Relacart®

—— Real Sound Always

BG-24

True Diversity
Wireless Microphone

Quick guide
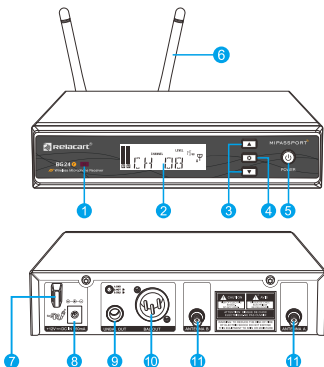
1 Infrared Data Transmission
   Window (iR)
2 LCD display screen
3 Select button
4 Set button
5 Power switch
6 SMA antenna

7 Anti pull device
8 DC power socket
9 Φ6.3mm parallel
   audio output
10 XLR balanced
   audio output
11 RF antenna input

BG-24 Wireless handheld microphone

1. Microphone pickup module
2. Display
3. Power switch
4. Microphone handle
5. IR synchronization window
6. Battery compartment
7. Charging contact
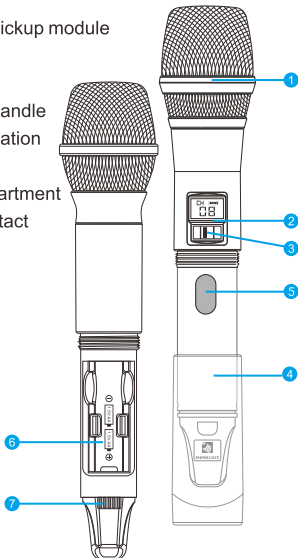
BG-24 Wireless bodypack transmitter
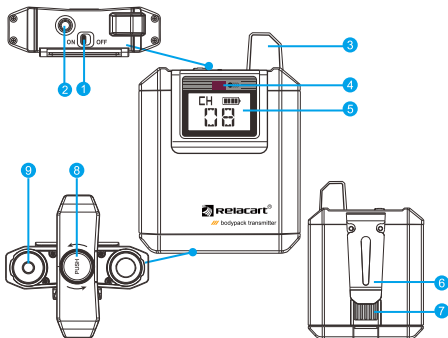
1. Power switch
2. Audio input socket
3. Transmitting antenna
4. IR synchronization window
5. Display
6. Fixed back clip
7. Charging contact
8. Battery compartment open button
9. Battery compartment

Charging stand(Optional)

1. Power indicator light
2. Charging status indicator light
3. Charging cabin
4. Charging dock level connection port
5. Charging dock connection accessory slot
6. Charging dock connector
7. DC IN power socket
8. Reset hole
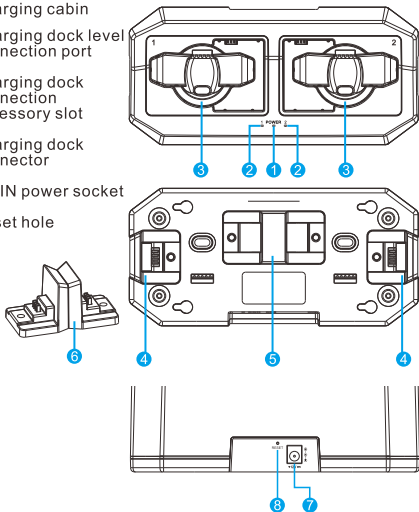
Charging stand usage

When charging, put the transmitter with the NiMH rechargeable battery installed into the charging compartment, as shown in the figure. (It cannot be charged if non-rechargeable batteries are installed)
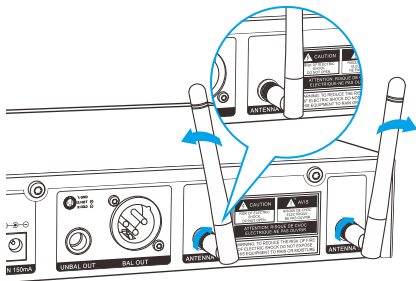
LED lights up to indicate battery status

