NAS Solutions iDR-222 Wireless Microphone System User Manual

inDESIGN

INSTALLATION & OPERATION MANUAL IDR-111
IDR-222
iDT-HM1
iDT-BP1
WIRELESS MICROPHONE SYSTEMS

Contents

Electrical and Safety Warnings

CAUTION
THESE SERVICE INSTRUCTIONS ARE FOR USE BY QUALIFIED SERVICE PERSONNEL ONLY. TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT PERFORM ANY SERVICING OTHER THAN THAT CONTAINED IN THE OPERATING INSTRUCTIONS UNLESS YOU ARE QUALIFIED TO DO SO.

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN
The lightning flash with arrowhead symbol, with an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.	**WARNING:** TO REDUCE THE RISK OF ELE OCK, DO NOT REMOVE COVER (OR BACK R SERVICEABLE PARTS INSIDE. REFER S TO QUALIFIED SERVICE PERSONN **WARNING:** TO REDUCE THE RISK OF FIR CTRICAL SHOCK, DO NOT EXPOSE THIS E TO RAIN OR MOISTURE.

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.

4. Follow alll instructions.

5. To prevent injury please refer to these instructions for electrical and safety information before installing or operating the apparatus.

6. No naked flame sources such as lighted candles should be placed on the apparatus.

7. Operation of this apparatus is recommended for moderate climates only.

8. This aoparatus must not be exposed to dripping or splashing liquid. No object filled with liquid, such as a vase, should be placed on the apparatus.

9. Clean only with a dry cloth.

10. Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.

11. Do not install near any heat sources such as radiators, heaters, stoves, or other apparatuses(including amplifiers) that produce heat.

12. Unplug this apparatus during lightening storms or when not in use for long periods of time.

13. ⏚ **Protective Earthing Terminal:**

    The apparatus should be connected to a mains socket outlet with a protective earthing connection.

14. The mains plug/appliance coupler is used as a disconnect device, the disconnect device shall remain readily operable.

15. When not in use and during transportation, please take care of the power cord set, for example, tie Up the power cord set with a cable tie/something similar. It should be kept away from sharp edges and the like that can cause abrasion of the power cord set. When put into use again, check that the power cord set is not damaged. If any damage is found, have the unit checked by a qualified service person to replace the power cord set specified by the manufacturer.

16. The terminals marked with symbol of " A ⚡ "may be of sufficient magnitude to constitute a risk of electric shock. The external wiring connected to the terminals requires installation by a qualified service person or the use of ready-made leads or cords.

17. Only use attachments/accessories specified by the manufacturer.

18. Refer all servicing to qualified service personnel. Servicing Is required if the apparatus has been damaged In any way, such as power-supply cord or plug breakage, damage due fo liquid or objects falling onto the apparatus, exposure fo rain or moisture, or if the apparatus does not operate normally, or has been dropped.
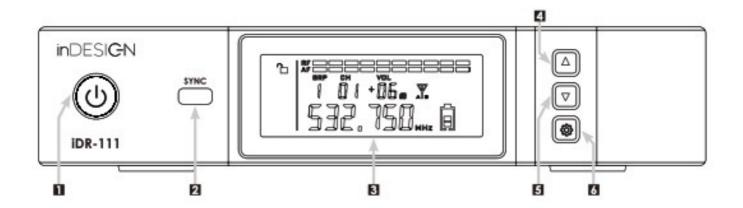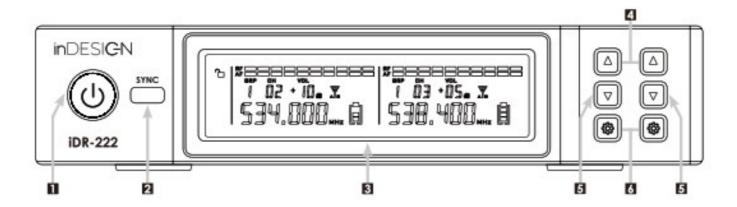
19 🗑 **Correct Disposal of this Product:**

This marking indicates that this product should not be disposed of with other household wastes. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, pleaseuse the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental-safe recycling.
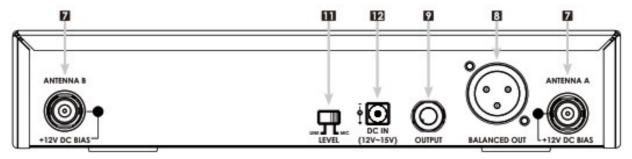
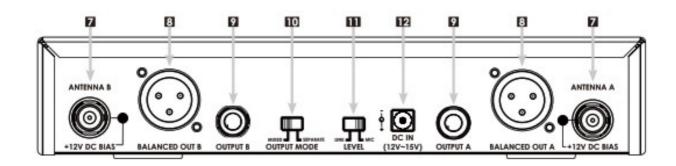**WARNING:** There are no user-serviceable parts inside. Refer all servicing to qualified service personnel.

