

M-MIC *VOICE MATE*

USER MANUAL

DIGITAL WIRELESS MICROPHONE SYSTEM

Single / Dual Channel Receiver

Handheld Transmitter

INTRODUCTION

VOICE MATE SERIES

The Voice mate series

Delivers Your Voice with V-MIC : The Voice Mate Series designed by VL Audio delivers high-quality sound and is designed for professionals in the vocal, speech, concert and live performance industries.

R1 / R2 Receiver

The V-MIC : Voice Mate R1 single channel and R2 dual channel digital wireless microphone receiver features an easy-to-use control and interface for setup, so you can tailor. It all your needs, whether you are a singer, musician, performer or speaker, easily syncs with the wireless transmitter and receivers, efficiently manage radio frequency.

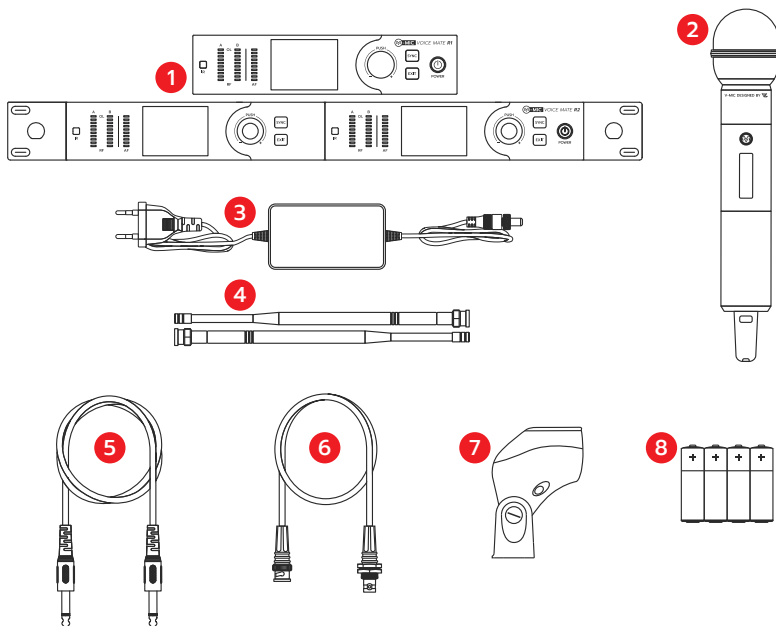
H1 Handheld transmitter

The V-MIC : Voice Mate H1 digital wireless handheld transmitter clear voices and clean, has a smooth and detailed frequency response. designed to integrate seamlessly with Cardioid Dynamic Vocal Microphone, and interchangeable for use with a wide selection.

COMPONENTS

V-MIC : VOICE MATE R1 / R2 RECEIVER

1. R1 Single channel / R2 Dual channel receiver
2. H1 Handheld transmitter
2 x For R2 dual channel
3. Adapter power supply V-MIC
4. Antenna
2 x For R1 single channel / R2 dual channel
5. TS 1/4" Cable (Male to Male)
1 x For R1 single channel / 2 x For R2 dual channel
6. BNC Cable (Male to Female)
2 x Only R2 dual channel
7. Holder
8. AA Battery
4 x For R1 / R2



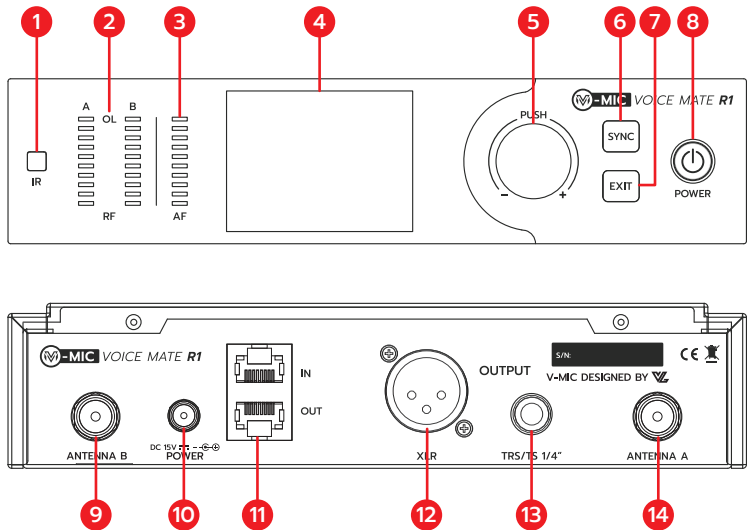
HARDWARE CALLOUTS

V-MIC : VOICE MATE R1
DIGITAL WIRELESS MICROPHONE RECEIVER

V-MIC : VOICE MATE R1 frequency range

F1 : 694.4 - 702.7 MHz

F2 : 748.3 - 757.7 MHz

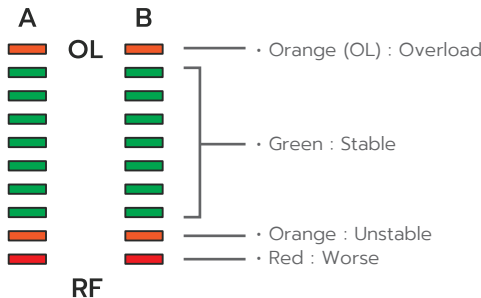


1. IR Port / Sync LED

- Align with the transmitter IR port during an IR sync to program transmitters.
- Flashing LED : IR sync mode.

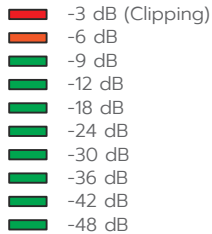
2. Channel A and B radio frequency signal stability LEDs

Indicate the Radio frequency signal stability from the transmitter :



3. Audio input frequency signal stability LEDs

Indicate the audio input frequency signal stability red, yellow, and green LEDs indicate average and peak audio levels.



AF

4. Display

Shows menu options, receiver settings.

5. Control knob

- Change menu parameters.
- Push knob to confirm changes.
- Hold 2 Second to lock or unlock.

6. Sync button

Press to activate IR sync.

7. Exit button

Press to cancel and exit the current operation.

8. Power button

Powers receiver on or off.

9. Antenna B connector

BNC connector for receiver antenna.

10. Power supply port

Connection point for DC power supply (DC 15V / 1500 mA)

11. RJ45 ports

For connection group scan.