1 POWER 2

Charging Status   Power   Charging Status
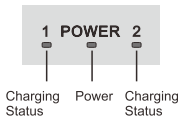
	Status	Indicator
1/2 Charging Dock	Charging	Red Slow Flashing
	Charging Completed	Green
	Error/Abnormal	Red Fast Flashing
Power	Power supply is normally connected	Red
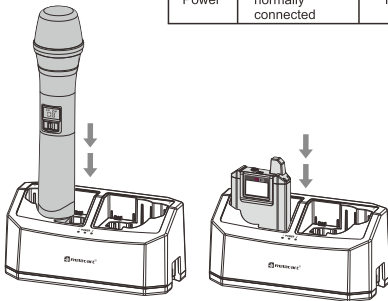
SMA antenna installation
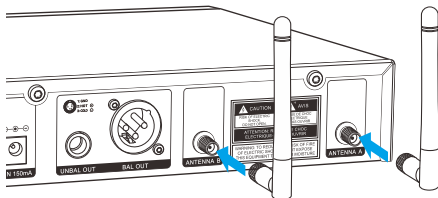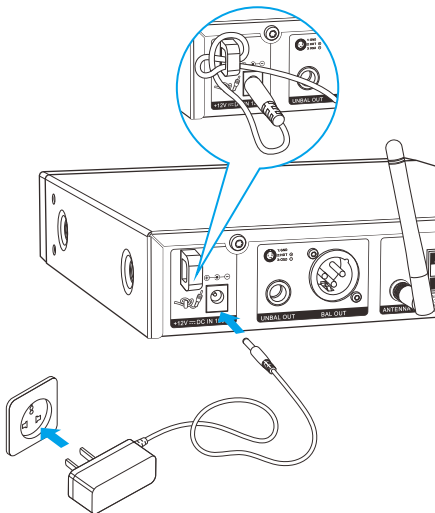
Use a power adapter that meets local regulatory requirements

XLR-3

6.3 mm

◀ OR ▶

Mixer
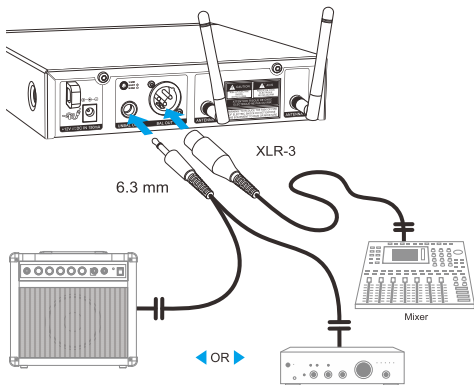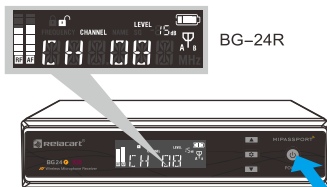
BG–24R

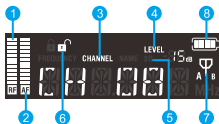Short press "ON"
Long press "OFF"

BG-24H

ON ⟷ OFF

ON ⟷ OFF
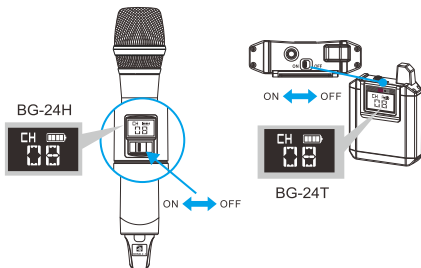
BG-24T

Display

Receiver

Transmitter

1. RF signal
2. Audio output signal
3. Channel
4. Volume level
5. Volume level value
6. Receiver keyboard lock
7. RF antenna status
8. Transmitter battery level
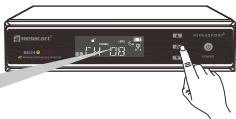
Long press

CHAN → Short press → 01 → Short press → 14 → Short press → STORED

Short press ↕

(SYNC) → Short press → 1 → Short press → 7 → Short press → STORED

Short press ↕

LEVEL → Short press → LEVEL → Short press → LEVEL → Short press → STORED

Short press ↕

LOCK → Short press → ON → Short press → OFF → Short press → STORED

Short press ↕

CRYPOT → Short press → ON → Short press → OFF → Short press → STORED

11

Automatic frequency search

Long press"▲" 3 seconds

After entering the "AFS" function for automatic frequency scanning, a channel search interface will appear.

