DIGITAL STATIONARY TRANSMITTER
Model: DST-OTG

Conferencing
Interpretation
Assistive Listening

[User Manual]

Manufacturer's Declaration

■ This product meets the following standards:

◆ Federal Communications Commission Interference Statement

Notice: The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC INFORMATION

The Federal Communication Commission Radio Frequency Interference Statement includes the following paragraph:

The equipment has been tested and found to comply with the limits for a Class B Digital Device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communication.

However, there is no grantee that interference will not occur in a particular installation. If this equipment dose cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on , the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and receiver.

-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions: (1) This device may not cause harmful interference,

and (2) this device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE: To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure require-ments and void user's authority to operate the device.

◆ Europe – EU Declaration of Conformity
This device complies with Directive 2014/53/EU issued by the Commission of the European Community.

◆ WEEE Statement
Electrical and electronic equipment must be disposed of at the end of their lifespan separately from household waste.
Please dispose of this equipment at your local waste collection or recycling center. Please help to protect our environment.

◆ Safety and Electromagnetic Emissions Certificates
Standard Compliance
● RoHs compliant
● European Directive 2011/65/EU
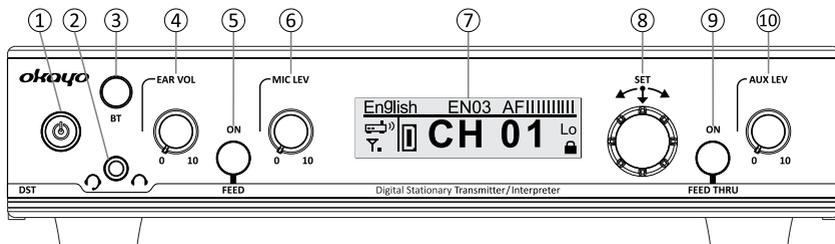Certificates
● CE
● FCC
● NCC

Table of Contents

■ **Product overview**

◆ Front panel

① Power button

② 3.5 mm headphone / headset-mic socket

③ Backlit Bluetooth button

④ Headphone volume control

⑤ Backlit Mic (Transmitter) / Feed (Interpreter O/I) button

⑥ Mic level control

⑦ OLED Display

⑧ Menu / Set jog dial

⑨ Backlit Aux (Transmitter) / Feed Thru (Interpreter O/I) button

⑩ Aux-in level (volume) control

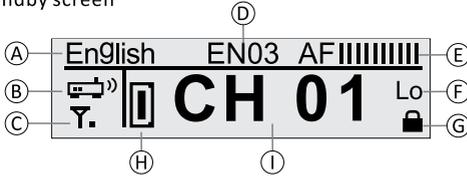◆ Rear panel
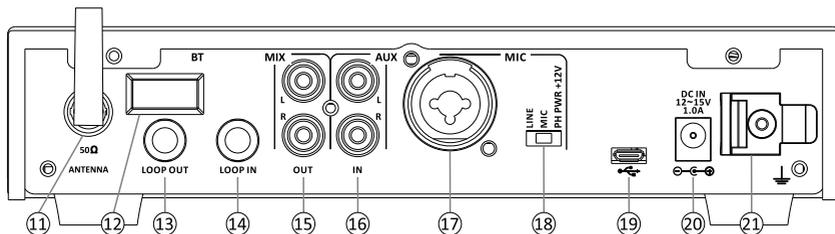
⑪ Rod antenna (TNC connector)