12. XLR Audio output

Balanced (1 : ground, 2 : audio +, 3 : audio -)

13. TRS/TS 1/4" output

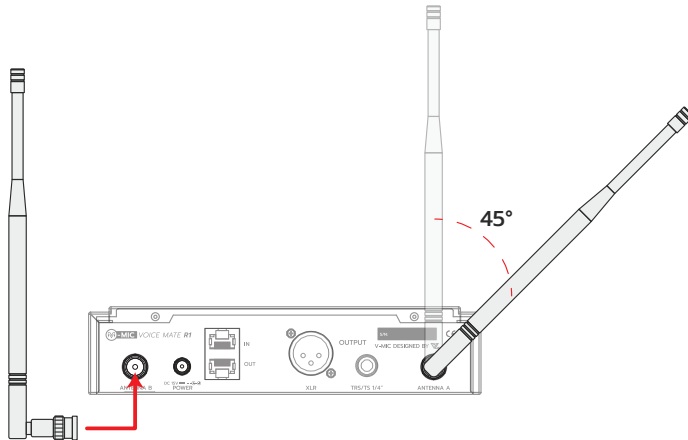
1/4" (6.35 mm) : Balanced (Tip : audio +, Ring : audio -, Sleeve : ground)

1/4" (6.35 mm) : Unbalanced (Tip : audio +, Sleeve : ground)

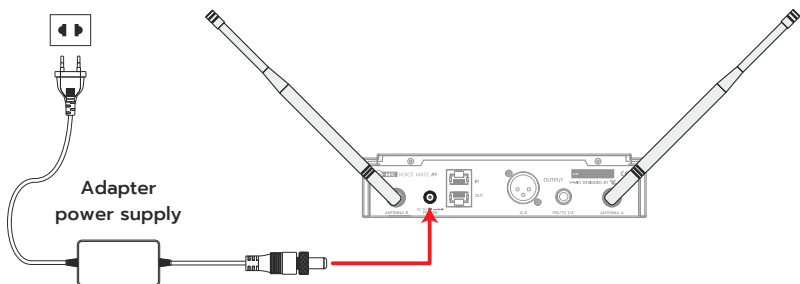
14. Antenna A connector

BNC connector for receiver antenna.

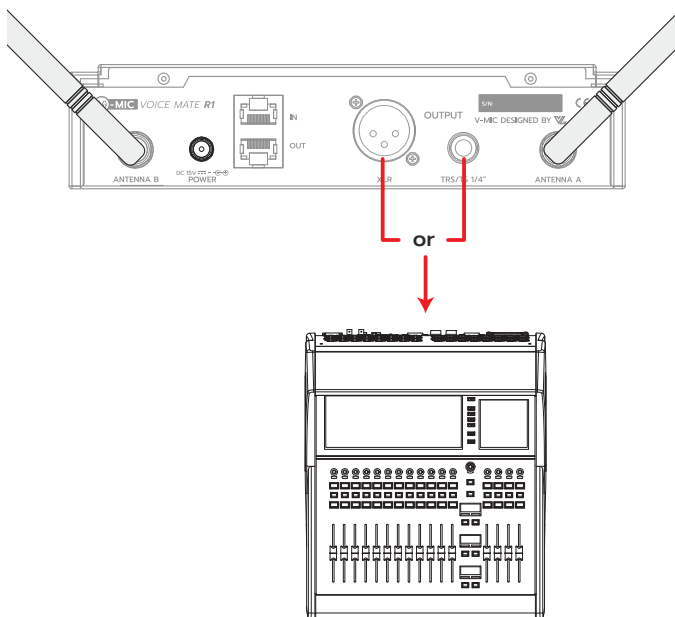
V-MIC : VOICE MATE R1 SETUP



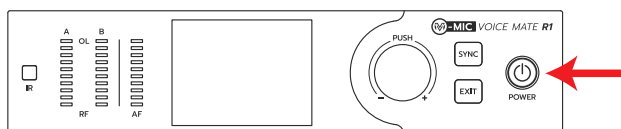
1. Attach the included antennas to the back of the receiver.



2. Connect the power supply to the receiver and plug the cord into an AC power source.



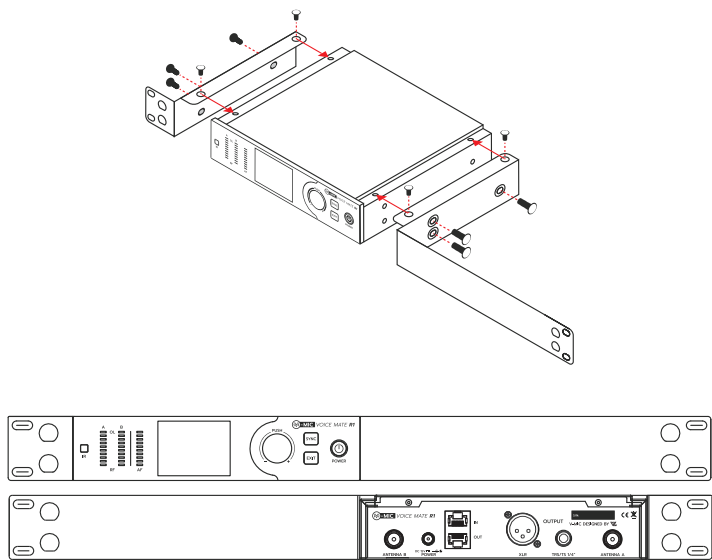
3. Connect the audio output to mixer.



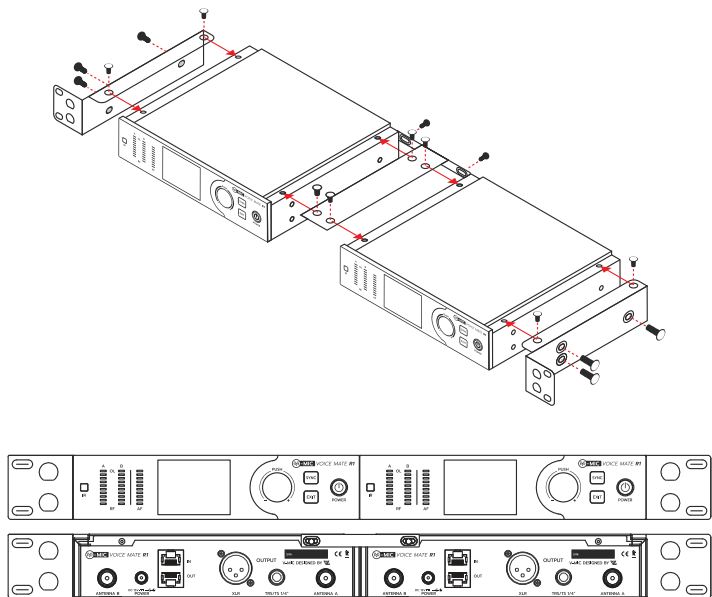
4. Press the power button on the receiver.

