



ER-58

Wireless System



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1. Introduction

Thank you for purchasing the Studiomaster Professional ER-58 Wireless System.

To ensure maximum performance and safety, please follow this instruction manual carefully.

Please retain this manual for future reference.

For any complaint, feedback or testimonials please contact our Distributor / dealer.

2. Features

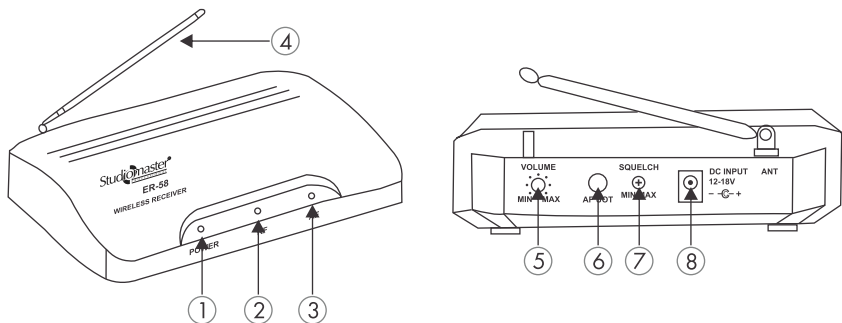
- VHF Band frequency Quartz Lock Control.
- Single Channel Receiver.
- Quartz crystal oscillating circuits keeps the frequencies steady.
- Noise squelch control circuit
- Built-in spherical wind and pop filter.
- Special Circuit design for removing Microphone switch noise.
- Output: Balanced XLR / Unbalanced 6.35mm Phone Jack
- Audio compressing-expanding technology helps the machine to reduce noises and increase the dynamic range.
- Uniform cardioid pickup pattern isolates the main audio source and minimizes the background noise.
- LED Indicator(Power, RF, AF) & Telescopic antenna.

3. System Components

- 1. Receiver (ER-58).....x 1
- 2. Microphone (EM-58) or Lapel (EL-58).....x 1
- 3. Audio Cable.....x 1
- 4. AC Power adapter for receiver.....x 1
- 5. Battery (9V).....x 1
- 6. Instruction Manual.....x 1

4. Operating Instructions

Receiver Features
Front Panel & Rear Panel



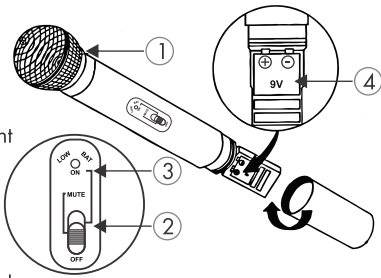
- 1. **Power on LED:** This LED lights up when the receiver is Switched ON or OFF.
- 2. **RF LED:** This LED lights up when antenna receives signals.
- 3. **AF LED:** This LED lights up according to the volume of the microphone when talking or singing.
- 4. **Antenna:** The antenna receives signals from the Transmitter.
- 5. **Volume Control:** This knob is used to increase or decrease the Db level of the receiver respectively.
- 6. **Audio output socket:** output impedance: 600Ω.
- 7. **Squelch Control:** This Control is a Default Factory Preset and further adjustment is not required generally. Rotating the squelch control clockwise will enhance the audio signal quality but the range of the system will be reduced. Rotating the squelch control Anti-clockwise will increase the range of the system but the audio signal quality will be reduced.
- 8. **DC IN Power Supply Outlet :** The DC Jack is used to connect the DC 12-18V Power Supply Adapter.

Usage Tips

- Make sure you can always see the receiver antenna from the transmitter position
- Keep the distance from transmitter to receiver as short as possible
- Avoid placing the receiver antennas near metal surfaces and obstruction
- Perform a walk through before performance or presentation. If dead spots are found, adjust location of receiver, if it still exists mark the spots and avoid it.

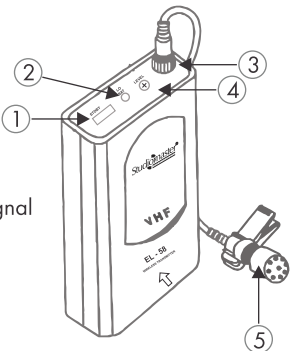
Handheld Transmitter Features

1. Grill: Protects the microphone cartridge and helps reduce breathing sounds and wind noises.
2. Power & Mute Switch: This switch is used to ON the microphone by moving the switch upwards and at the end of the upper part is Mute mode and to the bottom is the OFF mode this is to prevent the microphone from being accidentally turned OFF.
3. Low Battery Indicator: A red light glows an hour or less before the battery is on the verge of getting depleted thus allowing the user to change the battery before the power is depleted.
4. Battery Compartment: Unscrew it for 9V battery and Gain control.



Body Pack Transmitter Features

1. Power and Audio Mute Switch: Switch to ON/OFF the transmitter, While switching OFF switch it to MUTE mode to avoid thumping noise
2. Low Battery Indicator: Red light indicates low battery
3. Input Connector: Special connector, allows connection to a variety of lavalier, headset microphone cables and instrument adapter cables.
4. Audio Gain control: Provides audio level adjustment to various input signal strengths. The factory setting is at mid-point. Use a small screwdriver to make adjustments. Rotate the transmitter gain control clockwise or anti-clockwise in order to increase or decrease the voice gain.
5. Lavalier Microphone / Headset Microphone.



5. Basic Troubleshooting

Issue	Solution
Receiver Led not Glowing	Make sure AC adapter is securely plugged into electrical outlet and into POWER connector on rear panel of receiver. Make sure AC electrical outlet is in working condition and is supplying proper voltage.
Audio light glows without audio	Please check Gain levels and cable connections.
Distortion or unwanted noise bursts	Remove nearby sources of RF interference like CD Players, computers, cell phones e.t.c. Reduce transmitter gain. Replace transmitter battery. If using multiple systems, change the channel of one of the active systems and never set them on the same frequency at the same place and separate them by considerable distances.

6. Technical Specifications

Overall Specifications:

Modulation Mode	FM
Frequency response	50Hz-15KHz $\pm 3\text{Db}$
S/N ratio	More than 90 Db
Audio dynamic range	More than 90 Db
T.H.D	Less than 0.5%
Operating range	100m

Receiver Specifications:

Power requirements	12-18V DC NOMINAL
S/N ratio	More than 90 Db
Channel rejection	More than 85 Db
Image & spurious rejection	More than 80 Db
Audio Output level	$\pm 0-300\text{mV}$
Receiving sensitivity	-105Dbm

Transmitter Specifications:

Power Requirements	9V Alkaline Battery
Nominal Current Drain	More than 25mA
RF Output	13Dbm
Microphone element	Uni-directional
Max Deviation	$\pm 35\text{KHz}$
Spurious Emission	More than 55Db(With carrier)

7. Product Care Instructions

- Keep the wireless receiver in a good location to ensure good signal strength.
- Do not drop the Microphone, Transmitter or receiver; this could severely damage the product
- Please keep the product away from direct sunrays & rain.
- Please keep the product away from heavy magnetic or electromagnetic fields, it could affect product performance.
- Please switch off when removing the batteries.
- Please remove the batteries/ power supply when the product is not being used for a long time.
- Do not open any of the components yourself, for repairs please contact our retailer.
- Do not use systems with the same frequency at the same place, please separate them at least by 200m .

* Design and specification are subject to change without notice

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