

## **Engineered Sound Wireless Systems**

## **User Manual**

English

## Important information

#### Warning

To prevent fire or shock hazard, do not expose this apparatus to rain or moisture.

#### Caution

- Do not expose this apparatus to drips or splashes.
- To avoid electric shock, do not open the cabinet.
- Refer servicing to qualified personnel only.
- Do not expose this apparatus to excessive heat such as sunshine, fire or the like.
- Do not subject this apparatus to strong impact.
- Do not place any objects filled with liquids, such as vases, on this apparatus.
- To prevent fire, do not place any naked flame sources (such as lighted candles) on this apparatus.
- Do not install this apparatus in a confined space such as a bookcase or similar unit.
- Install this apparatus only in the place where ventilation is good.

#### **Battery caution**

- · Keep batteries out of the reach of children.
- Observe correct polarity as marked.
- Do not expose the battery to excessive heat such as sunshine, fire or the like.
- Always consider the environmental issues and follow local regulations when disposing of batteries.
- Remove depleted battery immediately.
- Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
- Do not use a leaking battery. If battery leakage occurs, avoid contact with skin. If contact occurs, immediately wash thoroughly with soap and water.
- If battery leakage comes into contact with your eyes, immediately flush with water and seek medical attention.

## For customers in the USA

#### FCC Notice

#### Warning:

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.

#### **Caution:**

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

#### **RF Exposure Statement**

This device (ESW-R4180DAN) complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines. This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure evaluation. (MPE). But it is desirable that it should be installed and operated keeping the radiator at least 20cm or more away from person's body.

This device (ESW-T4101 / ESW-T4102/C510 / ESW-T4106 / ESW-T4107) complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines. This equipment has very low levels of RF energy that is deemed to comply without testing of specific absorption rate (SAR).

#### Contact:

Responsible Company: Audio-Technica U.S., Inc. Address: 1221 Commerce Drive, Stow, Ohio 44224, USA Tel: 330-686-2600

### For customers in Canada

#### **ISED** statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.

2. This device must accept any interference, including interference that may cause undesired operation of the device. This device complies with RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

## Important information

#### Warning

To prevent fire or shock hazard, do not expose this apparatus to rain or moisture.

#### Caution

- Do not expose this apparatus to drips or splashes.
- To avoid electric shock, do not open the cabinet.
- Refer servicing to qualified personnel only.
- Do not expose this apparatus to excessive heat such as sunshine, fire or the like.
- Do not subject this apparatus to strong impact.
- This apparatus should be located close enough to the AC outlet so that you can easily grasp the AC adapter at any time.
- In case of emergency, disconnect the AC adapter quickly.
- Do not install this apparatus in a confined space such as a bookcase or similar unit.
- Install this apparatus only in the place where ventilation is good.
- The rating label is put on the bottom of this apparatus.

## For customers in the USA

### FCC Notice

#### Warning:

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.

#### **Caution:**

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

#### Note:

This 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 instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does 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:

#### Safety precautions (charging station)

- 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.

#### Contact:

Responsible Company: Audio-Technica U.S., Inc. Address: 1221 Commerce Drive, Stow, Ohio 44224, USA Tel: 330-686-2600

### For customers in Canada

## **ISED** statement

CAN ICES-3(B)/NMB-3(B)

## Notes on use

## This system

- Be sure to read the user manual for any microphone or cable that you attach to the product.
- If you use the product near a TV or radio antenna, noise may be generated in the TV or radio. If this occurs, move the product away from the device.
- Be careful of interference noise caused by the surrounding radio wave environment and similar factors.
- This system may be affected by the spark noise of vehicles, dimmer of lighting apparatus, computers, office automation apparatus and electronic musical instruments. Place and use the product where it is less likely to be affected by the above.
- Be sure to use this system in combination with components specified by Audio-Technica.
- When installing this system, ensure that there are no obstacles between the receiver and transmitter that may block the signal.
- Over time, discoloration may occur due to ultraviolet rays (especially direct sunlight) and friction.
- It is legally prohibited to dismantle and modify this product. In addition, this product is so precisely manufactured that dismantling it could cause electric shock, failure, or fire. Never dismantle this product.
- When multiple units are used simultaneously, transmitters should be at least 1 m (3.3') apart, receivers should be at least 2 m (6.6') apart, and transmitters and receivers should be at least 2 m (6.6') apart. These distances are guidelines. They will vary depending on the installation environment, RF power, and actual operation status. Before installing multiple units, contact your local Audio-Technica dealer.
- When a howling, beeping or squealing sound is produced during use, turn down the output volume of the connected mixer/amplifier.

## Receiver

• Be sure the connected cable is plugged all the way into the product.

## Transmitter

- If you use the transmitter close to an electronic or communications device (such as a mobile phone), the transmitter may produce unwanted noise. If this occurs, move the transmitter away from the device.
- To prevent depletion of the rechargeable batteries, turn off the transmitter when not in use and when not loaded in the charging station.

## **Charging station**

- Be sure the connected cable is plugged all the way into the product.
- Unplug the power cord from the power outlet when not using the charging station.