MOUNT THE R1 RECEIVER IN A RACK

With rack mounting hardware option 1 :



With rack mounting hardware option 2 :



HARDWARE CALLOUTS

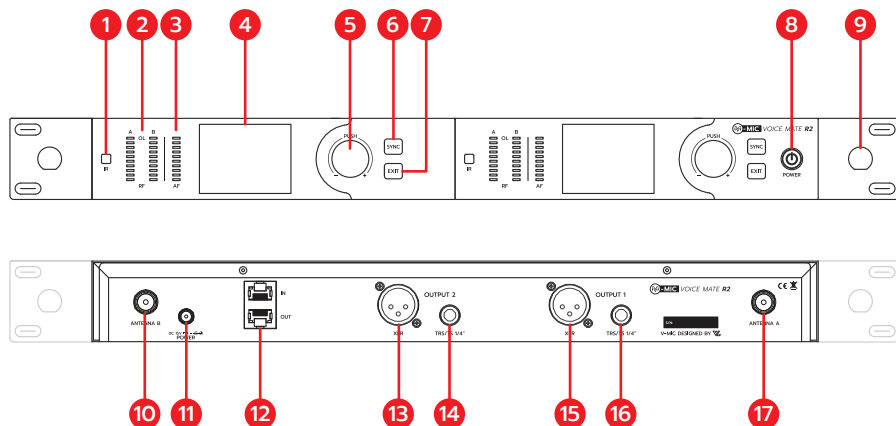
V-MIC : VOICE MATE R2

DUAL CHANNEL DIGITAL WIRELESS MICROPHONE RECEIVER

V-MIC : VOICE MATE R2

Channel 1 frequency range : 694.4 - 702.7 MHz

Channel 2 frequency range : 748.3 - 757.7 MHz



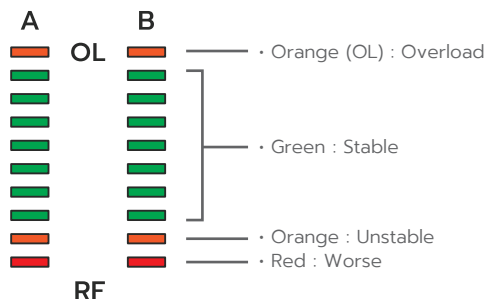
1. IR Port / Sync LED

Align with the transmitter IR port during an IR sync to program transmitters.

- Flashing LED : IR sync mode.

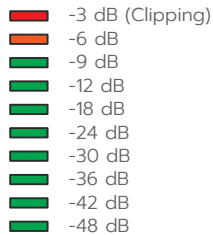
2. Channel A and B radio frequency signal stability LEDs

Indicate the Radio frequency signal stability from the transmitter :



3. Audio input frequency signal stability LEDs

Indicate the audio input frequency signal stability red, yellow, and green LEDs indicate average and peak audio levels.



AF

4. Display

Shows menu options, receiver settings.

5. Control knob

- Change menu parameters.
- Push knob to confirm changes.
- Hold 2 Second to lock or unlock.

6. Sync button

Press to activate IR sync.

7. Exit button

Press to cancel and exit the current operation.

8. Power button

Powers receiver on or off.

9. BNC Hold

10. Antenna B connector

BNC connector for receiver antenna.

11. Power supply port

Connection point for DC power supply (DC 15V / 1500 mA)

12. RJ45 ports

For connection group scan.

13. XLR Audio Output 2

Balanced (1 : ground, 2 : audio +, 3 : audio -)

14. TRS/TS 1/4" Output 2

1/4" (6.35 mm) : Balanced (Tip : audio +, Ring : audio -, Sleeve : ground)

1/4" (6.35 mm) : Unbalanced (Tip : audio +, Sleeve : ground)

15. XLR Audio Output 1

Balanced (1 : ground, 2 : audio +, 3 : audio -)

16. TRS/TS 1/4" Output 1

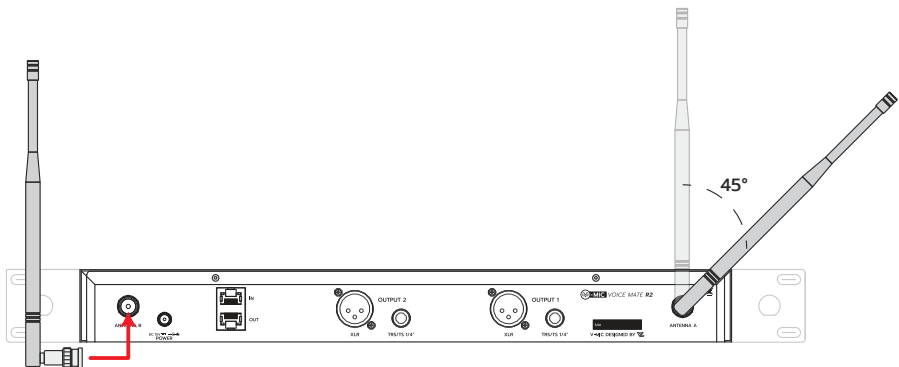
1/4" (6.35 mm) : Balanced (Tip : audio +, Ring : audio -, Sleeve : ground)

1/4" (6.35 mm) : Unbalanced (Tip : audio +, Sleeve : ground)

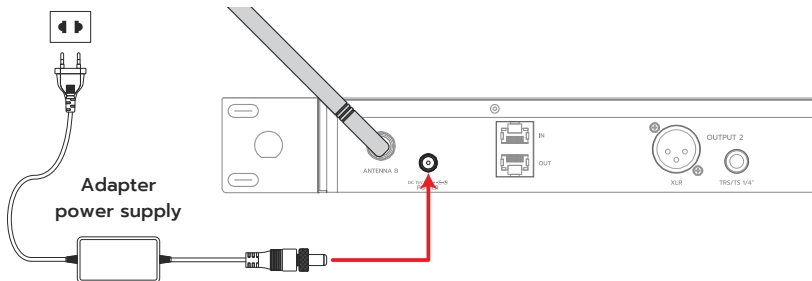
17. Antenna A connector

BNC connector for receiver antenna.