IDR-111/iDR-222 FRONT & REAR PANELS

1. Power Switch.

2. Infrared (IR) synchronization window -— Align this window with a wireless transmitter IR sync window for radiofrequency synchronization.

3. LCD Display Screen.

4. Volume ▲ (+) button/menu function button.

5. Volume ▼ (-) button/menu function button.

6. SET ⚙ button — Channel infrared data transmission (SYNC) button/menu settings button.

7. A/B Antenna TNC connection ports.

8. Channel A/B XLR balanced mic/line output (pin 2 hot).

9. Channel A/B 6.35 jack unbalanced output.

10. Mix/Separate output switch (iDT-222 only).

11. Mic/Line switch (Determines available output gain for either microphone or line outputs).
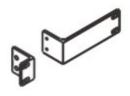
12. Power input (12Vdc 1A).

RACKMOUNT DIAGRAM

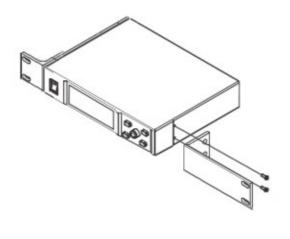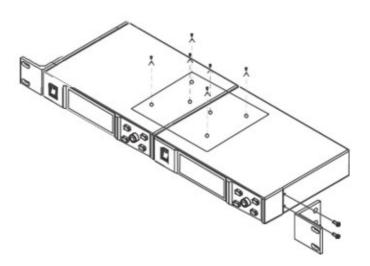**Figure 1: Single Receiver**   **Figure 2: Dual Receivers**
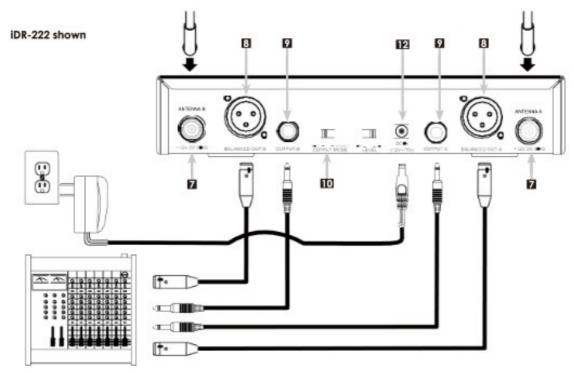

The IDR-111 & IDT-222 both ship with a rackmount kit.
Each rackmount kit is capable of rack mounting either a single iDR-111/iIDR-222 or a pair of iIDR-111/iDR-222 receivers.
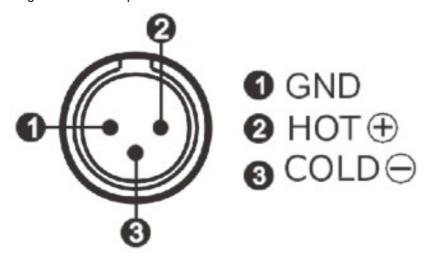
CONNECTIONS

1. Connect the 2 included whip antennas to Antenna A and B ports (7).

2. Connect the AC/DC 12VDC 1.5A power supply to DC in port (12).

iDR-222 shown

3. **Audio Output Connections:**

    A) Connect the BALANCED OUT A/B of each channel **(8)** to balanced Microphone or Line input/s with a quality balanced XLR signal cable. XLR pinout is shown below.

❶ GND
❷ HOT ⊕
❸ COLD ⊖

B) Connect the OUTPUT A/B ports **(9)** to Unbalanced Line input/s with a 6.35mm TS Phono jack.

C) iDR-222 Dual channel receiver only — OUTPUT MODE:

Output mode switch (10) allows users to mix the outputs of both receiver channels fo OUTPUT B 6.35mm TS Phono socket. The balanced XLR microphone outputs will continue to output their discrete receiver channel.
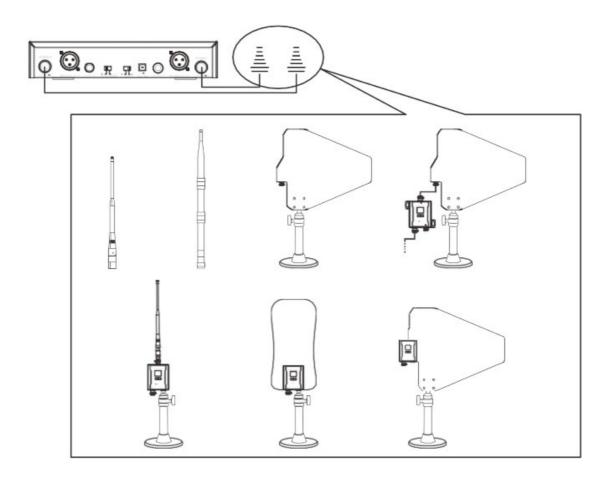
ANTENNA EXTENSION

Both the iDR-111 and IDR-222 receivers are compatible with external powered and passive antenna extension products. Antenna A&B ports are designed to power inline antenna boosters and active antenna amplifiers. Each Antenna port provides 8-12v, 300ma DC power.
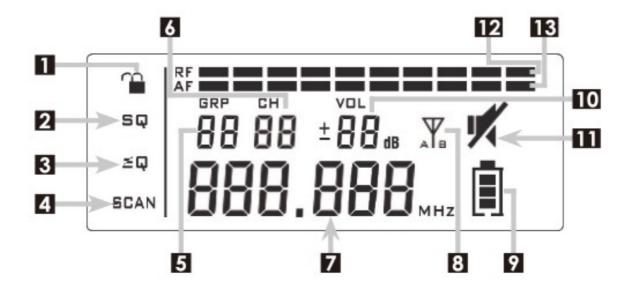
Passive Antenna Extension

The included whip antennas can be extended up to 5-10 metres. It is recommended to use quality 5;00hm low loss coax cable and quality INC connectors. Antenna extensions over 5-10 metres require active in line boosters or active amplified antennas.

Antenna Examples

LCD DISPLAY LAYOUT & MENU OPERATION
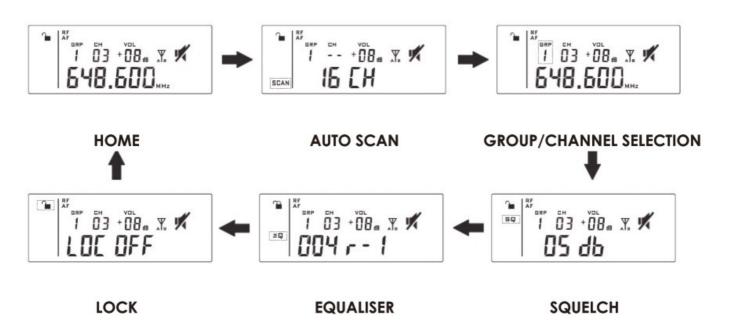
iDR-111/iDR-222 LCD Display

|	
1. Receiver LOCK symbol. 2. SQUELCH symbol. 3. Equaliser EQ symbol. 4. Automatic frequency SCAN symbol. 5. Frequency group information. 6. Frequency channel information. 7. Channel frequency information.	8. Antenna A/B information. 9. Transmitter battery level indicator. 10. Receiver volume output information. 11. Receiver channel audio mute indicator. 12. RF signal display. 13. Audio signal display.

Menu Operation
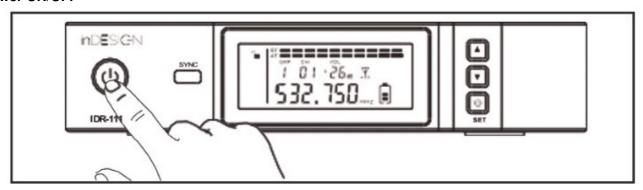
To enter menu functions, press the SET ⚙ button twice. Menu function order is shown in the figure below.

Pressing the SET ⚙ button once while in menu functions mode will scroll into the next menu function as illustrated below.
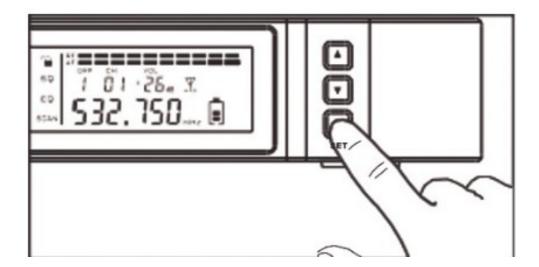

HOME → AUTO SCAN → GROUP/CHANNEL SELECTION

LOCK ← EQUALISER ← SQUELCH
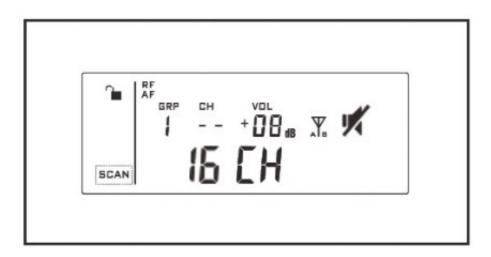
FUNCTIONS OPERATION

Power ON/OFF

Functions Menu

To enter menu functions, press the SET ⚙ button twice. Pressing the set butfon once while in menu functions mode will scroll into the next menu function as illustrated.

Auto Scan

This function performs an interference-free channel search. The receiver SE has 8 available channel groups. 1°: Be K The scan function automatically determines the best interference-free SEAN {5 fH channel available in the immediate area. If your system is mobile it ts recommended to use the auto scan function each time you use your system in a new location.
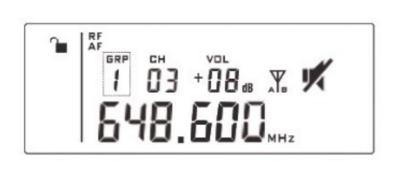
To enter the SCAN mode, press the SET ⚙ button twice. The SCAN symbol on the LCD display should now be flashing.

When the SCAN symbol is flashing on the LCD you are in SCAN mode. Use the UP ▲ /DOWN ▼ buttons to choose the desired Group (1-8). Push the SET ⚙ button once and the receiver channel will enter automatic scanning mode. After this has completed (approx. 1-5s) the scanned frequency will flash on the LCD. Press the SET ⚙ button 5 times to reach the home screen and confirm the setting change.

After the auto scan function is complete you will need to pair the receiver channel and the transmitter. See **Receiver & Transmitter Pairing** section.

Groups/Chanel Selection

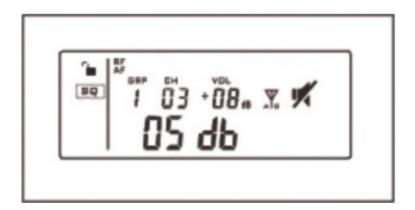This mode allows users fo manually set the desired group and frequency it channel of the wireless system.

To enter this mode from the home screen, press the SET ⚙ button twice Ye OG… then one more time. The GRP number will flash on the LCD when in Group/

Channel Selection mode. Use the uP ▲/DOWN ▼ buttons to select the desired group (1-8 or U group). After your selection has been made push the SET ⚙ button once. The CH number will now flash. Use the ▲ /DOWN ▼ buttons to select the desired channel number. Press the SET ⚙ button five times to return to the home screen and confirm settings.

"U" Group allows users fo choose a specified frequency rather than a predetermined Group and Channel frequency allocation. **Refer to pages 19-20 for the frequency tables.** Note this feature is recommended only for advanced users.
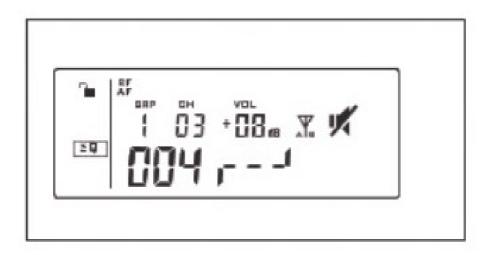
Squelch

In most cases the default SQUELCH setting of 0.5aB is sufficient alt and should not be adjusted. However, if users experience RF noise | interference and disruption to the audio signal users can adjust the SQUELCH to help reduce the interference. Users can choose between 00 — 25cB of squelch. Adjusting SQUELCH would be a last resort in resolving an RF noise interference problem.
It's recommended fo try a different group or channel or use the AUTO scan function fo find an interference free channel.
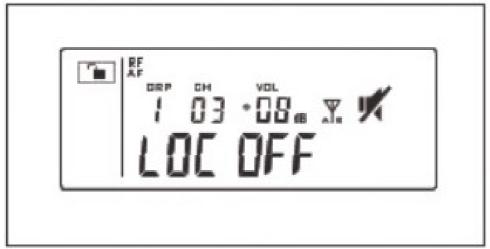
Equaliser

The equalizer provides users with 4 different equalizer options. The we it equalizer can assist in attenuating problem frequency bands should there nf A} "Ane 1% be no other equaliser options further down the signal chain.