⑫ Bluetooth sensor

⑬ 6.3 mm loop output

⑭ 6.3 mm loop input

⑮ RCA mix output

⑯ RCA aux input

⑰ Combo input

⑱ Line / Mic / Phantom switch

⑲ Uploading port

⑳ DC jack

㉑ Cable grip

■ **Display overview**

◆ Standby screen

Ⓐ English   EN03 AF ▐▌▐▌▐▌▐▌▐▌ Ⓔ
Ⓑ 📟 CH 01 Lo Ⓕ
Ⓒ Ⓖ
Ⓗ   Ⓘ
Ⓓ

Ⓐ Bespoke channel name
  ● This can be defined via proprietary software OK-OTG-SW.
Ⓑ Transmitter mode
  ● Transmitter 📟 (*default*)
  ● Interpreter O 📟 (to work with okayo's 10-way Language Router LR-10)
  ● Interpreter I 📟
Ⓒ RF power
  ● Low ▼. (*default*)
  ● Mid ▼.ı
  ● Hi ▼.ıl
Ⓓ Bespoke ID number
  ● This can be defined via proprietary software OK-OTG-SW.
Ⓔ Audio level
  ● This fluctuates upon audio signals.
Ⓕ Aux-in level
  ● Lo (*default*): this setting is recommended if the transmitter will be connected with audio source, such as mp3 player, whose level is lower.
  ● Hi: this setting is recommended if the transmitter will be connected with professional mixer or other audio source whose level is higher.
Ⓖ Channel lock
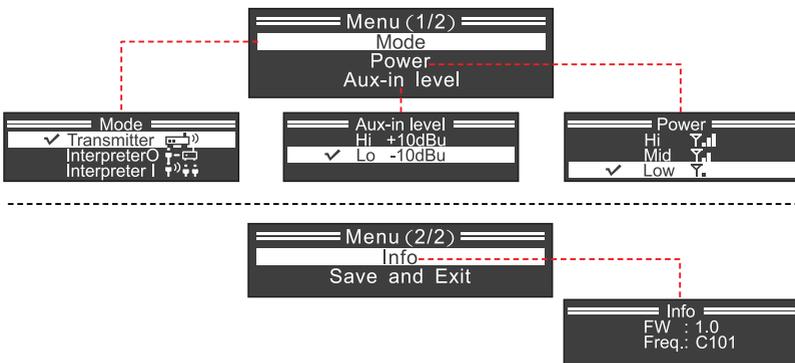 ● Channel will be locked automatically when the transmitter is on.
Ⓗ Communication mode
  ● Each stationary transmitter allows max. one (1) compatible OTG-200T with communication mode "D" to work simultaneously.
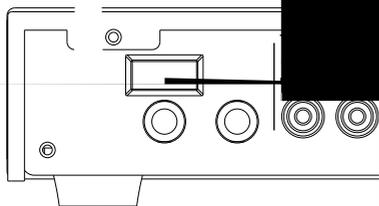Ⓘ Channel number
  ● Total channel quantity varies upon frequency and default channel number is 01.

◆ Setting screen
  ● To enter the setting menu, press and keep pressing the jog dial (⑧) when turning the transmitter on (①).
  ● Turn the jog dial (⑧) clockwise to select preferred setting and then press the jog dial (⑧) again to confirm new selection and return to setting menu.
  ● To exit the setting menu, select "Save and Exit" and press the jog dial (⑧) again.
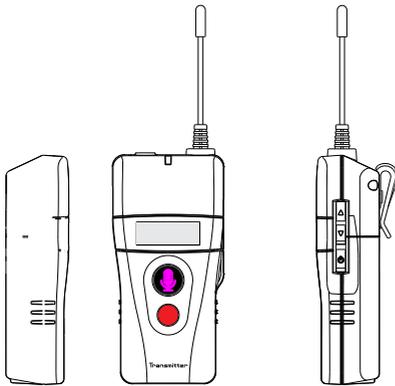
Menu (1/2)
Mode
Power
Aux-in level

Mode
✓ Transmitter 📟
InterpreterO 📟
Interpreter I 📟

Aux-in level
Hi +10dBu
✓ Lo -10dBu

Power
Hi ▼.ıl
Mid ▼.ı
✓ Low ▼.

Menu (2/2)
Info
Save and Exit

Info
FW : 1.0
Freq.: C101

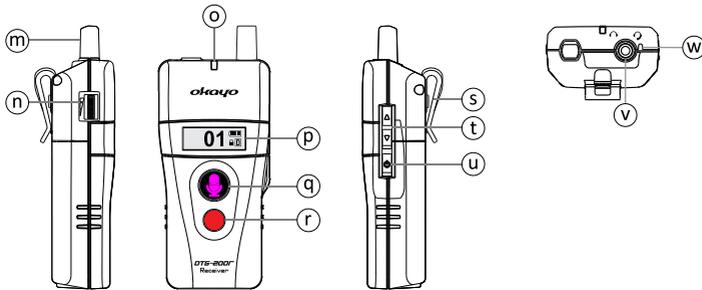## ■ Connecting instruction

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⚠ Bu sure to <u>plug</u> the transmitter <u>into</u> the socket before programming.
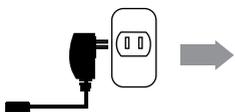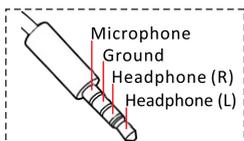
◆ Bodypack transmitter *OTG-200T*

Transmitter

◆ Bodypack receiver *OTG-200R*

ⓜ Antenna	ⓢ Belt clip
ⓝ Volume control	ⓣ Up / down button
ⓞ Signal / Status indicator	ⓤ Power button
ⓟ OLED screen	ⓥ Headphone jack*
ⓠ PTT (push to talk) button	ⓦ Inbuilt microphone
ⓡ Alarm-release button	

* Recommended 4-pin jack type is shown below.