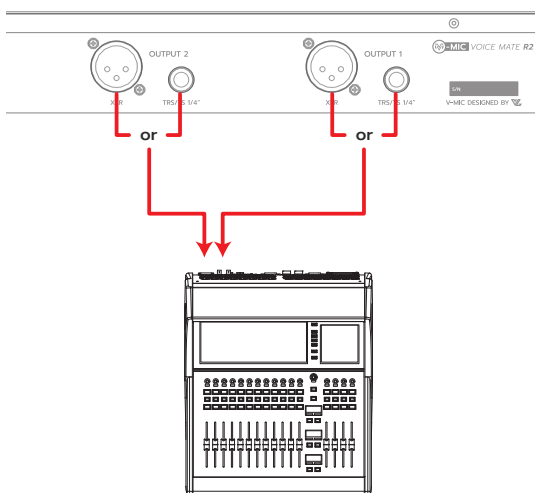
V-MIC : VOICE MATE R2 SETUP



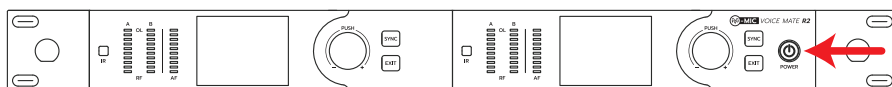
1. Attach the included antennas to the back of the receiver.



2. Connect the power supply to the receiver and plug the cord into an AC power source.



3. Connect the audio output to mixer.

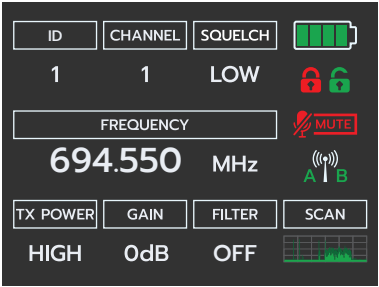


4. Press the power button on the receiver.

DEVICE CONFIGURATION

RECEIVER DISPLAY

Use the control knob to navigate menu screens and confirm selections, use the exit button to return to the previous level.



Home screen symbol

The following screen icons indicate receiver modes or settings.



Transmitter battery status

Show battery status from transmitter.



- 76 - 100% of battery.
- 51 - 75% of battery.
- 26 - 50% of battery.
- 1- 25% of battery.
- 0% of battery or transmitter disconnect.



Lock / Unlock status

Show status lock or unlock setting

- Hold the control knob for 2 Second to lock or unlock.



Mute status

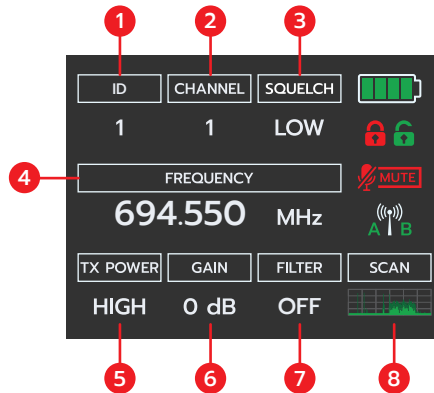
Show mute status from transmitter.



Antenna status

Shows the current active antenna.

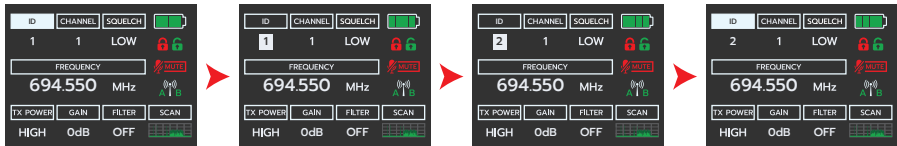
FUNCTION CONFIGURATION



1. ID

Show current and assign ID.

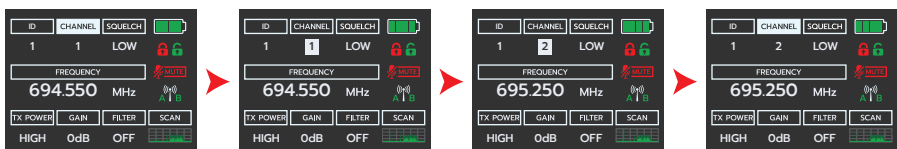
1. Press and rotate the control knob to select "ID"
2. Press the control knob to confirm.
3. Rotate the control knob to assign ID, and press again to confirm.



2. Channel

Show current and change channel.

1. Press and rotate the control knob to select "CHANNEL"
2. Press the control knob to confirm.
3. Rotate the control knob to change, and press again to confirm.



Frequency Band

F1 : 694.4- 702.7 MHz	
Channel	Frequency
1	694.550
2	695.250
3	696.025
4	696.675
5	697.300
6	698.100
7	698.650
8	699.200
9	699.825
10	700.775
11	701.325
12	701.925
13	702.600

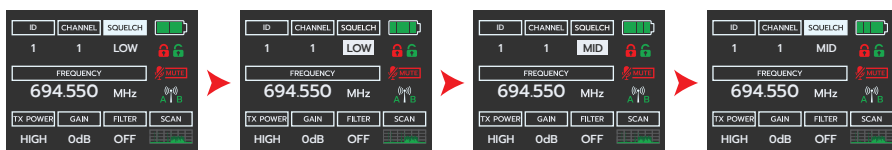
F2 : 748.3 - 757.7 MHz	
Channel	Frequency
14	748.725
15	749.500
16	750.150
17	750.900
18	751.700
19	752.300
20	753.100
21	754.000
22	754.800
23	755.500
24	756.300
25	756.925
26	757.650

3. Squelch

Show current and change squelch.

- Low
- Mid
- High

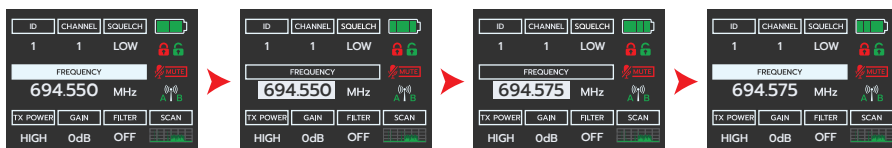
1. Press and rotate the control knob to select "SQUELCH"
2. Press the control knob to confirm.
3. Rotate the control knob to change, and press again to confirm.



4. Frequency

Show current and adjust frequency (step 25 kHz)

1. Press and rotate the control knob to select "FREQUENCY"
2. Press the control knob to confirm.
3. Rotate the control knob to adjust, and press again to confirm.