## Maintenance

(!)

If the product becomes stained or covered with dust, wipe it off with a dry and soft cloth.

- Be sure to turn the device off before performing maintenance.
  - Dirt easily adheres to the charging terminals of the transmitter and charging station. Charging may not be possible if these products are used with dirty terminals. If these terminals are dirty, wipe away this dirt with a cotton swab or something similar. Be careful not to apply too much force when doing so.
  - Do not use benzene, thinner, or electrical contact cleaner, etc. Doing so may cause deformation, damage, or malfunction.

## About this system

Audio-Technica's Engineered Sound Wireless Systems is a DECT-compliant wireless system that offers high-quality sound. This system eliminates frequency coordination, which was a limitation of conventional wireless systems, allowing for use of numerous microphones (transmitters) with no license applications.

Microphones (transmitters) can be used immediately after removing them from the charging station, and operation is simple regardless of the size of the conference room. The simplified wiring eliminates the hassle of installing multiple antennas.

Settings can be configured easily with Audio-Technica's dedicated software, Wireless Manager.

## **Devices compliant with this system**

This system consists of the following devices.

## Receiver





**1** ESW-R4180LK

8ch Receiver (with Audio-Technica LINK)

#### **2** ESW-R4180DAN

8ch Receiver (with Dante)

## **Transmitters**



9

## **Charging stations**



#### ESW-CHG4

Two-Bay Charging Station (for ESW-T4101 and ESW-T4102/C510)

#### 2 ESW-CHG5

Four-Bay Charging Station (for ESW-T4106 and ESW-T4107)

## **ESW-R4180LK**





#### 1 Status indicator lamp

Lights when the device is on. This lamp also shows the status of this receiver. Refer to "Indicator lamp displays" (p. 139) for details.

#### **2** Link indicator lamp

Shows the link status of the transmitter. Refer to "Indicator lamp displays" (p. 139) for details.



#### 3 Audio-Technica LINK A/B terminals

Used with Audio-Technica LINK. Use to connect LAN cables (must be Cat. 5e or higher, shielded cables with conductor size of 24AWG or greater in diameter). These terminals connect to a local area network, allowing for external control via applications.

#### 4 Reset button

Use to perform a factory reset.

## ESW-R4180DAN



#### Status indicator lamp

Lights when the device is on. This lamp also shows the status of this receiver. Refer to "Indicator lamp displays" (p. 139) for details.

#### 2 Link indicator lamp

Shows the link status of the transmitter. Refer to "Indicator lamp displays" (p. 139) for details.

#### **3** Network A/B ports

Network ports for the Dante standard. Use to connect LAN cables (Cat. 5e or higher, shielded cables with conductor size of 24AWG or greater in diameter). These ports connect to a local area network, allowing for external control via applications. The device turns on when the network A port is connected to a PoE-compatible switching hub.

Mode	A port (PoE input)/B port
Single Cable mode	Network A port: IP/Dante Network B port: Not used.
Split mode	Network A port: Dante Network B port: IP

#### 4 Reset button

Use to check the network mode, reset the network, and perform a factory reset.

## **ESW-T4101**







#### 1 Status indicator lamp

Lights when the device is on. This lamp also shows the status of this transmitter.

#### **2** Internal microphone

#### **3** PUSH button

Turns the device on or off and switches between muted and unmuted.

#### **4** Transmission antenna

#### **5** Input connector

Use to connect an external microphone.

#### 6 Clip

Use to connect this device to a belt or something similar.

#### Strap hole

#### 8 Charging terminals

#### Part names and functions

## ESW-T4102/C510





#### 1 Status indicator lamp

Lights when the device is on. This lamp also shows the status of this transmitter.

#### 2 Mute switch

Switches between muted and unmuted.

#### **3** Power button

Turns the power on or off.

#### 4 Charging terminals

## ESW-T4106







#### **1** USB port (USB Type-C<sup>™</sup>)

Use to charge this device via a USB cable.

#### **2** Status indicator lamp

Lights when the device is on. This lamp also shows the status of this transmitter.

#### **3** Charging terminals

#### 4 Microphone

#### 5 Talk switch

Switches between muted and unmuted.

#### 6 Talk indicator lamp

Shows the muted/unmuted status.

#### Power button

Turns the power on or off.

## ESW-T4107



Use to charge this device via a USB cable.

#### **2** Status indicator lamp

Lights when the device is on. This lamp also shows the status of this transmitter.

#### **3** Charging terminals

#### **4** Input connector

Use to connect a gooseneck microphone.

#### 5 Talk switch

Switches between muted and unmuted.

#### **6** Talk indicator lamp

Shows the muted/unmuted status.

#### Power button

Turns the power on or off.

## **ESW-CHG4**



Use to configure links.

#### **5** Status indicator lamps

Show the charging status.

#### 6 Mounting holes for mic holder

Use to mount mic holders.

#### Cap for DC jack

Removed when linking multiple charging stations.

#### 8 Cord outlet

Passes the power cord of the AC adapter.