Microphone
Ground
Headphone (R)
Headphone (L)

⚠ PTT button (ⓠ) and alarm-release button (ⓡ) are invalid when OTG-200R works with DST-OTG.
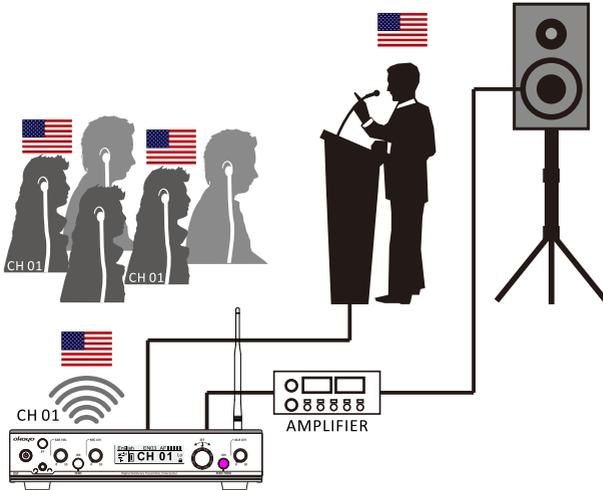
◆ Operation
  ● Power on
    Press and hold the power button (ⓘⓤ) for 1 second to power the transmitter / receiver on.
  ● Adjust communication mode (transmitter)
    Press and hold both ▼ (ⓗ) and power (ⓘ) buttons simultaneously to turn the transmitter on.
    Then, press the ▲ or ▼ button (ⓗ) to adjust its mode from T̄EACHING to D̄ISCUSSING. Press the
    power button (ⓘ) to confirm (underline) and leave the setting.

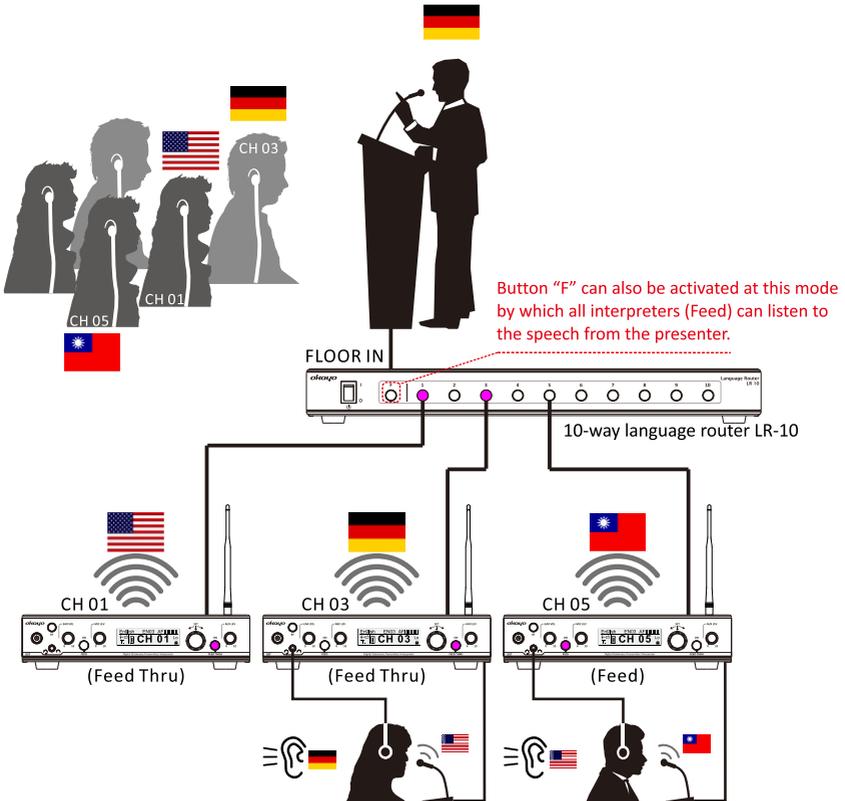⚠ Only communication mode D̄ can work with DST-OTG.

  ● Assign your group channel
    Press both ▲ and ▼ buttons (ⓗⓣ) simultaneously to unlock the channel (symbol 🔒 disappears) when
    the transmitter is on. Then, press the ▲ or ▼ button (ⓗⓣ) to select another channel. Finally, press
    the power button (ⓘⓤ) again or leave it for 1 second to confirm the setting automatically.
  ● Power off
    Press and hold the power button (ⓘⓤ) till OFF shows up on the screen to turn the transmitter /
    receiver off.