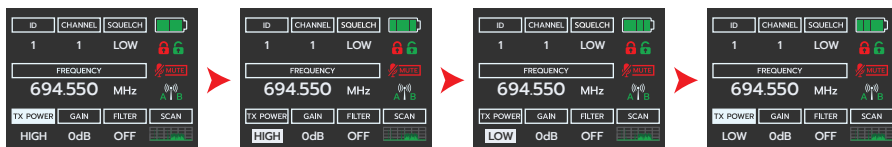


5. Tx Power

Show current and change Tx power level

- Low : 15 mW
- High : 30 mW

1. Press and rotate the control knob to select "TX POWER"
2. Press the control knob to confirm.
3. Rotate the control knob to change, and press again to confirm.

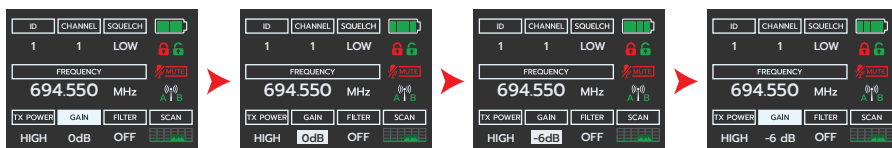


6. Gain

Show current and adjust gain

- Gain adjustment range 0 dB to -26 dB (step 1 dB)

1. Press and rotate the control knob to select "GAIN"
2. Press the control knob to confirm.
3. Rotate the control knob to adjust, and press again to confirm.

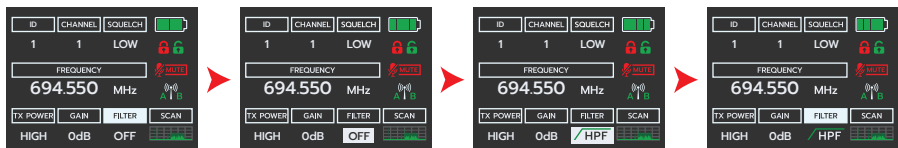


7. Filter

Show current and turn on filter or off.

- Off
- High pass filter 120 Hz

1. Press and rotate the control knob to select "FILTER"
2. Press the control knob to confirm.
3. Rotate the control knob to change, and press again to confirm.



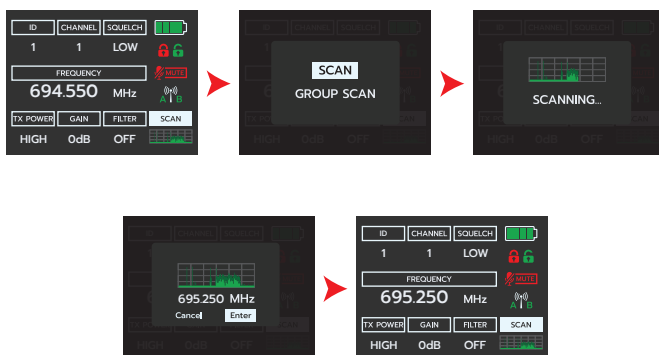
8. Scan

Function scan is perform a channel scan to find the best open frequency.

• Scan :

The receiver scans the RF spectrum for the best available frequency
(Only for the receiver in use)

1. Press and rotate control knob to select "SCAN"
2. Select "SCAN" to start automatic search and it will enter the scanning window.
3. After the scan is complete, available frequency will be displayed.
4. Select enter to use.



• **Group scan :**

Is a automatically finds all available frequencies within a same frequency range.
be automatically deployed to receiver within a same frequency range on
connected via LAN. Selectable modes : Normal and High Density mode.

Normal Mode

The receiver will search for the most efficient frequency band.

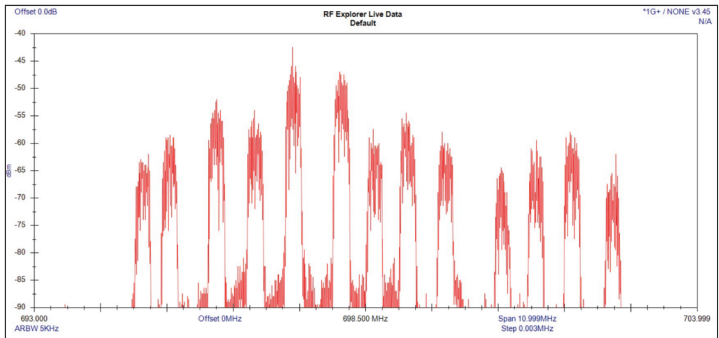
High Density Mode

Creates additional bandwidth for more channels in crowded RF environments
High Density mode is ideal for applications where many channels are needed.

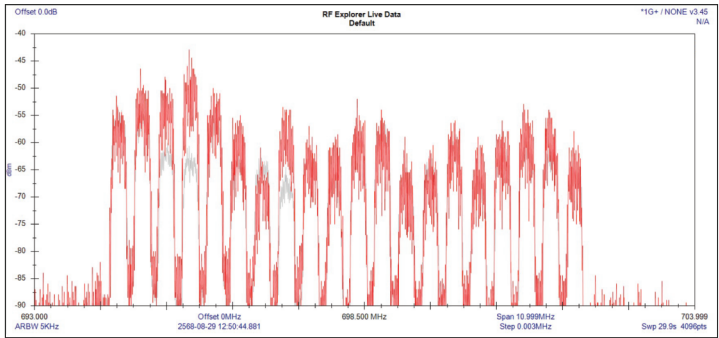
Frequency range	Normal Mode	High Density Mode
F1 : 694.4 - 702.7 MHz	Run up to 13 channels	Run up to 21 channels
F2 : 748.3 - 757.7 MHz	Run up to 13 channels	Run up to 21 channels