#### 9 Reset button

Use to check the network mode, reset the network, and perform a factory reset.

#### DC input jack

Connect the AC adapter.

#### Part names and functions

#### **1** Network port

Use to connect a LAN cable (Cat. 5e or higher, shielded cable). This port connects to a local area network, allowing for external control via applications.



#### 12 DC output jack for linking

Use to link multiple charging stations. This jack communicates with and supplies power to the linked charging stations.

#### 13 DC input jack for linking

Use to link multiple charging stations. This jack receives communication and power supplied from the linked charging stations.

### Mic holders

If you mount the included mic holders on the device, you can hang pin microphone cables on these holders during charging.





## **ESW-CHG5**





#### 1 Power indicator lamp

Lights when the device is on. This lamp also shows the network connection status.

#### **2** Status indicator lamps

Show the charging status.

#### **3** Charging port (for ESW-T4106/ESW-T4107)

#### 4 LINK button

Use to configure links.

#### **5** Cap for DC jack

Removed when linking multiple charging stations.

#### 6 Cord outlet

Passes the power cord of the AC adapter.

#### DC input jack

Connect the AC adapter.

#### Part names and functions

#### 8 Reset button

Use to check the network mode, reset the network, and perform a factory reset.

#### 9 Network port

Use to connect a LAN cable (Cat. 5e or higher, shielded cable). This port connects to a local area network, allowing for external control via applications.

#### **10** DC output jack for linking

Use to link multiple charging stations. This jack communicates with and supplies power to the linked charging stations.

#### **1** DC input jack for linking

Use to link multiple charging stations. This jack receives communication and power supplied from the linked charging stations.

## How to install the receiver

## LAN cable wiring patterns

Wire the LAN cable appropriately to match the installation environment.

## Wiring from the side



## Wiring from the bottom



## Wiring from the rear



## How to attach

Use screws to attach the included bracket.





**2** Catch the receiver on the bracket.

#### How to install the receiver



## **3** Slide the receiver down to attach it.

• Slide the receiver until it clicks, and then check whether the receiver is securely mounted on the bracket.



• For stable reception, install the receiver in a non-obstructed location. Low RF signal may result if there are obstructions between the receiver and transmitter.

## How to remove

Slide the receiver up.



**2** Remove the receiver from the bracket.





• When removing the receiver, be careful to not pull on the connected cable.

This section explains basic operations to allow for prompt use of this system. For detailed operations and setup methods, refer to their explanation pages.

# With an Audio-Technica LINK-compatible device (ESW-R4180LK)

This system receives signals from eight transmitters with a single receiver and can output them via Audio-Technica LINK.

#### Install Wireless Manager on a PC.

• From our company website (https://www.audio-technica.com/), select your country or region, and then download the program from the corresponding website.

#### 2 Connect the receiver and Audio-Technica LINK-compatible mixer using a LAN cable.

- Refer to "How to install the receiver" (p. 21) for how to install the receiver.
- For the LAN cable, use a Cat. 5e or higher, shielded cable with conductor size of 24AWG or greater in diameter.
- Once connected, the receiver will turn on and the status indicator lamp will light after some tens of seconds.



- **3** Attach a LAN cable and the power cord of the AC adapter to the charging station, and then connect the power plug to an electrical outlet.
  - For the LAN cable, use a Cat. 5e or higher, shielded cable and connect to the same network as the receiver.
  - The charging station turns on and its power indicator lamp lights.



**4** Insert the transmitters to use into the charging station.



- **5** Connect the PC to the same network as the mixer and charging station.
  - With the factory default setting, the IP addresses of the charging station are set to "Auto". Make sure the IP addresses of the mixer is set to "Auto", and configure the PC so that its IP address setting is acquired automatically.
- **6** Start Wireless Manager, and then configure the link to each device.
  - Refer to "Configuring links to devices" (p. 81) for details.

Wireless Manager - New Project								_ >	<
File Edit Tools System Window	Help								
Device List		ink Configuration		Frequency	Coordination		Monitor		
Location Location01	• •						Unsynced	Device 🕕	
System # 01							Off Ros	ming On	
Primary Table Re	call Preset Manage	Preset Make Preset					Assignment		
Receiver	Ch1	ransmitter			Ch.8 Output	Identify Sync Lock	Model Name V ID V PAddre		
Identify Sync Model Name ID V IP Address V	01	Model Name ID							
		Тх							
	05								
•				Unsynced Devices	C			^	×
	DECT Wireless System A								
					I Model Name 🗸				
				Ξ	ESW-R4180LK	0	169.254.249.93	×8	
				<u> </u>	ESW-CHG4 [linked]	0	169.254.241.123	x 6	
					ESW-T4101				
				Restore					

- 7 Sets the audio output of the mixer.
- **8** Remove the transmitter from the charging station.
- **9** Press and hold the power button on each transmitter (the PUSH button for the ESW-T4101) for approximately 2 seconds, and then release the button.
  - When the link between the receiver and the transmitter is established, the link indicator lamp on the receiver and the status indicator lamp on the transmitter light.
  - It may take some time (approximately 10 seconds) for the first link to be established.
- **10** Check the audio input.
- 11 Monitor each device in Wireless Manager.

