• JET ONE and JET-1 are both trademarks of the product

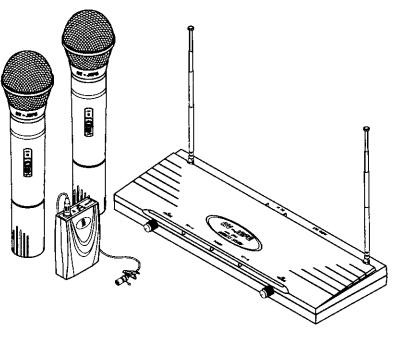


2000 AV-LEADER CORPORATION

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OPERATION MANUAL



- "JH11 (BLUE COLOR) / JH14 (SILVER COLOR)"
 HIGH PERFORMANCE HANDHELD DYNAMIC
 MICROPHONE TRANSMITTERS
- "JR14" PROFESSIONAL VHF DUAL CHANNEL RECEIVER
- "JB11 (1.5V X 2) / JB12 (9V)"
 BODY PACK TRANSMITTER



AV-LEADER CORPORATION

Professional Microphone Manufacturer

VII. PRODUCT INFORMATION:

Please contact your dealer, or

The Sales Department

AV-Leader Corporation

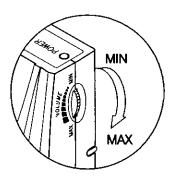
24, Lane 90, Kuei-Yang St, Tai-San Hsiang, Taipei Hsien, TAIWAN R.O.C.

Tel: 886-2- 29080859 (8 Lines)

Fax: 886-2-29017622, 886-2-29018635

E-Mail: avleader@MS7.hinet.net

F. Adjust the Volume Control of the body pack transmitter.



VI. MAINTENANCE AND CARE:

- Be careful not to spill water or any liquid on the electronic parts of the unit.
- Keep particles from entering the handheld transmitter's windscreen. Accumulated particles such as minute iron or steel filings on the mic's transducer diaphragm can reduce the microphone's low frequency response.
- Avoid exposing the microphone to extreme temperatures and excessive humidity for long periods of time. Exposure to high temperatures can result in gradual and permanent reduction of the microphones output level.
- Accumulated moisture on the diaphragm surface can cause crackling sound. In case of dew formation, switch to "mute" position first for a while before using. Wipe the exteriors of the receiver and the transmitters with a clean, damp cloth. Never use alcohol or thinners in cleaning, these chemicals can damage the components as well as the unit cases.
- Protect the unit from high-impact dropping.
- Turn "off" the power whenever the unit is not in use.
- There are no user-adjustable parts inside the unit. Please do not attempt to open or make any adjustments.

A MESSAGE FROM US:

We, at AV-Leader Corporation thank you for selecting our Jet One Wireless Microphone System. As we grow and trek new horizons each year, we remain steadfast to our goal in bringing the world high quality, innovative, reliable, and affordable audio products.

This manual is intended to provide you the user. information and hints on how to optimize the performance and service life of your Jet One. Please familiarize yourself on its functions and requirements before operating the system. Should you need product technical assistance, please contact your dealer or us at AV-Leader.

THE JET-1 WIRELESS MICROPHONE SYSTEM:

FEATURES:

Your JET ONE Wireless Microphone System is ideal for a variety of sound reinforcement applications for stage, lecture halls, conference rooms, home, or outdoor use. It provides you with the following features:

Compact, Slim, Lightweight, and Easy Plug-On Design

Wide Range and User Friendly

Your JET ONE System operates on an authorized VHF band and has a useful range of 300 ft (91.4 M) of in-line of sight applications. It features easy to operate

controls and LED indicators.

High Performance Handheld Transmitter (JH12)

Dynamic handheld transmitter with **cardioid** unidirectional polar pattern. It significantly reduces ambient noise pick up resulting to improved performer sound isolation and better feedback control, making it ideal for vocal transmission. It also allows greater working distance between the user and the handheld transmitter.

Dual Channel Receiver (JR14)

The JR14 receiver of the JET ONE System is offered two frequency channels. The frequencies are crystal-controlled for stability and clean, clear transmission. There are five available frequencies for purchase:

1.	170.2 MHz	197.3 MHz	4.	184.9 MHz	209.2 MHz
2.	179.2 MHz	198.3 MHz	5.	193.2 MHz	208.2 MHz

3. 182.2 MHz 206.2 MHz

The operation frequencies for each unit are already <u>factory preset</u>, and are indicated at the bottom panel of the receiver, and on the battery case for each corresponding transmitter.

Body Pack Transmitter (JB11)

Adopting 3V battery with longer operating time. It features a variable volume control of input level. The JB11 functions with lavalier and headset microphones.

Convenient Power Source

The handheld transmitter runs on a single 9V battery (alkaline-type preferred), while the body pack transmitter operates on two 1.5V AA-type battery. The receiver requires a 12V DC power supply and is equipped with a detachable AC to 12V DC power adaptor.

Battery Saver Design

Power demand is so low that a 9V alkaline battery will provide 20 continuous operating hours for one transmitter.