■ **Applications**
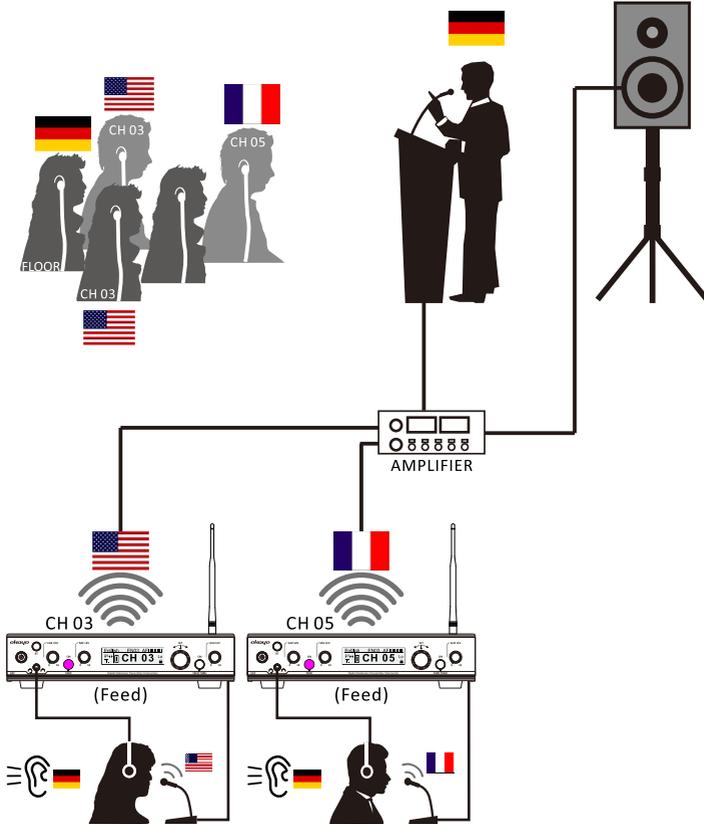
◆ Conferencing / Assistive listening (Mode: Transmitter)

AMPLIFIER

CH 01

◆ Interpretation for multi-languages (Mode: Interpreter O)

Button "F" can also be activated at this mode by which all interpreters (Feed) can listen to the speech from the presenter.

FLOOR IN

10-way language router LR-10

CH 01 (Feed Thru)

CH 03 (Feed Thru)

CH 05 (Feed)

◆ Interpretation for 1~3 languages (Mode: Interpreter I)

■ **Troubleshooting**

Trouble	Solution
Why can't I turn the transmitter on?	● Check if the transmitter is connected with power already.
Why can't I hear anything from bodypack receiver?	● Check if the bodypack receiver is turned on. ● Check if selected channel on both transmitter and receiver is same. ● Check if the volume of bodypack receiver is tuned at appropriate level. ● Check if the bodypack receiver is located within the operation range of the transmitter.
Why can't the transmitter send audio signal?	● Check if the input signal is well connected with the transmitter. ● Check if the mic / aux level is tuned at appropriate level.
Why is the operation range shorter?	● Check if the attached antenna is fixed well. ● Check if the audio level is pre-set correctly. ● Adjust the RF power in the setting menu.
Why is the volume of the transmitter quite low?	● Check if aux-in level is set correctly (Lo / Hi).

■ **Specifications**

Carrier frequency range	490 ~ 938 MHz (country dependent)
RF output power (country dependant)	● Hi: 18 dBm ● Mid: 13 dBm ● Lo: 10 dBm
Antenna	TNC connector
Headphone output	200 mW @ 32 ohm
Inputs	● Mic in: 6.3 mm & XLR ● Aux in: RCA ● Loop in: 6.3 mm
Outputs	● Earmic out: 3.5 mm, stereo ● Aux out: RCA ● Loop out: 6.3 mm
Wireless coverage	>100 meters (open field, hi power)
Power requirements	100 ~ 240 V AC / 12 V DC; 1A switching power
Dimensions(D x W x H)	215 x 210 x 51 (mm)
Weight	1.25 kgs

※Specifications are subject to change without prior notice.

okayo ®

The sound option

OKAYO ELECTRONICS CO., LTD.
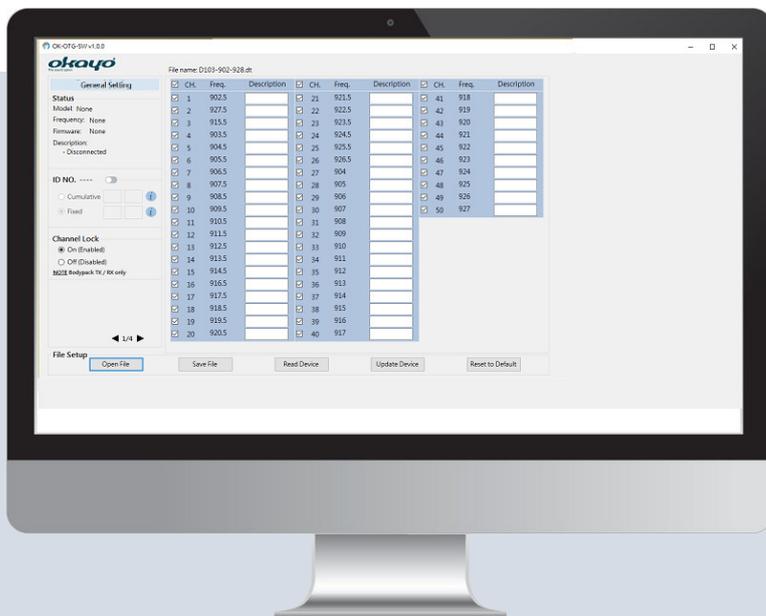
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E-mail: okayo@okayo.com

www.okayo.com

Okayo OTG Software

Applied models:
- *5-slot charger* <u>C5</u>
- *25-slot charger* <u>C25</u>
- *50-slot charger* <u>C50</u>
- *Stationary transmitter* <u>DST-OTG</u>
- <u>OTG-200</u> *series**
- **Specific connection cable required.*

[USER MANUAL]

■ **System Requirements**

    ◆ OS
       • Microsoft Windows 10 or above: 32/64 bit or above

    ◆ CPU
       • Intel ® Core ™ i3 or above

    ◆ RAM
       • 2GB RAM or above

    ◆ Display Resolution
       • 1280 x 720 or above

§ "Windows" and "Microsoft" are the trademarks of Microsoft Corporation.
§ "Intel" and "Core" are the trademarks of Intel Corporation.

■ **Connecting instructions before programming**

◆ Bodypack transmitter/receiver OTG-200T/R via proprietary programming cable
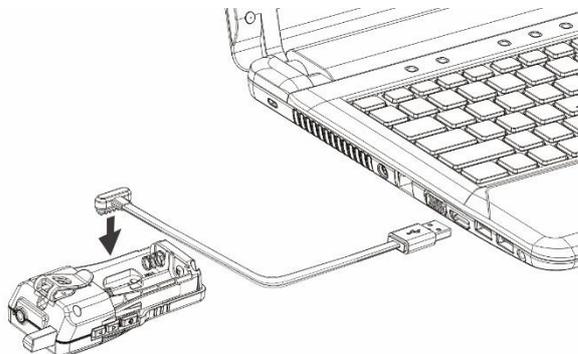
◆ Stationary transmitter DST-OTG via micro-USB to USB programming cable
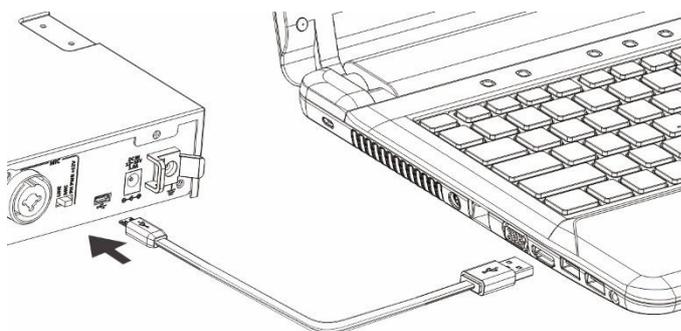
◆ Charger C5 / C25 / C50 via USB to USB programming cable
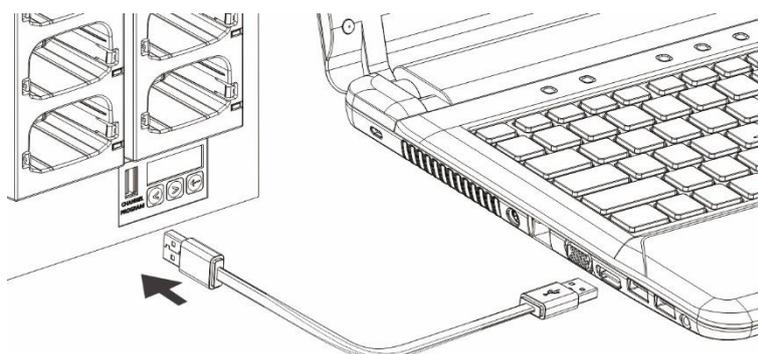
◼ **Program Setup**

① Insert disk and double click **OK-OTG-SW v1.0.x** as shown below.

OK-OTG-SW-F01
1-v1.0.1

② Click **Next** when following window shows up.

③ Set a route for installation of **OK-OTG-SW** and click **Next** to continue.
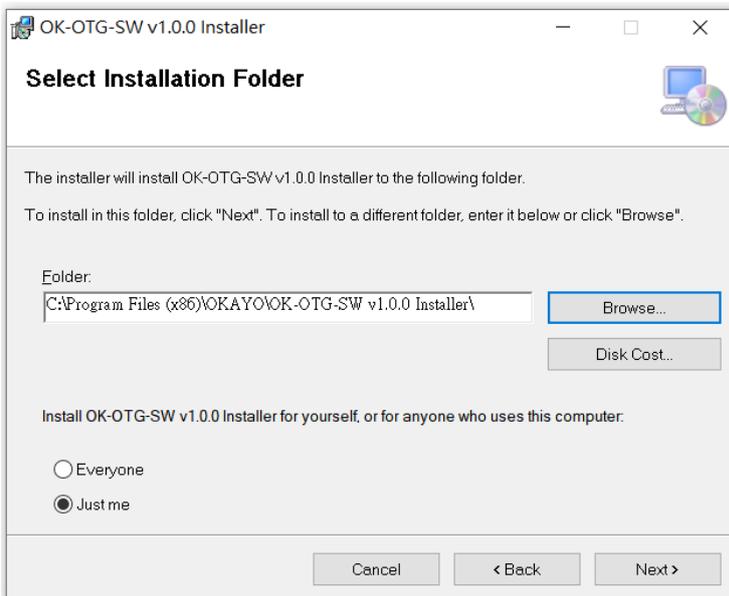
④ Input user name, organization and authorized serial number (being offered as a
hardcopy) and click ***Next*** to continue.

⑤ Click ***Next*** to start the installation.
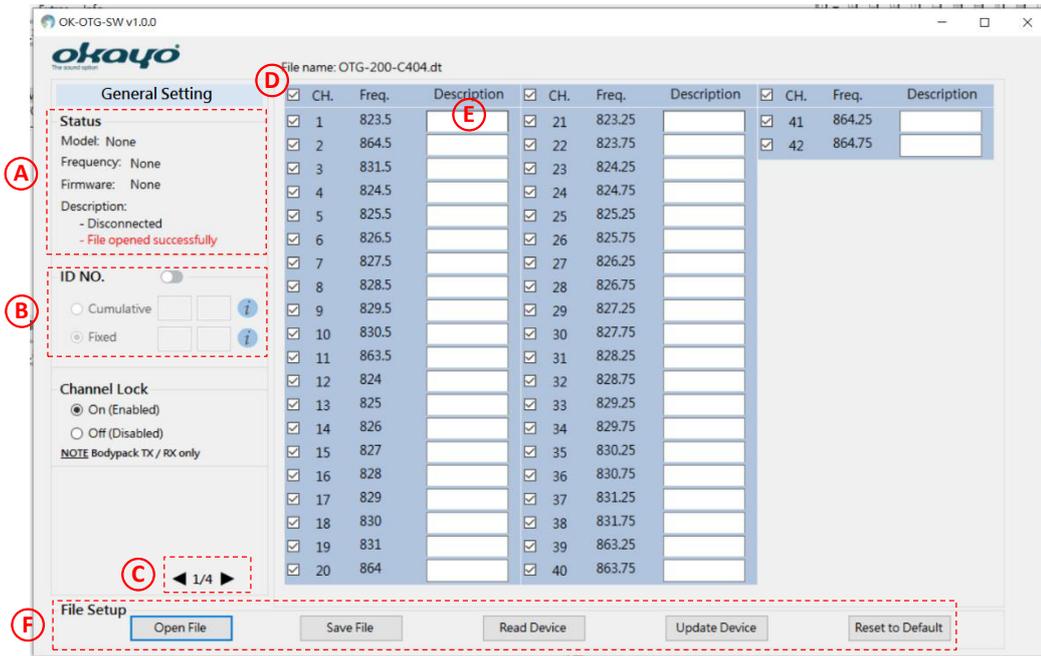
⑥ Installation is under process.
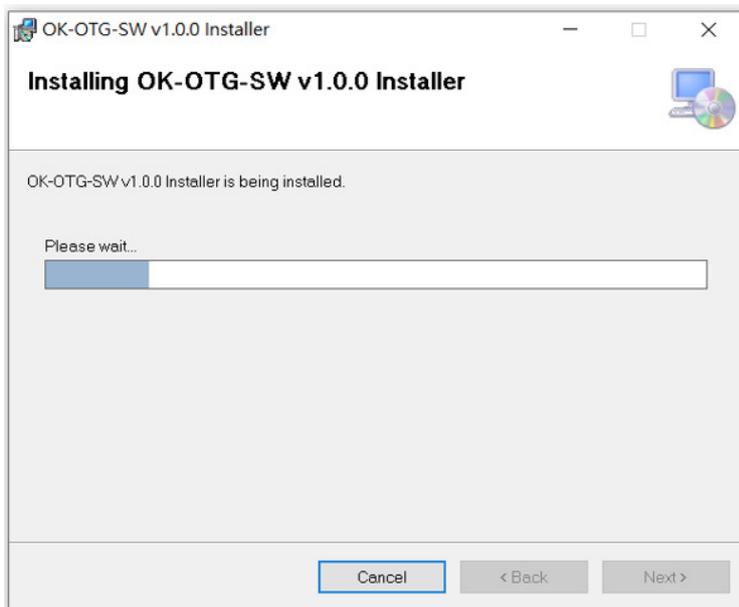
⑦ Click **Close** to complete the installation.
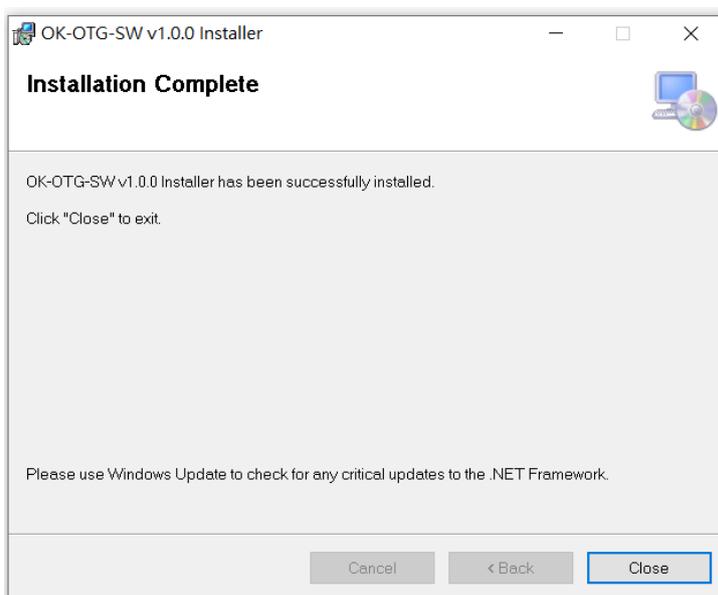
⑧ Shortcut is available for setting / channel compilation now.

