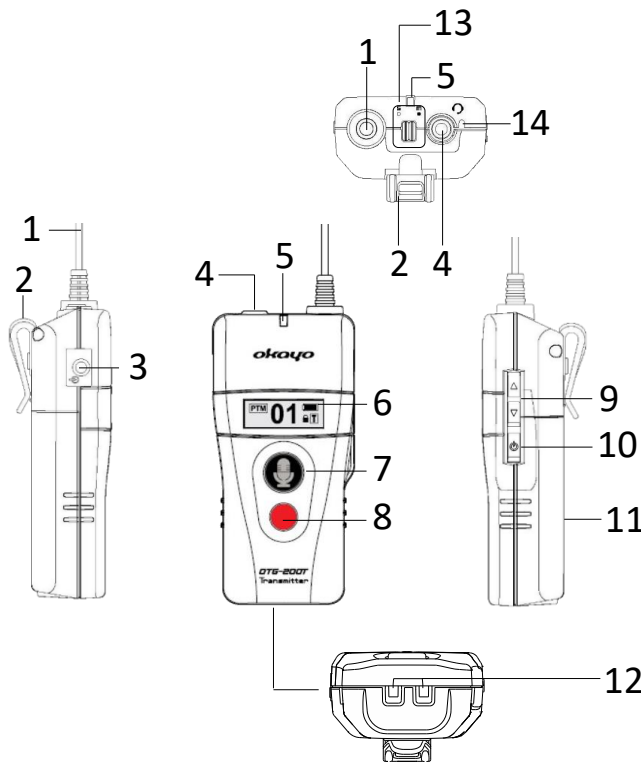


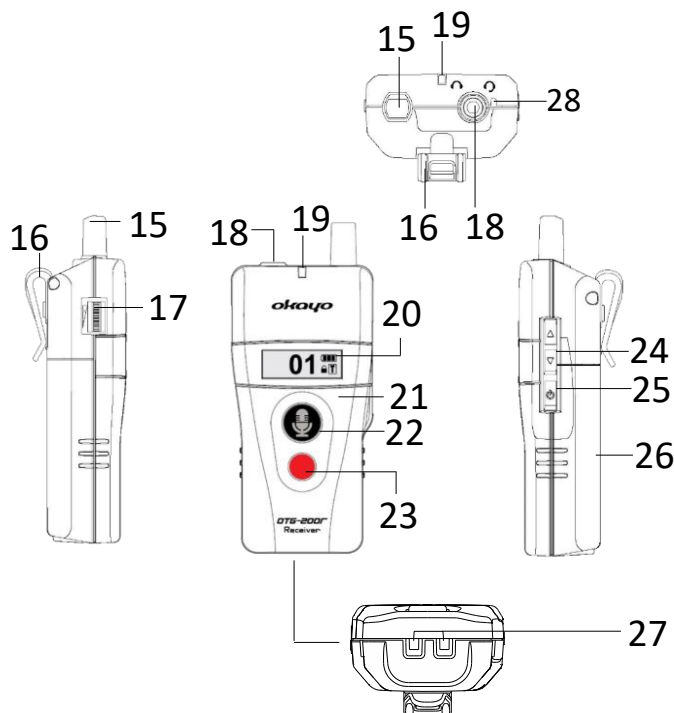
OKAYO OTG-200 SYSTEM DIAGRAM

• Transmitter (Tx)



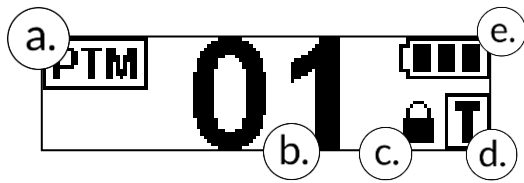
1. Antenna
2. Clip on strap
3. 3.5mm TRS1 audio line jack
4. Headphone/microphone jack splitter 3.5 mm TRRS2
5. Status/signal indicator
6. 0.90" OLED display
7. Microphone on/off button
8. Call button
9. Up/down button
10. Power button
11. Battery holder³
12. Charging contacts⁴
13. Switch (master/slave)
14. Built-in microphone

• Receiver (Rx)