Find the current interference -free frequency

Synchronous frequency matching

Long press " ⚙ " 3 seconds

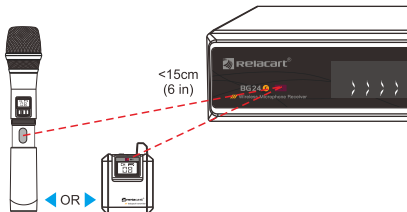Short press " ▼ " to select the "SYNC" menu

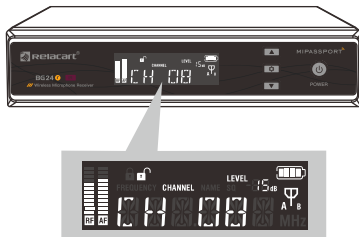Short press " ⚙ " to confirm and start frequency matching

During the frequency matching process, the receiver's iR frequency matching light flashes

② <15cm (6 in)

◀ OR ▶

Align the infrared frequency matching iR windows of the transmitter and receiver

③
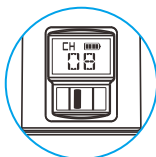
Both the receiver and transmitter display the same frequency after completing the frequency matching

BG-24T

BG-24H

After successful channel synchronization between the transmitter and receiver, the channels of the transmitter and receiver are consistent; When using a transmitter to speak, the "AF" signal on the display screen indicates that there is audio output when it jumps.

④

BG-24T

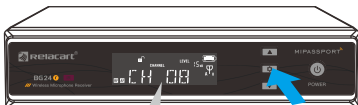BG-24H

Attention: When using iR infrared frequency matching, the cover of the handheld microphone must be opened; Otherwise, it will affect the frequency function.

Audio output adjustment

Long press" ✿ " 3 seconds

Short press " ▼ " to select the "LVEEL" menu

Press " ✿ " to enter the audio level setting
and adjust it sequentially (there are 9
levels to choose from), press " ✿ " to
complete.

Long press"⚙" 3 seconds

Short press "▼" to select the "LOCK" menu

Press "⚙" to select keyboard lock "ON"
or unlock "OFF", select "ON" and press
"⚙" to lock the receiver and prevent any
operation.

Long press"⚙" 3 seconds


Short press "▼" to select the "CRYPOT" menu

Press "⚙" to select keyboard lock "ON"
or unlock "OFF", select "ON" and press
"⚙" confirm

When turn on AES-256 bit encryption, which
provides unbreakable privacy protection and
eliminates stray RF interference by allowing only
encrypted signals to be transmitted to the receiver.
The system delay is 3.8ms after the encryption
function is turned on.

*After setting this function, you need to
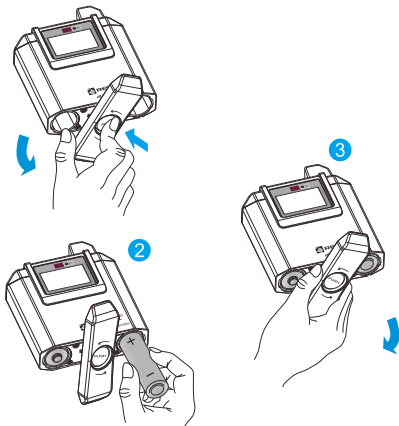 re-synchronize the frequency.
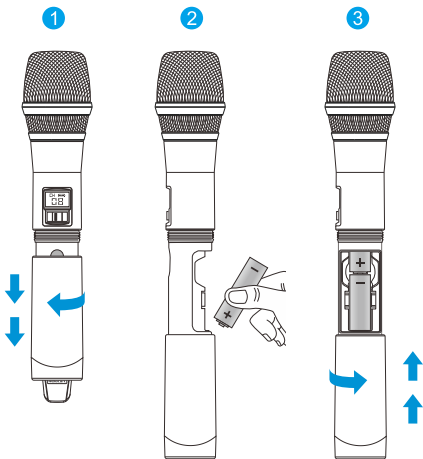
2 AA batteries
(pay attention to polarity markings)

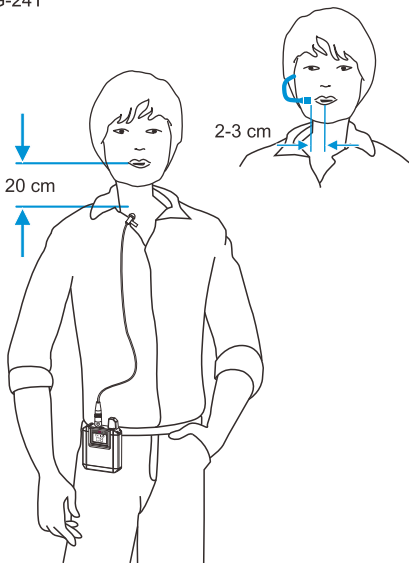**1** Press' PUSH 'and rotate the battery door counterclockwise at the same time

2

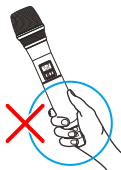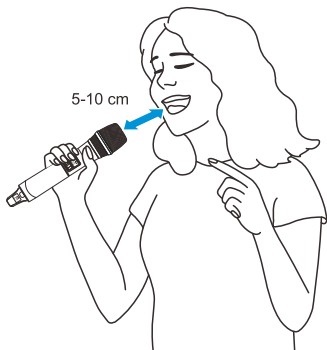**3**

2 AA batteries
(pay attention to polarity markings)

BG-24T

2-3 cm

20 cm

BG-24H

5-10 cm

specifications

Model: BG-24 Receiver

|	
Receiving Channel:	Single channel
Reception Method:	Antenna diversity/frequency diversity/Time Diversity
Audio Format:	Relacart proprietary digital audio format
Wireless Carrier Frequency:	2.4-2.48GHz
Compatible Channels:	≥ 14
Display Channel:	LCD
Effective Distance:	70 meters (open space)
Sampling:	24bit/48kHz
Encryption:	AES-256
Delay:	≤2.9ms, ≤ 3.8ms (encryption enabled)
Dynamic Range:	≥ 110dB (A-weighted)
Frequency Response:	20Hz-20kHz(± 1dB)
Comprehensive T.H.D:	<0.1% @ 1KHz
System Gain Adjustment:	(-18~18 dB)
Audio Output Interface:	XLR balanced output, 1/4 "unbalanced output
Power Supply:	DC/12V
Current Load:	≤150mA
Dimensions(mm):	200 (L) x 200 (D) x 44 (H)

Model: BG-24 Transmitter

Audio Format:	Relacart proprietary digital audio format
Wireless Carrier Frequency:	2.4-2.48GHz
Transmission Method:	Frequency diversity
Modulation Method:	GFSK
Transmission Rate:	1Mbps
Sampling:	24bit/48kHz
Compatible Channels:	≥ 14
Display Channel:	OLED
Dynamic Range:	≥ 110dB (A-weighted)
Frequency Response:	20Hz-20kHz (± 1dB)
Sensitivity:	≤ -45dB
RF Power:	≥ 50mW
Power Supply:	Alkaline battery (AA) x 2
Current Load:	145mA (typical value)
Battery Life:	≥ 8 hours
Handheld microphone Dimensions(mm):	55 (Φ) × 269 (L)
Bodypack transmitter Dimensions(mm):	65 (L) x 21.3 (W) x 75.5 (H)

Online Manual
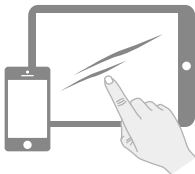
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