■ Interface

Ⓐ Status of connected device

- Model name, frequency code, firmware version and so on will show up for checking.

Ⓑ Bespoke ID compilation

- Two (2) kinds of ID-number compilation are available.
  ① Cumulative ID number:
     ID number will be cumulative every time when a new device is connected and updated, specifically for a group with same setting operated by different people, e.g. a tour operator or rental market.
  ② Fixed ID number:
     ID number will be fixed without change every time when a new device is connected and updated, specifically for a project or event where people use it without obligation, e.g. ALS market.
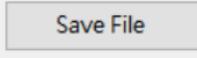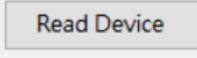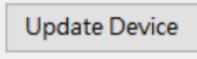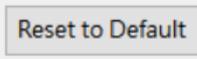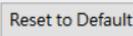
Rules of ID number:
① Capital characters or numbers for first 2-digits.
② Numbers only for last 2-digits.
③ Only numbers in last 2-digits can be cumulated.

Ⓒ Total 4 pages are available for various setting adjustments upon models.

Ⓓ Channels can optionally be selected or deselected upon preference and only clicked channels will be shown on unit(s).

Ⓔ Bespoke channel name can be compiled and only inputting "Description" with desired characters on clicked channels will be shown on unit(s).

Ⓕ File setup
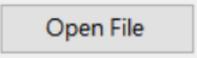
- **Open File** : Open previously saved file (.dt).
- **Save File** : Save current settings and channels in your PC (.dt).
- **Read Device** : Read the device that is connected with your PC.
- **Update Device** : Update current settings and channels onto connected device.
- **Reset to Default** : All settings, except ID number, on connected devices will be reset to default. *Note the button* **Update Device** *needs to be pressed again to update connected device after all settings are reset to default (* **Reset to Default** *). See all default settings upon models below.*

① General setting

ID NO.	---
Channel Lock	⊙ On (Enabled) ○ Off (Disabled)

② Receiver setting

Alarm (when out of range)	⊙ On (Enabled) ○ Off (Disabled)
Earphone Out	○ HAC level ⊙ Regular
Auto-Off after 20 mins	⊙ On (Enabled) ○ Off (Disabled)

Auto-On (away from charger)	○ On (Enabled)
	⊙ Off (Disabled)