## With a Dante-compatible device (ESW-R4180DAN)

This system receives signals from eight transmitters with a single receiver and can output Dante-output audio.

#### Install Wireless Manager on a PC.

• From our company website (https://www.audio-technica.com/), select your country or region, and then download the program from the corresponding website.

#### **2** Connect the receiver to a Dante-compatible mixer with a LAN cable.

- Refer to "How to install the receiver" (p. 21) for how to install the receiver.
- For the LAN cable, use a Cat. 5e or higher, shielded cable with conductor size of 24AWG or greater in diameter.
- Connecting the LAN cable to a PoE power supplying switch turns the receiver on. After some tens of seconds, the status indicator lamp lights.



## **3** Attach a LAN cable and the power cord of the AC adapter to the charging station, and then connect the power plug to an electrical outlet.

- For the LAN cable, use a Cat. 5e or higher, shielded cable and connect to the same network as the receiver.
- The charging station turns on and its power indicator lamp lights.



**4** Insert the transmitters to use into the charging station.

#### Basic flow of using this system



### **5** Connect the PC to the same network as the receiver and charging station.

• With the factory default setting, the IP addresses of the receiver and charging station are set to "Auto". Configure the PC so that its IP address setting is acquired automatically.

#### **6** Start Wireless Manager, and then configure the link to each device.

• Refer to "Configuring links to devices" (p. 81) for details.



#### Basic flow of using this system

**7** Assign this mixer with Dante Controller, and then set the audio output.

- You can download Dante Controller from the Audinate website (https://www.audinate.com/).
- **8** Remove the transmitters from the charging station.
- **9** Press and hold the power button on each transmitter (the PUSH button for the ESW-T4101) for approximately 2 seconds, and then release the button.
  - When the link between the receiver and the transmitter is established, the link indicator lamp on the receiver and the status indicator lamp on the transmitter light.
  - It may take some time (approximately 10 seconds) for the first link to be established.

**10** Check the audio input.

11 Monitor each device in Wireless Manager.

## System configuration examples

## ESW-R4180LK



### **Connecting multiple devices**

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• Depending on the connection configuration, LINK EXTENDER such as ATLK-EXT25 may be required. Contact your local Audio-Technica dealer for details on using LINK EXTENDER.

## ESW-R4180DAN



### **Connecting multiple devices**

If there are multiple receivers on the same network, they are automatically set as the leader and followers via a synchronization signal between receivers, ensuring stable operation. If one of the following actions occurs on the network while a receiver is linked with a transmitter, the synchronization is lost and all links on the network may be disconnected until synchronization is established again.

- The leader receiver turns off.
- RF mode is changed on the leader receiver.
- A DECT RF scan is performed on the leader receiver.
- A new receiver is added to the same network.

### System configuration examples



## Usage example



## How to charge

## Charging the ESW-T4101 or ESW-T4102/C510

Use charging station ESW-CHG4 to charge the devices.

1 Attach a LAN cable and the power cord of the AC adapter to the charging station, and then connect the power plug to an electrical outlet.

- Pass the power cord of the AC adapter along the groove on the charging station and bring it out from the cord outlet.
- For the LAN cable, use a Cat. 5e or higher, shielded cable.
- The charging station turns on and its power indicator lamp lights.



Power indicator lamp display	Operation status				
Lit in green	Device on (connected to network)				
Lit in blue	Device on (not connected to network)				

#### **2** Insert the transmitters to charge into the charging ports of the charging station.

- You can charge up to two transmitters at the same time in one charging station.
- Check the orientation of the transmitters before inserting them. Transmitters cannot be charged if their orientation is not correct.
- When charging a handheld transmitter, do so with the microphone capsule attached.
- When the charging of a transmitter starts, the status indicator lamps on the charging station light.


Status indicator lamp display	Charging status
Four lamps flashing in red in order	Preparing for charging
One lamp lit in red	Charging (0% to less than 25%)
Two lamps lit in red	Charging (25% to less than 50%)
Three lamps lit in red	Charging (50% to less than 75%)
All four lamps lit in red	Charging (75% to less than 100%)
All four lamps lit in green	Charging complete
One lamp flashing in red	Communication failure <sup>[1]</sup> /preliminary charging <sup>[2]</sup>
All four lamps flashing in red	Charging defect

[1] A charging defect occurs when the communication failure status continues for approximately 30 minutes.

[2] The preliminary charging status occurs when charging starts after a battery is fully discharged or when charging starts with a rechargeable battery at a low temperature. The charging station will return to the normal charging status after a few minutes.

- (!)
- Transmitter rechargeable batteries can be charged approximately 300 times, but this limit varies depending on the usage. You can use Wireless Manager to check the charging cycle count and the health status (deterioration) of a battery. Refer to "How to read the charging station monitor" (p. 89) for details.
- If you insert a transmitter into a charging station and all four status indicator lamps flash in red, there may be a charging defect. Remove the AC adapter, and then attach it again. If all four status indicators still flash in red, the transmitter's rechargeable battery may have reached the end of its service life. Replace it with a new rechargeable battery.
- Dirt easily adheres to the charging terminals of the transmitter and charging station. Charging may not be possible, charging may finish before completion, and the battery level may not be displayed properly in Wireless Manager if these products are used with dirty terminals. If these terminals are dirty, wipe away this dirt with a cotton swab or something similar. Be careful not to apply too much force when doing so.

## Charging the ESW-T4106 or ESW-T4107

### Using a charging station

Use charging station ESW-CHG5 to charge the devices.

# **1** Attach a LAN cable and the power cord of the AC adapter to the charging station, and then connect the power plug to an electrical outlet.

- Pass the power cord of the AC adapter along the groove on the charging station and bring it out from the cord outlet.
- For the LAN cable, use a Cat. 5e or higher, shielded cable.
- The charging station turns on and its power indicator lamp lights.



Power indicator lamp display	Operation status
Lit in green	Device on (connected to network)
Lit in blue	Device on (not connected to network)

#### **2** Insert the transmitters to charge into the charging ports of the charging station.

- You can charge up to four transmitters at the same time in one charging station.
- Check the orientation of the transmitters before inserting them. Transmitters cannot be charged if their orientation is not correct.
- Although we recommend that you charge transmitters while they are off, you can also charge them while they are on. In such cases, the transmitters will turn off automatically.
- When the charging of a transmitter starts, the status indicator lamps on the charging station light.

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Status indicator lamp display	Charging status
Four lamps flashing in red in order	Preparing for charging
One lamp lit in red	Charging (0% to less than 25%)
Two lamps lit in red	Charging (25% to less than 50%)
Three lamps lit in red	Charging (50% to less than 75%)
All four lamps lit in red	Charging (75% to less than 100%)
All four lamps lit in green	Charging complete
One lamp flashing in red	Communication failure <sup>[1]</sup> /preliminary charging <sup>[2]</sup>
All four lamps flashing in red	Charging defect

[1] A charging defect occurs when the communication failure status continues for approximately 30 minutes.

[2] The preliminary charging status occurs when charging starts after a battery is fully discharged or when charging starts with a rechargeable battery at a low temperature. The charging station will return to the normal charging status after a few minutes.

• Transmitter rechargeable batteries can be charged approximately 300 times, but the maximum charging capacity varies depending on the usage. Check the maximum charging capacity with the monitor in Wireless Manager. Refer to "How to read the charging station monitor" (p. 89) for details.

• Whenever possible, use transmitters after they are fully charged.

- If you insert a transmitter into a charging station and all four status indicator lamps flash in red, there may be a charging defect. Remove the AC adapter, and then attach it again. If all four status indicators still flash in red, the transmitter's rechargeable battery may have reached the end of its service life. Replace it with a new rechargeable battery.
- Dirt easily adheres to the charging terminals of the transmitter and charging station. Charging may not be possible if these products are used with dirty terminals. If these terminals are dirty, wipe away this dirt with a cotton swab or something similar. Be careful not to apply too much force when doing so.

### Charging via a USB connection

You can charge a transmitter without using a charging station by connecting a commercially available USB cable and USB power supply adapter to the USB port (USB Type-C) of the transmitter.

#### How to charge

**1** Connect the transmitter and USB power supply adapter with a USB cable.

- Insert the USB cable into the USB port in a straight (level) manner.
- When the charging starts, the status indicator lamp lights.
- You can also charge the device by connecting it to a USB port on a PC.



Status indicator lamp display	Charging status
Lit in red	Charging
Lit in green	Charging complete
Flashing slowly in red	High-temperature defect

# Linking charging stations

The ESW-CHG4 and ESW-CHG5 are network-compatible charging stations. You can link multiple instances of these charging stations for use.

## Link combinations

You can link as many charging stations as you want provided that the number of charging ports is eight or less.

• If linking these devices causes there to be more than eight ports, charging will not be performed on the charging station where this charging port limit was exceeded, and this station's power indicator lamp will light alternately in green and blue.

### Connection example where only ESW-CHG4 units are linked

You can link up to four units. Connect the AC adapter and LAN cable to the first charging station (on the left in the figure).



## Connection example where only ESW-CHG5 units are linked

You can link up to two units. Connect the AC adapter and LAN cable to the first charging station (on the left in the figure).

### Linking charging stations



- 2 AC adapter
- 3 Link cable

### Connection example where ESW-CHG4 and ESW-CHG5 units are linked

You can link up to three units (two ESW-CHG4 units and one ESW-CHG5 unit). Connect the AC adapter and LAN cable to the first charging station (on the left in the figure).







## How to link

## Included accessories used when linking

Use the included link kit to link charging stations.



### Linking two ESW-CHG4 units

**1** Remove the caps for DC jacks, and then connect the link cable.



**2** Attach the link plate with link plate screws.



## Linking two ESW-CHG5 units

**1** Remove the caps for DC jacks, and then connect the link cable.



**2** Attach the (two) link plates with link plate screws.



### Linking the ESW-CHG4 and ESW-CHG5

Remove the caps for DC jacks, and then connect the link cable.



**2** Attach the link plate with link plate screws.

## Linking charging stations



## ESW-R4180LK/ESW-R4180DAN

## Checking the network mode (ESW-R4180DAN only)

#### Press the reset button with a pin that has a thin tip by inserting this pin slowly in a straight manner.

• The status indicator lamp flashes.



Status indicator lamp display	Network mode
Flashing in green (five times)	Auto
Flashing in orange (five times)	Static

### Resetting the network (ESW-R4180DAN only)

The following network settings will be returned to their factory default values. This is useful in, for example, returning the network mode to "Auto" when the IP address is unknown.

• IP Setting

1

- Remote Control
- Syslog
- NTP Setting
  - **1** Press and hold (approximately 3 seconds) the reset button with a pin that has a thin tip by inserting this pin slowly in a straight manner.
    - The status and link indicator lamps light alternately in red and orange.



2 Quickly press the reset button while the status and link indicator lamps are lighting alternately.

• If no operations are performed for approximately 5 seconds after the status and link indicator lamps start lighting alternately, the device will return to normal operation mode.

>> A network reset will be executed. After the network reset, the device will automatically restart.

• While resetting or restarting is in progress, do not pull out the cable connected to the receiver.

### Performing a factory reset

All settings will be returned to their factory default values.

**1** Press and hold (8 seconds or more) the reset button with a pin that has a thin tip by inserting this pin slowly in a straight manner.

• The status and link indicator lamps light alternately in green and orange.





- 2 Status indicator lamp
- 3 Link indicator lamp
- 2

Quickly press the reset button while the status and link indicator lamps are lighting alternately.

• If no operations are performed for approximately 5 seconds after the status and link indicator lamps start lighting alternately, the device will return to normal operation mode.

>> A factory reset will be executed. After the factory reset, the device will automatically restart.

You can also execute factory resets from Wireless Manager.
While resetting or restarting is in progress, do not pull out the cable connected to the receiver.

### **ESW-T4101**

### Turning the device on/off

With the device off, press and hold (approximately 2 seconds) the PUSH button.





- >> The device turns on. When the link with the receiver is established, the status indicator lamp lights.
- 2 With the power on, press and hold the PUSH button for approximately 2 seconds, and then release the button.

>> The device turns off.

- If the transmitter is turned on with no link configured between it and the receiver (the factory default status), the status indicator lamp of the transmitter will flash quickly in red for approximately 10 seconds before the transmitter turns off.
  - If the transmitter is turned on with a link configured between it and the receiver, the transmitter will search for the link destination, and its status indicator lamp will flash in red. If this lamp continues flashing for 1 minute and the link destination cannot be found, the transmitter will automatically turn off.
  - If you turn the transmitter on immediately after removing it from the charging station, it may take some time (approximately 5 seconds) before the transmitter starts.

#### Switching between muted and unmuted

#### With the device on, quickly press the PUSH button.

- The device switches between muted and unmuted each time this button is quickly pressed.
- The status indicator lamp lights.



PUSH button

2 Status indicator lamp

Status indicator lamp display	Operation status
Lit in red	Muted
Lit in green	Unmuted

### Checking the battery level

- With the device on, press and hold (approximately 5 seconds) the PUSH button.
  - The status indicator lamp flashes.



Flashing in green (four times)

### **Battery level alert**

If the battery level drops too low, the status indicator lamp flashes. Charge the battery.



Status indicator lamp

Status indicator lamp display	Battery level alert
Flashing in orange	There is no battery power. The device will turn off within 30 minutes. <sup>[1]</sup>
Flashing in the color the lamp lights in when the device is muted/unmuted	The battery level is low. The device will turn off within 60/90/120 minutes.

75% or more

[1] The time is a guideline. It varies depending on usage conditions.

[2] This function is turned off with the factory default settings. You can set the time to 60/90/120 minutes with "Battery Alert" under "Device Setting". Refer to "Wireless Manager device settings" (p. 93) for details on "Device Setting".

### How to attach an external microphone

Attach a cH connector-compatible external microphone.

- Guitar cables are not supported.
  - **1** Remove the cap for the input connector.



2 Connect the external microphone to the input connector and tighten the screw part.



• For details on compatible microphones, contact your local Audio-Technica dealer.

### How to wear the device

You can use the clip of the body-pack transmitter to attach it to a belt or something similar when using the device.



### How to mount a neck strap

You can mount the included neck strap to the strap hole or clip of the body-pack transmitter to hang the device from your neck when using it.



## ESW-T4102/C510

Turning the device on/off

With the device off, press and hold (approximately 2 seconds) the power button.



- >> The device turns on. When the link with the receiver is established, the status indicator lamp lights.
- **2** With the device on, press and hold the power button for approximately 2 seconds, and then release the button.