F1 : 694.4 - 702.7 MHz

Normal mode

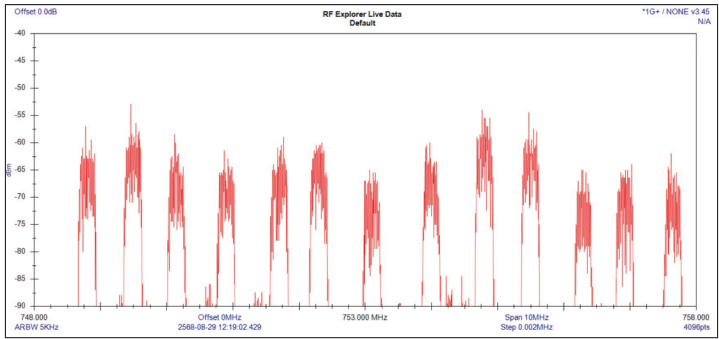


High Density mode

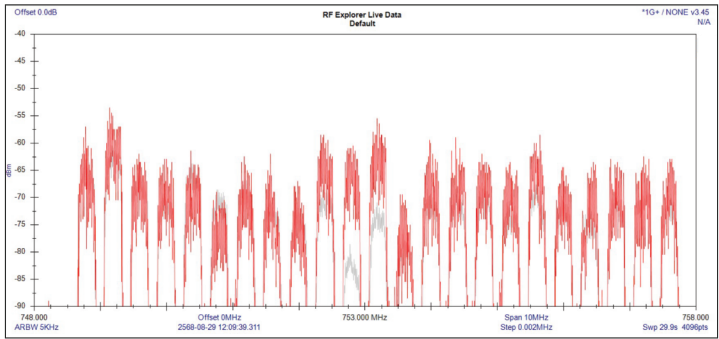


F2 : 748.3 - 757.7 MHz

Normal mode

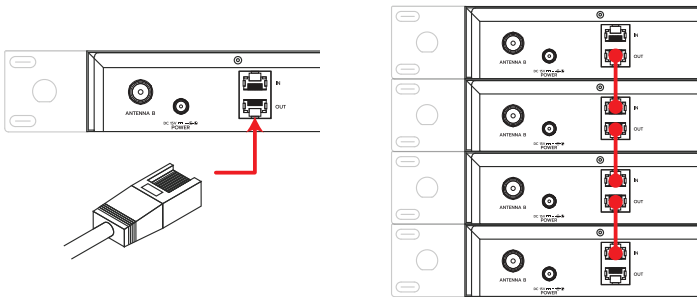


High Density mode

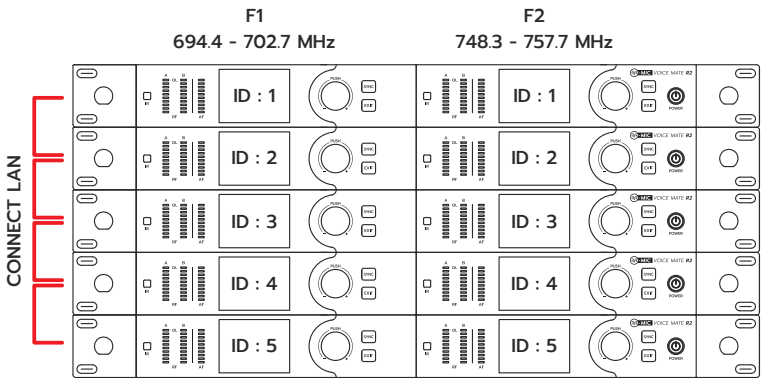


GROUP SCAN

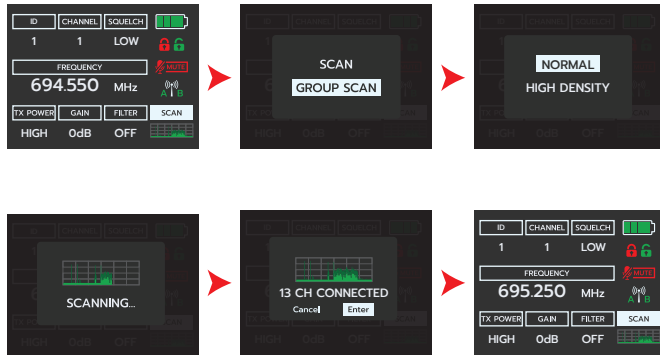
- 1. Connect via LAN cable and use any device within that frequency range (F1 or F2) to operate.



- 2. Assign an ID number to all receivers that will be scan.
(The ID assignment and group scan for F1 and F2 will be done separately.)



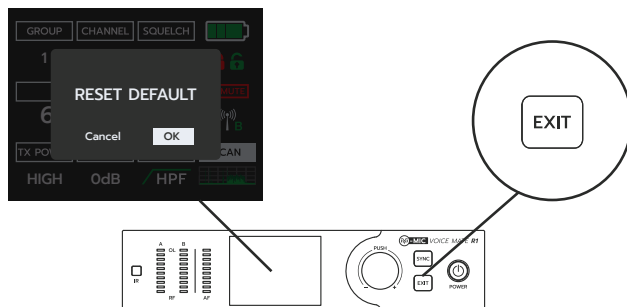
3. Press and rotate the control knob to select "SCAN"
4. Select "Group Scan," then select "Normal" or "High Density" mode to start automatic search. The system will then enter the scan window.
5. After the scan is complete, the number of connected devices will be displayed.
6. Select enter to use.



RESET DEFAULT

This function restores all settings to factory defaults

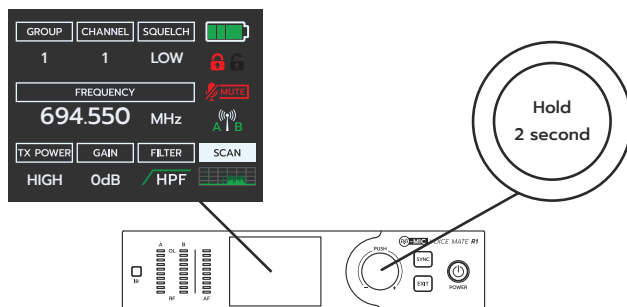
1. Press hold exit button 5 second on the receiver.
2. Will appear reset default window.
3. Select Ok to reset default.



LOCK / UNLOCK

This function is lock Receiver settings.

1. Press hold control knob 2 second on the receiver to lock or unlock
2. Lock and symbol will appear.



Lock :

lock Receiver settings.

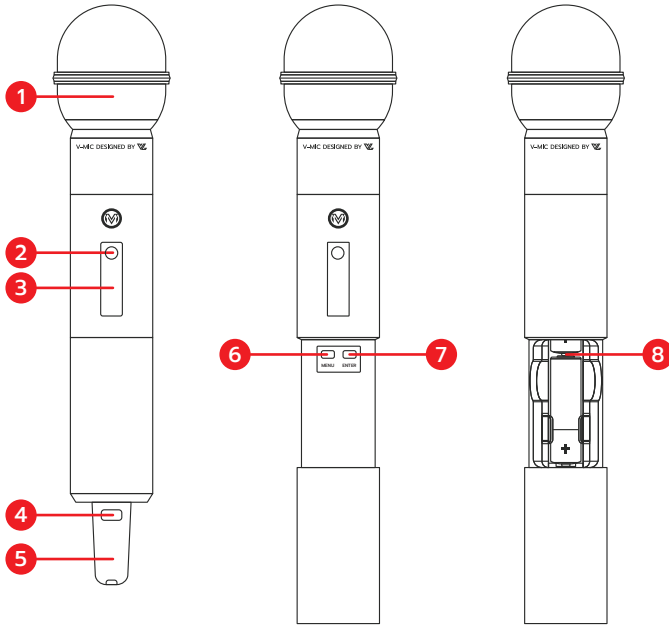


Unlock :

Receiver is unlocked.