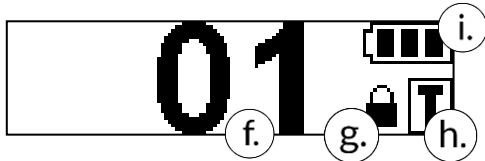
15. Antenna
16. Clip on strap
17. Volume potentiometer
18. Headphone/microphone jack splitter 3.5 mm TRRS2
19. Status/signal indicator
20. 0.90inch OLED display
21. Built-in vibrator
22. Mic on/off button (only Push-To-Talk)
23. Alarm-release button
24. Up/down button
25. Power button
26. Battery holder³
27. Charging contacts⁴
28. Built-in microphone

● Transmitter Display (Tx)

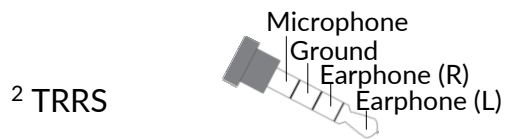
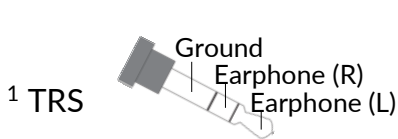


- a. Mic mode
- b. Channel number
- c. Channel change lock
- d. Communication mode (G, T, D)
- e. Battery status⁵

● Receiver Display (Rx)



- f. Channel number
- g. Channel change lock
- h. Transmitter communication mode (G, T, D)
- i. Battery status⁵



³ Powered by 2x AA alkaline batteries or 2x Ni-MH AA rechargeable batteries.

⁴ Wide range of chargers available for bulk charging.

⁵ Battery charge indicator.



LED indicator

	Constant blue	Signal reception
	Slow flashing blue	No signal in receiver
	Fast flashing blue	Advanced operations in progress
	Flashing or constant red	Low battery
	No light	Device turned off

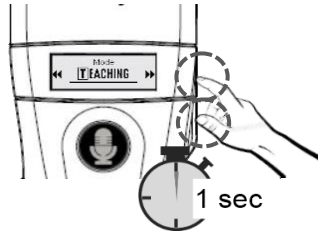
Microphone indicator

	Green	Microphone on
	Red	Microphone muted
	Flashing red	Roll-Call/ Alarm /Out-Of-Range Alarm activated
	No light	Cannot speak through microphone

GROUP PAIRING WITH ADVANCED FUNCTIONS

MAKE SURE DEVICES ARE TURNED OFF BEFORE PAIRING

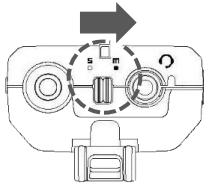
STEP 1



Select the communication mode in the transmitter. Press and hold ∇ and the power button to launch the transmitter. Next, select the communication mode (see table below) using $\triangle \nabla$. Press the power button to confirm the selection.

GUIDING	Only 1 transmitter per channel.
TEACHING (default)	2 transmitters per channel.
DISCUSSING	Unlimited number of transmitters per channel.

STEP 2



Make sure the switch on the transmitter is in “m” position.

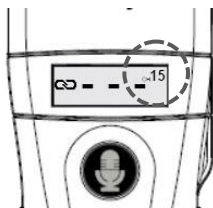
GUIDING	Switch in the transmitter set in “m” position - one-way communication. Switch in the transmitter set in “s” position - the possibility of feedback communication for receiver users (1 receiver at the same time).
TEACHING	Switch in the transmitter is set to “m” position for the main transmitter, and to “s” position for the additional transmitter. The user of transmitter “s” can enable feedback for the receiver users (1 receiver at the same time).
DISCUSSING	Switch is not applicable for this mode. Any 2 transmitter users in the group can talk to the group. Receiver users can only listen.

STEP 3



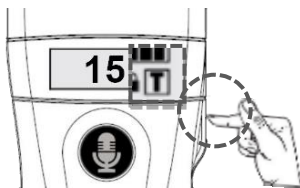
After selecting the communication mode, **turn off the transmitter**. Next, restart by pressing the Call button and the power button at the same time to start pairing.

STEP 4



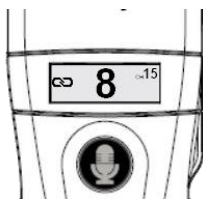
Use \triangle ∇ to select a channel (within 3 seconds) and validate by pressing the power button. **The transmitter will start sending a pairing signal to the receivers.**

STEP 5



Start the receivers one by one by pressing the power button. **The same communication mode as the transmitter will appear on the receiver display. The receivers are ready for operation.**

STEP 6



(TURNING ON SECOND TRANSMITTER for TEACHING mode) Repeat steps 1 ~ 4 to turn on transmitter no. 2 and select the same channel number as in transmitter no. 1. **Transmitter no. 2 will automatically download a paired list of receivers.**

STEP 7



Briefly press the Call button on the transmitter or two transmitters*.

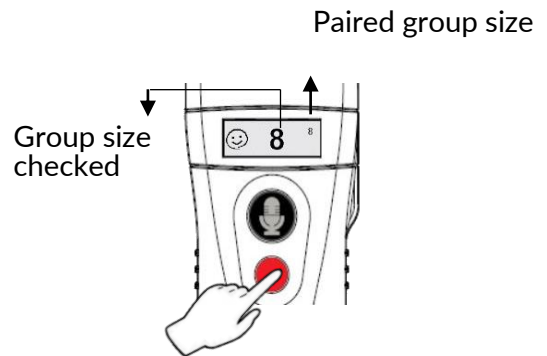
Your group is ready to go!

*Set the transmitter role after pairing accordingly. See STEP 2.

ADVANCED FUNCTIONS (NOT FOR DISCUSSING MODE)

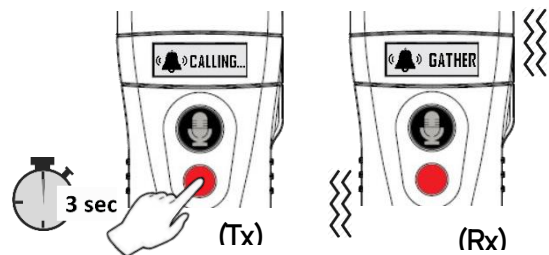
- **Check group presence**

Briefly press the Call button to check or exit.



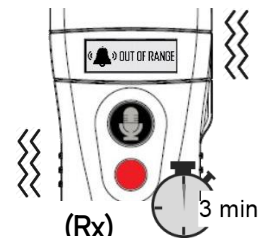
- **Release alarm in receivers**

Press and hold the Call button for 3 seconds to activate the alarm. The receiver will vibrate for 30 seconds. Press the Call button on Tx and Rx again to turn it off.



- **Alarm signal loss**

Rx will be alerted with a 30-second vibration if it loses the signal from the Tx transmitter for 3 minutes. Stop the alarm by returning to the transmitter range or by briefly pressing the Call button on the Rx.



GENERAL OPERATING RULES

- **Communication via Rx receiver**

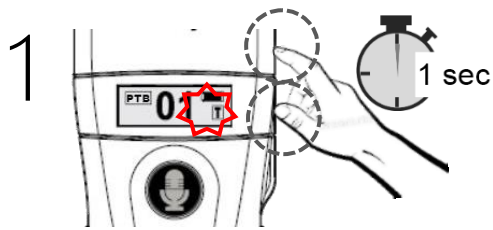


The receiver user can communicate with the group via a PTT (Push-To-Talk) microphone. Press and hold the mic button. The microphone button is green, which means the group can hear you.

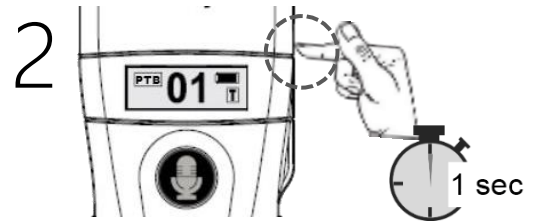
Note:

1. You can use the built-in microphone in the receiver (the optimal distance from the receiver is 3 ~ 5 cm) or connect a headset.
2. Note that the transmitter has allowed bidirectional communication for the receivers.