#### >> The device turns off.

- If the transmitter is turned on with no link configured between it and the receiver (the factory default status), the status indicator lamp of the transmitter will flash quickly in red for approximately 10 seconds before the transmitter turns off.
  - If the transmitter is turned on with a link configured between it and the receiver, the transmitter will search for the link destination, and its status indicator lamp will flash in red. If this lamp continues flashing for 1 minute and the link destination cannot be found, the transmitter will automatically turn off.
  - If you turn the transmitter on immediately after removing it from the charging station, it may take some time (approximately 5 seconds) before the transmitter starts.

### Switching between muted and unmuted

#### Slide the mute switch.

1

• Slide the mute switch down to mute the device and slide the mute switch up (ON) to unmute the device.



Status indicator lamp display	Operation status
Lit in red	Muted
Lit in green	Unmuted

## Checking the battery level

1 With the device on, press and hold (approximately 5 seconds) the power button.

• The status indicator lamp flashes.



Status indicator lamp display	Battery level
Flashing in green (one time)	0% to less than 25%
Flashing in green (two times)	25% to less than 50%
Flashing in green (three times)	50% to less than 75%
Flashing in green (four times)	75% or more

### Battery level alert

If the battery level drops too low, the status indicator lamp flashes. Charge the battery.



1 Status indicator lamp

1

Status indicator lamp display	Battery level alert
Flashing in orange	There is no battery power. The device will turn off within 30 minutes. $^{[1]}$
Flashing in the color the lamp lights in when the device is muted/unmuted	The battery level is low. The device will turn off within 60/90/120 minutes. $^{[1][2]}$

[1] The time is a guideline. It varies depending on usage conditions.

[2] This function is turned off with the factory default settings. You can set the time to 60/90/120 minutes with "Battery Alert" under "Device Setting". Refer to "Wireless Manager device settings" (p. 93) for details on "Device Setting".

### How to remove the microphone capsule

Rotate the microphone capsule counterclockwise to remove it.



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- Do not directly touch or scratch the connection surface between the microphone capsule and the handheld transmitter.
  - Be sure to turn off the handheld transmitter before removing the microphone capsule.
  - Do not forcibly tighten the microphone capsule when attaching it. Doing so may damage the handheld transmitter or microphone capsule.

## ESW-T4106/ESW-T4107

### Turning the device on/off

With the device off, press and hold (approximately 2 seconds) the power button.



>> The device turns on. When the link with the receiver is established, the status indicator lamp lights.

2 With the device on, press and hold the power button for approximately 2 seconds, and then release the button.

#### >> The device turns off.

- If the transmitter is turned on with no link configured between it and the receiver (the factory default status), the status indicator lamp of the transmitter will flash quickly in red for approximately 10 seconds before the transmitter turns off.
  - If the transmitter is turned on with a link configured between it and the receiver, the transmitter will search for the link destination, and its status indicator lamp will flash in red. If this lamp continues flashing for 1 minute and the link destination cannot be found, the transmitter will automatically turn off.
  - If you turn the transmitter on immediately after removing it from the charging station, it may take some time (approximately 5 seconds) before the transmitter starts.

#### Switching between muted and unmuted

#### **1** Quickly press the talk switch.

- The device switches between muted and unmuted each time this button is quickly pressed.
- You can change this setting with "Mute Mode" under "Device Setting". Refer to "Wireless Manager device settings" (p. 93) for details on "Device Setting".
- The talk indicator lamp and the status indicator lamp light.



Indicator lamp display	Operation status
Lit in red	Muted
Lit in green	Unmuted

• You can change the display color with "Mute LED Color" or "Unmute LED Color" under "Device Setting". Refer to "Wireless Manager device settings" (p. 93) for details on "Device Setting".

### Checking the battery level

With the device on, press and hold (approximately 5 seconds) the power button.

• The status indicator lamp flashes.



Status indicator lamp display	Battery level
Flashing in green (one time)	0% to less than 25%
Flashing in green (two times)	25% to less than 50%
Flashing in green (three times)	50% to less than 75%
Flashing in green (four times)	75% or more

### Battery level alert

If the battery level drops too low, the status indicator lamp flashes. Charge the battery.



1 Status indicator lamp

Status indicator lamp display	Battery level alert
Flashing in orange	There is no battery power. The device will turn off within 30 minutes. <sup>[1]</sup>
Flashing in the color the lamp lights in when the device is muted/unmuted	The battery level is low. The device will turn off within 60/90/120 minutes.

[1] The time is a guideline. It varies depending on usage conditions.

[2] This function is turned off with the factory default settings. You can set the time to 60/90/120 minutes with "Battery Alert" under "Device Setting". Refer to "Wireless Manager device settings" (p. 93) for details on "Device Setting".

## Checking the directionality of the microphone (ESW-T4106 only)

#### **1** Quickly press the power button.

• The status indicator lamp flashes.



1 Power button

2 Status indicator lamp

1

Status indicator lamp display	Directionality of the microphone
Flashing in blue (three times)	Cardioid
Flashing in white (three times)	Omnidirectional

• You can change this setting with "Polar Pattern" under "Device Setting". Refer to "Wireless Manager device settings" (p. 93) for details on "Device Setting".