③ Transmitter setting

Mode	○ Guiding
	⊙ Teaching
	○ Discussing
Talk	⊙ PTB (Push to bolt)
	○ PTT (Push to talk)
	○ PTM (Push to mute)
Mic. Gain	○ Level 1
	○ Level 2
	⊙ Level 3
	○ Level 4
	○ Level 5
RF Power	○ Hi
	⊙ Low
Audio Priority	○ On
	⊙ Off

④ Stationary Tx setting

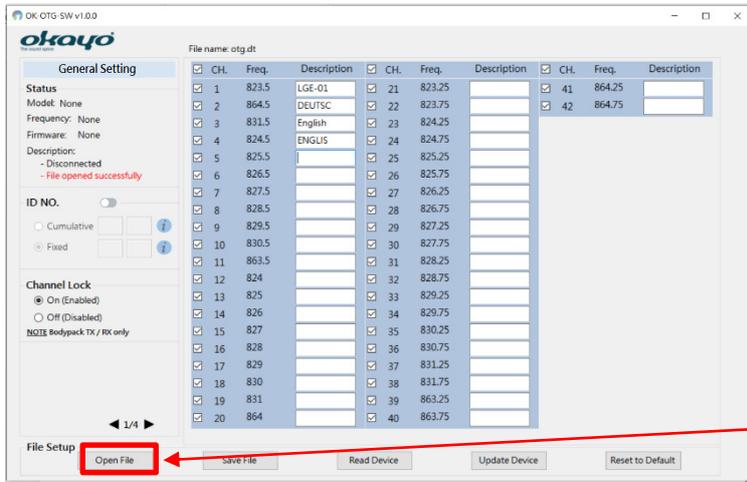| Mode | ⊙ Transmitter |
	○ Interpreter O
	○ Interpreter I
RF Power	○ Hi
	○ Mid
	⊙ Low
Aux-in Level	○ Hi
	⊙ Low

■ **Troubleshooting**

◆ Why are marked channels not possible to be complied?
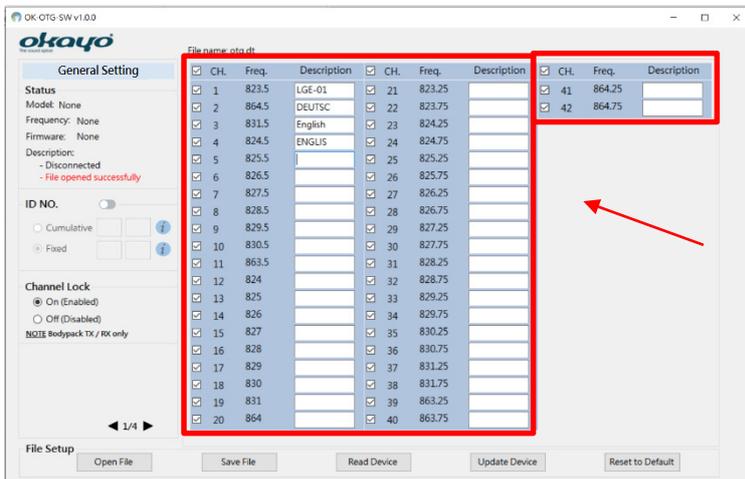
- Length of inputting letters various upon languages.

- Only symbols in below table are allowed to use.

①	-	⑦	_
②	~	⑧	:
③	+	⑨	/
④	*	⑩	?
⑤	;	⑪	,
⑥	.		

◆ Why can't I see device info when my PC connects with compatible charger?


Example:
OTG-200-B106.dt
OTG-200-C109.dt

- Open enclosed "frequency code" file (.dt) in attached software CD. Compile and adjust all channels and settings, then click **Update Device** to update all devices placed in the compatible charger.

- Connect your PC with bodypack transmitter/receiver OTG-200T/R via proprietary programming cable. Click **Read Device** to obtain device info and then disconnect the bodypack transmitter/receiver OTG-200T/R with your PC. After compiling and adjusting all channels and settings, click **Update Device** to update all devices placed in the compatible charger.

◆ Why can't I compile ID numbers?
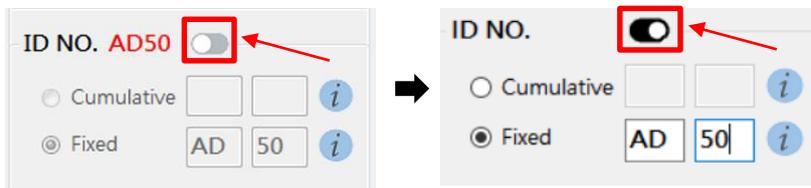
- Click above indicated switch to start your ID compilation.

- Make sure ID numbers are correctly compiled (see paragraph "Interface").

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