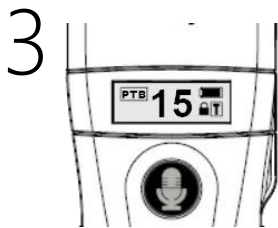
- **Manual channel number change**



Press and hold \triangle and ∇ simultaneously until \mathbb{L} disappears from the display.



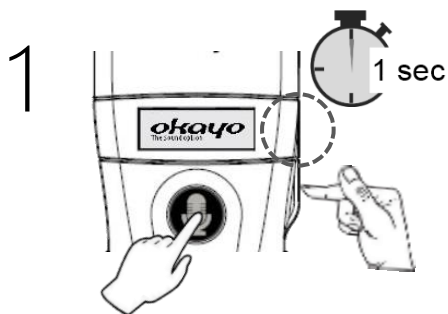
Select a new channel with \triangle ∇ .



The new channel will be confirmed automatically after 1 second.

- **Remote group channel unification without advanced features (optional)**

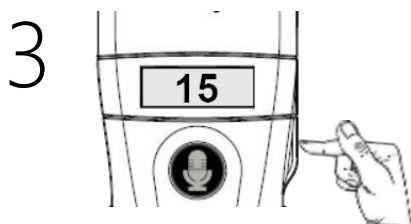
Does not apply to a group of previously paired devices.



Press and hold the microphone and power buttons simultaneously to turn on the Tx.



Choose channel with \triangle ∇ .

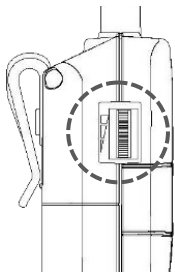


Confirm the new channel by pressing the power button. Next, turn on the Rx receivers.



Press the microphone button to exit this mode after all Rx receivers are paired.

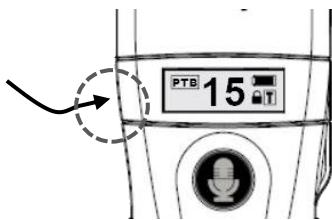
- **Volume change**



Adjust the headphone volume with this volume control on the receiver.

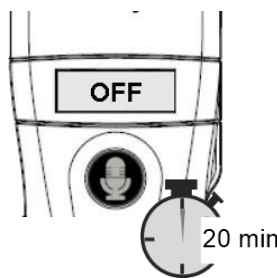
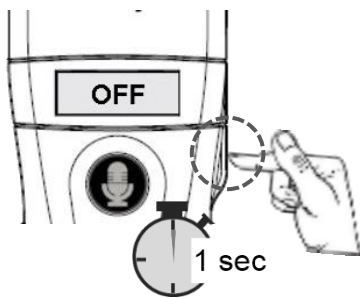
Note: Listening to high volume audio for a long time may damage your hearing.

- **Connecting external audio**



Plug an optional 3.5mm audio cable into the Tx line jack to send audio wirelessly.

- **Unplugging devices**



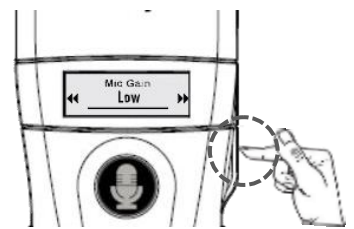
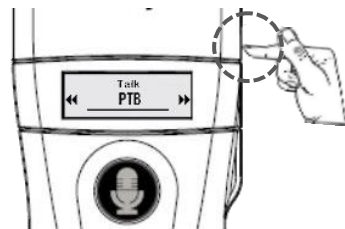
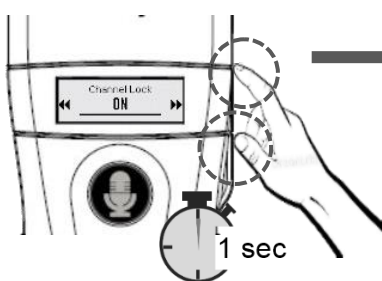
Press and hold the power button for 1 second to turn off the device.

The receiver will turn off automatically if it loses the transmitter signal for 20 minutes.

SETTINGS

Several device settings can be adjusted to the user preferences.

Devices must be turned off before accessing the settings panel.



1 Press Δ and the power button simultaneously to turn on.

2 Select settings with Δ ∇ . Confirm by pressing the power button.

3 After selecting the last setting, the device will turn on automatically.

Tx transmitter		Rx receiver	
Channel Lock ¹	<u>ON</u> / OFF	Channel Lock ¹	<u>ON</u> / OFF
Talk ²	<u>PTB</u> / PTT / PTM	Auto Power-Off ⁶	<u>ON</u> / OFF
Mic Gain ³	1 / 2 / <u>3</u> / 4 / 5	Auto Power-On ⁷	ON / <u>OFF</u>
RF Power ⁴	Hi / <u>Low</u>	Alarm ⁸	<u>ON</u> / OFF
Audio Priority ⁵	ON / <u>OFF</u>	Earphone Out ⁹	<u>Regular</u> / HAC level

1. The channel will be locked automatically after power on.
2. Microphone button function mode:
 - PTB: Press to turn microphone on/off;
 - PTT: Press and hold button to speak;
 - PTM: Press and hold button to mute microphone.
3. Adjust microphone sensitivity to your preferences (lowest: 1; highest: 5).
4. Adjust signal strength to the conditions: Hi – 20 mW, Low – 10 mW.
5. The microphone will be muted when audio is streaming through the 3.5mm audio line jack.
6. Turn off automatically if there is no signal from Tx transmitter for 20 minutes.
7. Turn on automatically when removed from charger.
8. Alarm triggered if there is no signal from the Tx transmitter for 3 minutes.
9. Higher volume available for HAC users.


TROUBLESHOOTING

-  **NO DATA**

Tx does not pair its group beforehand. See GROUP PAIRING to complete group pairing.

-  **NOT APPLICABLE**

This feature is not applicable.

-  **BUSY**

Information for "Discussing" mode. Max. 2 speakers at the same time. Wait for one speaker to be muted to make room for next user.

-  **DATA ERROR**

Transmitter no. 2 did not get a list of paired receivers from transmitter no. 1. Turn off transmitter no. 2 and then turn it on according to the instructions.

- **Receiver cannot hear transmitter**
 - Make sure the volume on the receiver is set correctly.
 - Make sure both the transmitter and receiver are set to the same channel.
 - Make sure that both the transmitter and receiver are in the same communication mode (G, T or D).
- **Receiver cannot speak**
 - When in "G" mode, make sure the "s" switch is set in the transmitter.
 - When in "T" mode, make sure that transmitter no. 2 (role switch in "s") is muted.
 - Rx cannot talk in "D" mode.
- **Transmitter cannot remotely unify its group channel**
 - When in "G" or "T" mode, make sure the "m" switch is set.
 - When in "D" mode, make sure no other transmitter is occupying a channel.
- **Invalid group size during attendance check**
 - The transmitter cannot detect a receiver that may be accidentally turned off or out of the transmitter's range.
- **Transmitter does not transmit conversation correctly when muted**
 - Transmitter with the "m" switch always occupies 1 of 2 positions for full duplex communication, even when muted.
 - Disconnect the audio cable (3.5mm line jack) from the transmitter with the "s" switch.

TECHNICAL SPECIFICATION

- **General**

Frequency band	823 ~ 832 MHz & 863 ~ 865 MHz
Emission modulation	GFSK
Number of channels	42
Number of simultaneous channels	20
Bandwidth	250 kHz
Full duplex communication	max. 2 users
Number of users per channel	unlimited
Frequency range	300 Hz ~ 4.5 kHz

T.H.D.	< 7%
Latency	< 25 ms
Range (line of sight)	< 100 m
Power type	2x AA alkaline 1.5 V / 2x Ni-MH AA 1.2 V
Charging time	6 ~ 8 hours for Ni-MH 2000 mAh
Display	0.9" OLED
Dimensions	95 x 46.5 x 32mm
Weight without batteries	55 ± 5 g

- **Transmitter (Tx)**

Signal output power	10 mW/20 mW
Built-in microphone	Electret condenser
Headphone-microphone jack	jack 3.5 mm TRRS
Aux-In jack	3.5mm TRS jack
Working time	>15 hours

- **Receiver (Rx)**

Signal output power	10 mW
Built-in microphone	Electret condenser
Headphone jack	3.5mm TRS jack
Working time	>20 hours

SALES AND SERVICE



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