V-MIC : VOICE MATE H1

DIGITAL WIRELESS HANDHELD TRANSMITTER



1. VOICE MATE CAPSULE

2. IR port

Align with the transmitter IR port during an IR sync to program transmitters.

3. Display

View menu screens and settings. Press any control button to activate the display.

4. Power button

Power the transmitter on or off.

- Hold 2 Second to power the transmitter on or off.
- Hold 1 Second to mute or unmute.

5. Handheld integrated antenna

For RF signal transmission.

6. Menu button

Use to navigate between menu screens.

7. Enter button

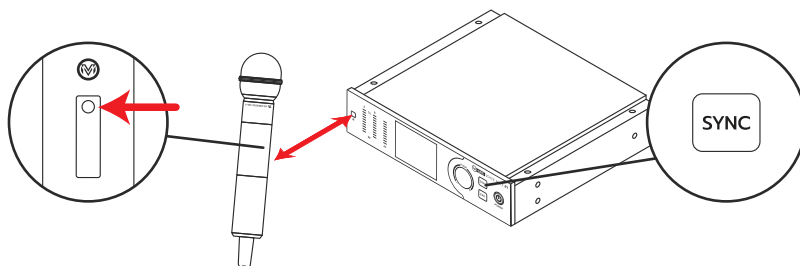
Press to confirm and save parameter changes.

8. Battery compartment

Requires 2 AA batteries.

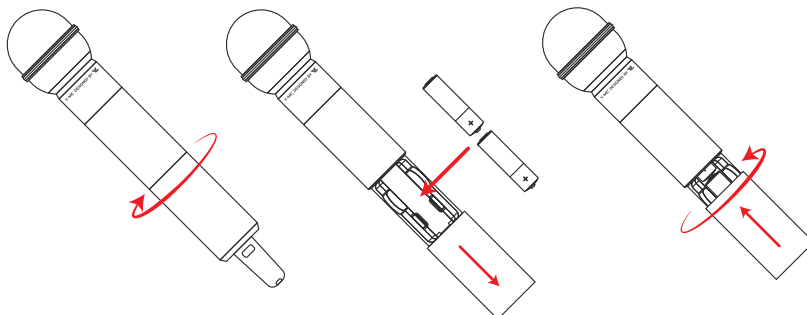
SYNC A TRANSMITTER WITH THE RECEIVER

1. Press sync button on the receiver.
2. Align the infrared (IR) ports on the transmitter and receiver.



BATTERY INSTALLATION

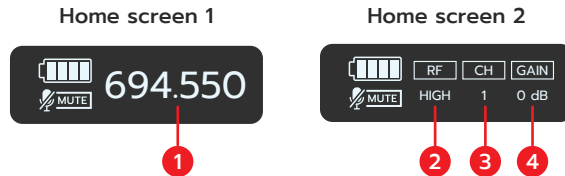
1. Remove the battery cover to access the battery compartment.
2. Place a 2 AA batteries in the compartment.
3. Replace the battery cover.



DEVICE CONFIGURATION

TRANSMITTER DISPLAY

Use the menu button to navigate menu screen, use enter button to change home screen and confirm selections.



Home screen symbol

The following screen icons indicate transmitter modes or settings.



Transmitter battery status

Show battery status



- 76 - 100% of battery.
- 51 - 75% of battery.
- 26 - 50% of battery.
- 1- 25% of battery.



Mute status

Show mute status

- Hold the power button for 2 Second to mute or unmute

1. Frequency

Show current transmitter frequency.

2. RF

Show current RF power level.

3. Channel

Show current transmitter channel.

4. Gain

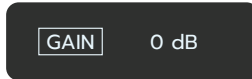
Show current transmitter gain.

FUNCTION CONFIGURATION

- Use the menu button to navigate menu screen and selects.
- use enter button to confirm selections.

Transmitter menu list :

- Gain
- RF Power



1. Gain

Adjusts the transmitter gain. (Default : 0 dB)

- Gain adjustment range -12 dB to +12 dB (step 3 dB)



2. RF Power

Adjusts the transmitter RF Power. (Default : High)

- Low : 15 mW
- High : 30 mw

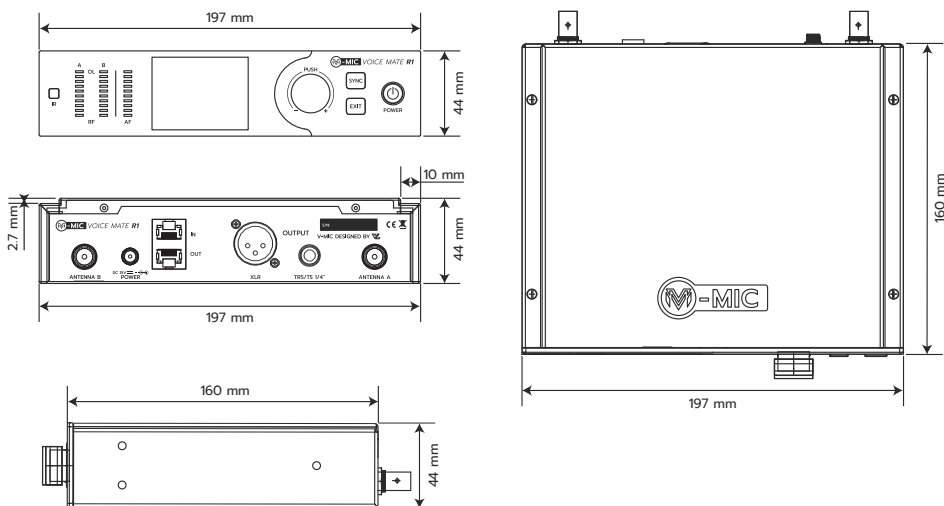
SPECIFICATIONS

V-MIC : VOICE MATE R1

DIGITAL WIRELESS MICROPHONE RECEIVER

FEATURES

- Frequency response 20 Hz to 20 kHz.
- Digital audio converter 48 kHz 24 bit.
- RF tuning step 25 kHz
- Dynamic range >106 dB @1% THD
- Maximum output +18 dBu
- Working range 80 m
- Frequency management with group scan function.