Power Switch "Mute" Function

Conveniently located on the power switch, it provides noiseless control of the "on" and "off" functions.

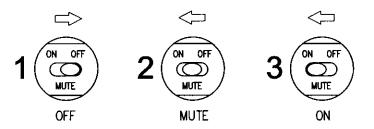
Battery Power LED Indicator

Lights up when the transmitter is switch "on". Its luminance also indicates the battery life.

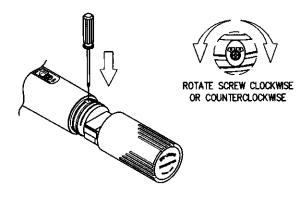
Squelch Circuitry

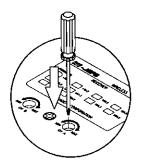
Useful in eliminating sudden noise outbursts.

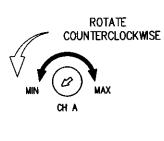
2. Body Pack Transmitter



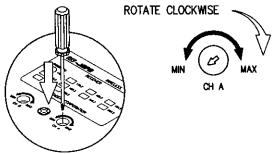
- Replace the battery when the Power LED Indicator dims or does not light up during the course of operation. This means that the battery voltage has dropped to 6V, and you have one hour or less of useful operating time.
- If you want to stop singing or talking temporarily, just put the switch to "mute" and that lets the system "stand by" to serve.
- D. Talk to the microphone. Adjust the receiver and amplifier/mixer volume for a good sound level.
- To avoid the feedback noise, the microphone must be at least 1 meter away from any speaker.
- E. Adjust the Audio Gain Control according to your own preference with a mini screw driver.



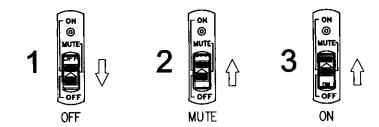




- C. Switch "on" the transmitter (LED Power indicator will light up).
- If the RF signal indicator of the receiver is not lighted up while the transmitter is "power on", try to tune the squelch control (to the "MAX" direction) until the indicator is lighted up.



- The "mute" position allows noiseless switching to "on" or off" position. The suggested operation is that switching from "off" to "mute" then to "on" or switching from "on" to "mute" then to "off".
 - 1. Handheld Transmitter



II. SPECIFICATIONS:

OVERALL SYSTEM:

Operating Frequency

VHF 169.445 MHz to 216 MHz

Frequency Stability

±0.005% crystal controlled

Modulation Mode

FΜ

Maximum Deviation Range

± 15 KHz

Frequency Response

50 Hz to 15 KHz

Operating Temperature Range

5°C to 50°C

Operating Range

Typical conditions: 100 ft (30.5 M)

In-Line of Sight Applications: 300 ft (91.4 M)

DUAL CHANNEL RECEIVER (JR14):

Image Rejection

 \geq 60 dB

Signal to Noise Ratio

>90 dB at 30 KHz deviation (IEC-Weighted)

Total Harmonic Distortion

1% (10 KHz deviation @ 1 KHz)

RF Sensitivity

15 dB - µV @ SN 60 dB

Intermediate Frequency

10.7 MHz

Audio Output

6.3 mm Phone Jack - Unbalanced Output

Power Supply

12 V DC, 300 mA

Dimensions

297 x 100.4 x 33 mm (L x W x H)

Weight

453 grams

HANDHELD TRANSMITTER (JH12):

RF Power Output

50 mW (maximum)

Spurious Emissions

Less than - 40 dB

Current Drain

28 mA

Battery Life

20 hours, continuous service (a new 9V

alkaline battery)

Dimensions

φ51 x 241 mm (head diameter x overall length)

Net Weight

265 grams (single unit without battery)

D. BODY PACK TRANSMITTER (JB11):

Microphone Electrical condenser (Lavalier, Headset)

Antenna built-in RF Output 50 mW

Spurious Emissions Less than -40 dB

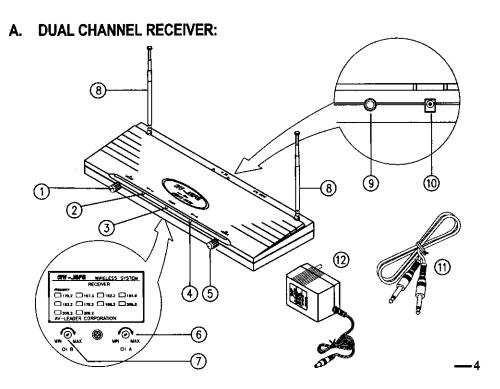
Battery 1.5V X 2 AA-type battery

Battery Life 15 ~ 20 hours

Dimensions (LxWxH) 95 x 62 x 32

Weight 70 g

III. PARTS AND CONTROLS:



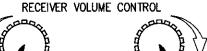
- a. Connect one of the 6.3mm plugs of the output cable to the unbalanced audio output of the receiver.
- Connect the other 6.3mm plug of the output cable to the audio input of the auxiliary equipment (amplifier, mixer).