To enter **EQUALISER** mode press the SET button twice, then 4 more times. Once in the correct mode, the EQ symbol will flash in the LCD display. Use the UP ▲ DOWN ▼ buttons to select the desired EQUALISER Curve (001-004).

EQ Settings

O01 FLAT 002 LOW CUT 003 HIGH BOOST 004 LOW CUT & HIGH BOOST	Signal is not altered (default se Low frequency is rolled off. Us High frequency boost. Use if th Low frequencies are rolled off s or rumbles and speech intelli

Lock

The LOCK when set to ON prevents users from accessing the functions [EE menu. The only receiver function that remains active when the LOCK Is . ON Is the receiver output volume control.

To enable the LOCK function, press the SET ⚙ button 2 times, followed by another 5 single presses. The LCD will flash LOC OFF. To enable the LOCK use the UP ▲/DOWN ▼ buttons to change the setting to LOC ON.

To confirm the setting and exit the functions menu press the SET ⚙ button once.

To disable the LOCK function, press the SET ⚙ button twice. LOC ON will be displayed on the LCD screen. Press the DOWN ▼ button to disable the lock button. The LCD display will show LOC OFF. Press the SET ⚙ button 2 times to confirm the setting and exit the functions menu.
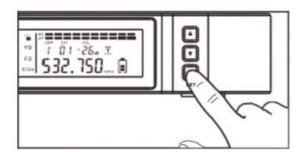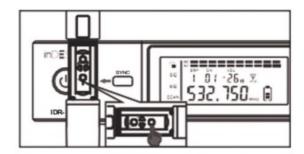
RECEIVER & TRANSMITTER PAIRING

Press the SET ⚙ button once to preform transmitter and receiver infrared frequency sync and paring. Ensure the IR sync window of your transmitter is adjacent to the IR sync window on the receiver before pressing the SET ⚙ button. Ensure both the transmitter and receiver are powered on.
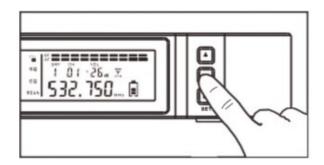When in pairing mode the receiver will display "Ir" on the LCD display.
When the pairing has been completed the receiver will return fo the home screen automatically. Your wireless system Is now paired and ready for use.
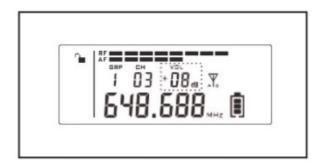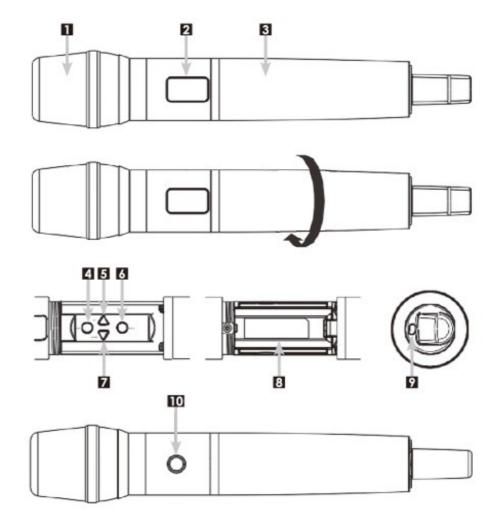

RECEIVER VOLUME ADJUSTMENT

Press the volume ▲ or DOWN ▼ button to adjust the receiver audio output volume. The MIC/LINE switch located on the rear panel allows users to choose the output signal gain structure. MIC output allows max Volume output of +6cB. LINE output allows max Volume output of +18cB.

CONTROLS

1. Microphone Capsule.

2. LCD display screen.

3. Grio handle.

4. SET button. Press button fo scroll through function menu.

5. Up button. Adjust menu items.

6. Sync window. Align with receiver sync window to Synchronise frequencies.

7. Down button.

8. Battery cover and compartment.

9. Power button. Hold 2 seconds to power on/off.

10. MUTE button — Press button to mute audio transmission to receiver. When muted the button will light up. The LCD will also show "MUTE" status.

Documents / Resources

NAS Solutions iDR-222 Wireless Microphone System [pdf] User Manual
DW-3H, DW3H, 2A26KDW-3H, 2A26KDW3H, iDR-111, iDR-222, iDR-HM1, iDT-BP1, iDR-222
Wireless Microphone System, Wireless Microphone System

References

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