TECHNICAL SPECIFICATION

SYSTEM

RF Carrier Frequency Range	(F1) 694.4 - 702.7 MHz (F2) 748.3 - 757.7 MHz
Available Channels	42 Channel (High Density), 26 Channel (Normal) (F1) : 21 Channels (High Density), 13 Channels (Normal) (F2) : 21 Channels (High Density), 13 Channels (Normal)
Modulation Mode	Differential Quadrature Phase Shift Keying (DQPSK)
Working Range	80 m
RF Tuning Step Size	25 kHz

ANTENNA

Antenna	2 x Antenna True Diversity
RF Input Connector Type	BNC
BNC Impedance	50 Ω

AUDIO

Gain Adjustment Range	-26 to 0 dB in 1 dB steps
Dynamic Range	>106 dB @1% THD
Audio Frequency Response	20 Hz - 20 kHz
Digital Audio Converter	24 Bit, 48 kHz
Latency	<2.5 ms
Output Connector Type	XLR : Balanced 1/4" (6.35 mm) : Balanced 1/4" (6.35 mm) : Unbalanced
Maximum Output	+18 dBu

NETWORK

Network Connector	2 x RJ45
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POWER

Power Requirements	DC 15V / 1500 mA
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SIZE

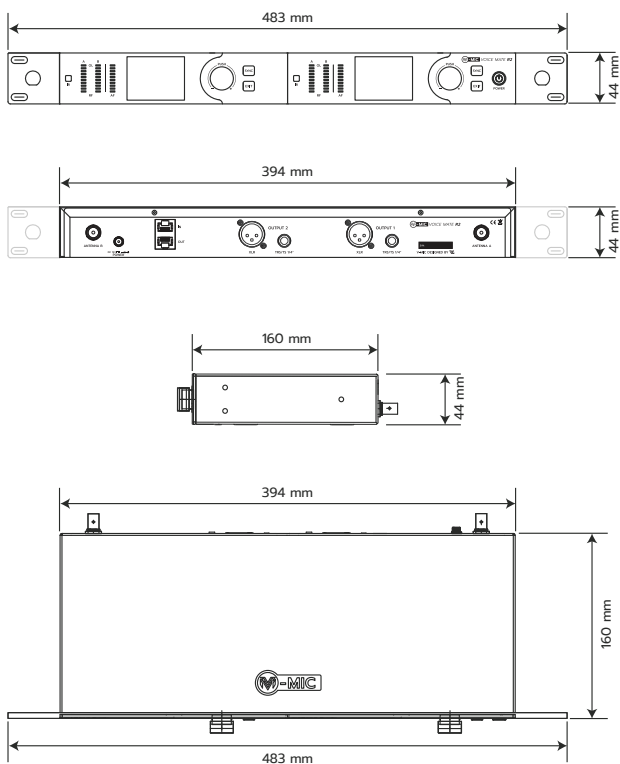
Height	44 mm
Width	197 mm
Depth	160 mm
Weight	0.96 kg

V-MIC : VOICE MATE R2

DUAL CHANNEL DIGITAL WIRELESS MICROPHONE RECEIVER

FEATURES

- Frequency response 20 Hz to 20 kHz.
- Digital audio converter 48 kHz 24 bit.
- RF tuning step 25 kHz
- Dynamic range >106 dB @1% THD
- Maximum output +18 dBu
- Working range 80 m
- Frequency management with group scan function.



TECHNICAL SPECIFICATION

SYSTEM

RF Carrier Frequency Range	694.4 - 702.7 MHz and 748.3 - 757.7 MHz
Available Channels	42 Channel (High Density), 26 Channel (Normal) Channel 1 : 694.4 - 702.7 MHz <i>21 Channels (High Density), 13 Channels (Normal)</i> Channel 2 : 748.3 - 757.7 MHz <i>21 Channels (High Density), 13 Channels (Normal)</i>
Modulation Mode	Differential Quadrature Phase Shift Keying (DQPSK)
Working Range	80 m
RF Tuning Step Size	25 kHz

ANTENNA

Antenna	2 x Antenna True Diversity
RF Input Connector Type	BNC
BNC Impedance	50 Ω

AUDIO

Gain Adjustment Range	-26 to 0 dB in 1 dB steps
Dynamic Range	>106 dB @1% THD
Audio Frequency Response	20 Hz - 20 kHz
Digital Audio Converter	24 Bit, 48 kHz
Latency	<2.5 ms
Output Connector Type	2 x XLR : Balanced 2 x 1/4" (6.35 mm) : Balanced 2 x 1/4" (6.35 mm) : Unbalanced
Maximum Output	+18 dBu

NETWORK

Network Connector	2 x RJ45
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POWER

Power Requirements	DC 15V / 1500 mA
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SIZE

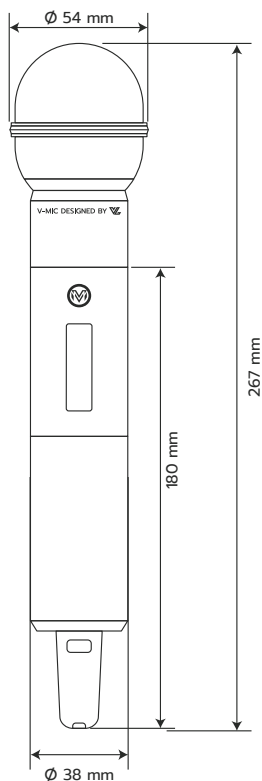
Height	44 mm
Width	483 mm
Depth	160 mm
Weight	1.76 kg

V-MIC : VOICE MATE H1

DIGITAL WIRELESS HANDHELD TRANSMITTER

FEATURES

- Frequency response 20 Hz to 20 kHz.
- Digital audio converter 48 kHz 24 bit.
- Dynamic range >106 dB @1% THD
- Easy pairing of transmitters and receivers over scan and IR sync.
- Up to 16 hours (Low), Up to 8 hours (High) from 2 x AA battery.



TECHNICAL SPECIFICATION

SYSTEM

RF Carrier Frequency Range	694.4 - 702.7 MHz and 748.3 - 757.7 MHz
Modulation Mode	Differential Quadrature Phase Shift Keying (DQPSK)
Working Range	80 m
RF Power Output	High 30 mW, Low 15 mW

AUDIO

Microphone Type	Dynamic
Polar pattern	Cardioid Directional
Gain Adjustment Range	±12 dB in 3 dB steps
Dynamic Range	>106 dB @1% THD
Audio Frequency Response	20 Hz - 20 kHz
Digital Audio Converter	24 Bit, 48 kHz

POWER

Battery Included	2 x 1.5V AA battery
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SIZE

Diameter	54 mm
Height	267 mm
Weight	0.34 kg



RoHS
-LEAD FREE



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