D. TELESCOPING ANTENNA:

Extend the two telescoping antennas to their maximum length vertically

V. OPERATION:

- A. Switch on the amplifier or the mixer
- Always set the volume control of both the receiver and the connected equipment to a low level before switching "on" the transmitter and the audio equipment. Otherwise, if the volume controls are at high level, the sudden blast of sound energy can permanently damage your hearing and/or ruin your speakers.



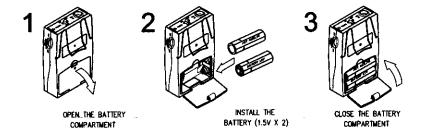
MINIMUM LEVEL

MAXIMUM LEVEL

- B. "Power on" the receiver via connecting the AC power adaptor cable. (Please refer to page 7 of this manual)
- If the RF signal indicator of the receiver is lighted up while the transmitter is "power off", it means that the receiver has been interfered with some noise signal. When this happens, try to tune the squelch control (to the "MIN" direction) until the indicator goes out. If it is not possible to tune off the indicator, it means that the noise signal is too strong. To solve this problem, it is necessary to change the system with different operating frequency

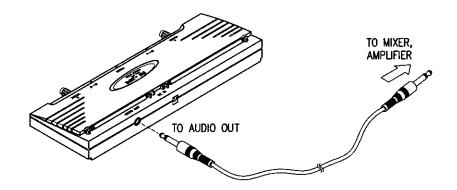
- a. Unscrew the battery cover.
- Install a 9V battery (alkaline preferred) on the battery compartment. Observe proper battery polarity.
- c. Re-screw the battery cover.

3. BODY PACK TRANSMITTER:



- a. Open the battery compartment cover.
- Install two 1.5V AA-type battery in the battery compartment. Observe proper battery polarity.
- c. Close the battery compartment cover.

C. AUXILIARY EQUIPMENT CONNECTION:

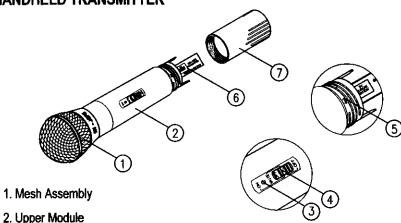


- 1. Volume Control (Channel A)
- 2. RF Signal Indicator (Channel A)
- 3. Power LED Indicator
- 4. RF Signal Indicator (Channel B)
- 5. Volume Control (Channel B)
- 6. Squeich Control (Channel A)
- 7. Squelch Control (Channel B)
- 8. Telescoping Antenna
- 9. Unbalanced Audio Output
- 10.DC Power Socket

Accessories:

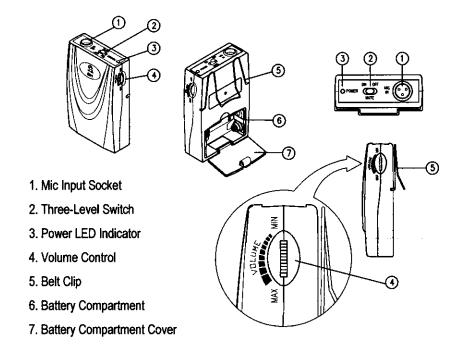
- 11. Output Audio Cable
- 12.AC Power Adaptor

B. HANDHELD TRANSMITTER



- 3. Power Indicator
- 5. Fower indicator
- 4. Power Switch
- 5. Audio Gain Control
- 6. Battery Compartment
- 7. Lower Module / Battery Cover

C. BODY PACK TRANSMITTER



IV. SETTING UP:

A. LOCATION TIPS:

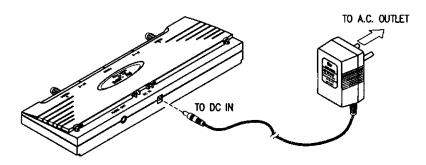
You can place the receiver on many different kinds of locations to suit your needs:

- Select a place which has a flat, dry and suitable temperature environment (5°C to 50°C).
- 2. Do not use the unit in place subjected to vibrations.
- Close proximity to fences, low ceiling fluorescent lights, or overhead telephone lines can cause static to the unit. Should this occur, slightly reposition the receiver until static signals are gone.
- In case of a "dead spot" when used inside a room, slightly change the position of the receiver until audible signals are received.

- 5. Operate the unit away from TV or radios to avoid interference.
- In order that the system achieves its optimum performance, the receiver should be placed at least 1 meter above the ground and 1 meter away from the transmitter.

B. POWER SUPPLY:

1. DUAL CHANNEL RECEIVER:



- a. Connect the AC Power Adaptor plug to the power input receptacle.
- Plug the AC Power Adaptor to an AC electrical outlet. Please see adaptor label for the required input voltage (power LED indicator will light up).
 - Do not handle the AC Power Adaptor with wet hands!
- When unplugging from a wall outlet, always pull the AC Power Adaptor and not its power cord.

2. HANDHELD TRANSMITTER:

