labor and transport costs, according to the rates in force.

The guarantee is provided by: FULGOR SERVICE snc., Via Caduti del lavoro 58, 19021 Arcola - La Spezia.



CONSUMER DATA

Fill in every part and join the product. In the case of warranty, please always enclose a copy of the valid **proof of purchase** and send the product to the following address: FULGOR SERVICE snc., Via Caduti del lavoro 58, 19021 Arcola La Spezia or fax 01 87 952326.

Surname _____			Name _____		
Parish/Religious Institute/other _____					
Street _____					
Zip Code _____		City _____		Prov. _____	
Tax Code/VAT _____					

PRODUCT DATA

MODEL _____		SERIAL NUMBER _____		FREQ. MHz _____	
DATE OF PURCHASE ____ / ____ / ____		N. INVOICE _____		RESELLER _____	



Information pursuant to Legislative Decree no. 196 of 2003 ("Personal Data Protection Code")**Dear Customer,**

We inform you that FULGOR SERVICE, pursuant to art. 13 of Legislative Decree 196/2003, will process your data provided by you in compliance with the legislation on the protection of the processing of personal data. The disclosure of the data is optional but any refusal to provide them will result in the impossibility of performing the obligations arising out of the repair service of which you are a party (Article 13, paragraph 1, letter C, Legislative Decree 196 of 2003). The personal data you provide is collected by electronic means and processed, including by means of electronic means, directly and / or through delegated third parties (repair and delivery company) for the following purposes:

- purposes related to the execution of the service and the management of the repair and return of the products sent for repair.

In any case, your data will not be disclosed (if not to a repair or redemption company) or sold to third parties. Within FULGOR SERVICE the data can only be acquired by persons specifically assigned to the Information Systems, Administration and Accounting, Customer Service departments.

According to art. 7 of Legislative Decree 196/2003 You have the right, at any time, to obtain from the Data Manager the information on the processing of your data, the manner and purpose and the logic applied to it.

The Data Controller is the legal representative of FULGOR SERVICE snc., Via Caduti del lavoro 58, 19021 Arcola - La Spezia. www.fulgor-service.it

Date _____

signature_____

Stamp and signature of the reseller




The symbol of a jar of a trash trimmed by a cross indicates that the product should not be disposed of with other household waste at the end of the life cycle, but be collected separately. In order to avoid any damage to the environment and human health due to the presence of hazardous substances, you are encouraged to give such waste to the distributor / retailer when purchasing a new product or by handing over to designated collection centers by local authorities. Penalties are provided for abusive disposal of these products.







www.fulgor-service.it

