



BR 28 SERIES



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1. Introduction

Thank you for buying Studiomaster Professional BR-28 UHF Wireless Microphone 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 dealer / distributor.

2. Features at a Glance.

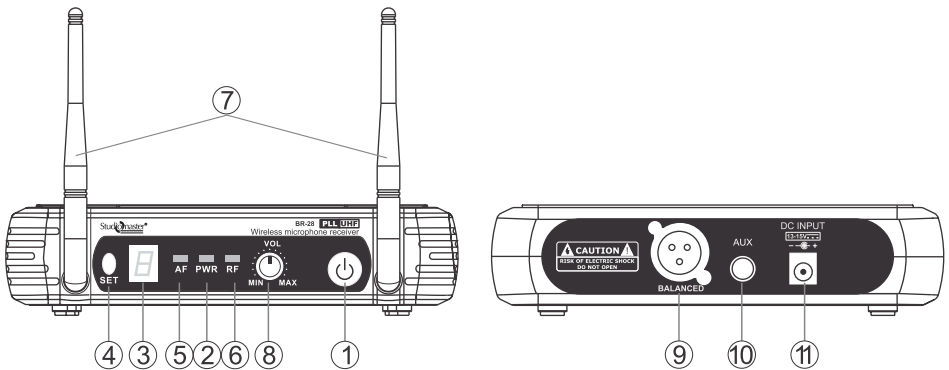
- UHF Band frequency by PLL-Synthesis Technology.
- 8 Selectable UHF Channels
- Antenna Diversity Receiver
- Double noise squelching circuit to ensure excellent sound quality.
- LED for Channel information Display
- Highly efficient & Low Energy consumption design.
- Output: Balanced XLR / Unbalanced 1/4" phone jack.
- Audio Frequency Response : 50Hz - 15kHz
- Developed especially for Live & Sound Reinforcement usage.

3. Product Components.

- Receiver (BR-28) x 1
- Wireless Handheld or Lapel Microphone x 1
- Audio Cable x 1
- AC Power Adaptor for Receiver x 1
- Battery (1.5 Volt) x 2
- Instruction Manual x 1

4. Operating Instructions

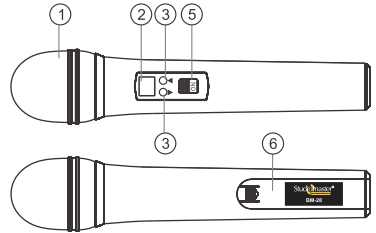
Receiver Features



1. **Power Switch:** For switching ON the DC supply to the receiver.
2. **Power ON Indicator:** This red light glows when the receiver is plugged into an electrical outlet and switched on. It indicates that the receiver is on.
3. **LED Channel Display:** Displays the Selected Channel.
4. **SET Function Switch:** The BR-28 system has 8 Preset UHF Channels. This switch can be used to Toggle between the Channels & set the required Channel.
5. **"AF" Audio Level Indicator:** Indicate the audio signal level.
6. **"RF" Signal Indicator:** This LED lights up when the antenna receives signals from the transmitter.
7. **Antenna:** The antenna receives signals from the transmitter.
8. **Volume Knob:** This knob is used to adjust the volume output of receiver. Rotate this Knob to increase or decrease the volume as required.
9. **Balanced Output XLR Male Socket:** Plug a balanced XLR cable from the receiver in to the input of a mixer or an amplifier.
10. **Unbalanced Output 1/4 JACK Socket:** Plug an unbalanced 1/4" Jack cable from the receiver in to the input of a mixer or an amplifier.
11. **DC Input Socket:** For connecting the DC Plug of a 12V adaptor.

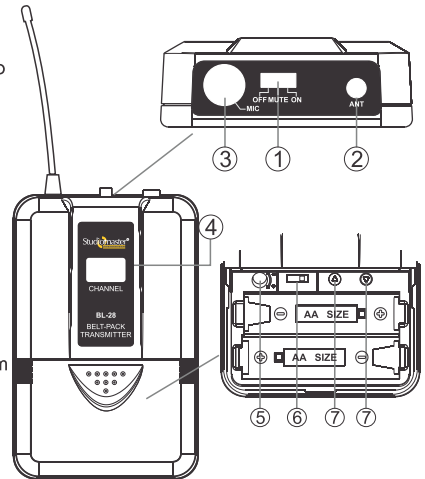
Handheld Transmitter Features

- 1. Grille:** It protects the Diaphragm from damages. Also acts as an effective wind & pop filter.
- 2. Channel Display:** Displays the Selected Channel.
- 3. UP & Down Function Button:** These switches can be used to toggle between the 8 present channels. Using this switch match the channel number with the one displaying on the receiver.
- 4. Power ON/OFF & Mute SWITCH:** This three way slide knob is used to Power the transmitter ON/OFF & also to mute the transmitter when required.
- 5. Battery Cover:** Slide the battery cover for access to the 1.5V battery slot.



Body Pack Transmitter Features.

- 1. Power ON/OFF & Mute SWITCH:** This three way slide knob is used to Power the transmitter ON/OFF & also to mute the transmitter when required.
- 2. Antenna:** Transmits the RF signal of transmitter.
- 3. Input connector:** Allows you to connect to the Lavalier microphone.
- 4. Channel Display:** Displays the Selected Channel.
- 5. Audio Gain Control:** Provides audio level adjustment to accommodate various input signal strengths.
- 6. Usage Mode Switch:** Used to select between Lavalier system (L) and Headset system (H).
- 7. Up & Down Function Button:** Used to select channel data.



5. Basic Troubleshooting.

Issue	Solution
Transmitter Indicator not lighting.	Make sure power adapter is plugged into electrical outlet and into power connector on rear panel of transmitter. Make sure electrical outlet works and is supplying proper voltage.
Audio light glows but no Sound.	Please check gain levels. Please check cable connections.
Distortion or unwanted noise bursts	Remove nearby sources of RF interference (CD Players, Computers, Cell Phones, Digital Effects Processors, Etc.) Reduce transmitter gain. Replace receiver battery. If using multiple systems, change the channel of one of the active systems. Avoid using two systems with the same frequency at the same place; please separate them at least by 200 meters.

6. Technical Specifications

Overall Specifications:

Modulation Mode	FM
Maximum Deviation Range	± 70KHz
Frequency Response	50Hz - 15 KHz
S/N Ratio	>85dB
Audio Dynamic Range	>100dB
T .H.D (Total Harmonic Distortion)	<1%

Receiver Specifications:

Power Requirements	13-15V DC , 300mA
S/N Ratio	>85dB
Channel Rejection	> 70dB
Image & Spurious Rejection	> 70dB
Audio Output level	0 - ±300mV
Receiving Sensitivity	-105dBm
Dimensions (W x D x H) mm	175 x 135 x 43

Transmitter Specifications:

Power Requirements	1.5V AA Size Battery x 2
Nominal Current Drain	< 100mA
RF Output	> 10dBm
Microphone Element	BM 28 - Unidirectional Dynamic Microphone BL 28 - Unidirectional Condenser Microphone
Max Deviation	± 70KHz
Spurious Emission	> 55dB

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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