## How to attach a gooseneck microphone (ESW-T4107 only)

To use a gooseneck microphone, attach it to a desk stand transmitter.

Rotate the gooseneck microphone clockwise while inserting it into the desk stand transmitter.

• Tighten until the gooseneck microphone stops turning.



**2** Use a hexagonal wrench to tighten the fixing screw, fixing the gooseneck microphone in place on the desk stand transmitter.



- Refer to the user manual of the gooseneck microphone for details on how to assemble and handle the gooseneck microphone.
  - For details on compatible gooseneck microphones, contact your local Audio-Technica dealer.

## ESW-CHG4/ESW-CHG5

### Checking the network mode

#### Quickly press the reset button.

1

• The power indicator lamp flashes.



Power indicator lamp display	Network mode
Flashing in green (five times)	Auto
Flashing in cyan (five times)	Static

### **Resetting the network**

The following network settings will be returned to their factory default values. This is useful in, for example, returning the network mode to "Auto" when the IP address is unknown.

- IP Setting
- Remote Control
- Syslog
- NTP Setting

1

Press and hold the reset button for approximately 3 seconds, and then release the button.

• The power indicator lamp lights alternately in blue and cyan.



### **2** Quickly press the reset button while the power indicator lamp is lighting alternately in these colors.

• If no operations are performed for approximately 5 seconds after the power indicator lamp starts lighting alternately, the device will return to normal operation mode.

>> A network reset will be executed. After the network reset, the device will automatically restart.

• While resetting or restarting is in progress, do not pull out the cable connected to the charging station.

### Performing a factory reset

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1

All settings will be returned to their factory default values.

Press and hold (8 seconds or more) the reset button.

• The power indicator lamp lights alternately in green and cyan.



Reset button
 Power indicator lamp

1

#### **2** Quickly press the reset button while the power indicator lamp is lighting alternately in these colors.

• If no operations are performed for approximately 5 seconds after the power indicator lamp starts lighting alternately, the device will return to normal operation mode.

#### >> A factory reset will be executed. After the factory reset, the device will automatically restart.

You can also execute factory resets from Wireless Manager.
While resetting or restarting is in progress, do not pull out the cable connected to the charging station.

### Switching to power-saving mode

You can use this device in power-saving mode, which lowers the current consumption.

- The device does not connect to the network in this mode, so it is not possible to update the firmware, check the network mode, reset the device, and perform similar operations.
- To lower the current consumption, the power and status indicator lamps are darker than in the normal mode.
- In power-saving mode, the status indicator lamp turns off when the transmitter is fully charged.
- In power-saving mode, it may take some time (approximately 10 seconds) before the charging of the transmitter starts. You can start this charging immediately by quickly pressing the LINK button.

Check that the charging station is not connected to the network.

• When it is not connected to the network, the charging station's power indicator lamp lights in blue.

- **2** Press and hold (approximately 3 seconds) the LINK button and the reset button at the same time.
- **3** When the power indicator lamp flashes, release these buttons.
  - $\gg$  The device switches to power-saving mode.

• Removing the AC adapter and attaching it again cancels the power-saving mode.

# **Transmitter links**

In this user manual, a wireless connection between a receiver and a transmitter is referred to as a "link".

• You have to configure the link in advance in Wireless Manager. Refer to "Configuring links to devices" (p. 81) for details.

## How to link a receiver and transmitter

- Remove the transmitter from the charging station.
- **2** Press and hold the power button on the transmitter (the PUSH button for the ESW-T4101) for approximately 2 seconds, and then release the button.
  - If you insert a transmitter that is on into the charging station, the transmitter will automatically turn on when you remove it from the charging station.
  - If you turn the transmitter on immediately after removing it from the charging station, it may take some time (approximately 5 seconds) before the transmitter starts.
  - >> The transmitter turns on and automatically searches for the link destination. When the link is established, the link indicator lamp on the receiver and the status indicator lamp on the transmitter light.

## What is Wireless Manager?

It is a software application that is required when configuring the settings of this system. You can use it to not only connect to a device and configure the link and device settings but also to create settings in advance in an offline manner and apply these settings to an online device. You can also scan the RF environment, monitor connected devices, and view the system log.

• Dante settings cannot be configured from Wireless Manager.

### **Recommended environment**

Wireless Manager is designed for use with a PC. It cannot be used with a tablet or smartphone. Visit our website for the latest information on compatible OS.

Item name	Details
Compatible OS	Microsoft Windows 10 64 bit Microsoft Windows 11 64 bit macOS Big Sur (Version 11) macOS Monterey (Version 12)
Installation size	210 MB
Display resolution	1920 × 1080 or higher
CPU	Intel <sup>®</sup> Core <sup>™</sup> i5, i7 or higher
Memory	4 GB or more (8 GB or more recommended if operating multiple devices)

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Before using Wireless Manager, be sure to update the device firmware to the latest version.

### **Installing Wireless Manager**

### For Windows

Download the Wireless Manager installer onto your Windows PC.

- From our company website (https://www.audio-technica.com/), select your country or region, and then download the program from the corresponding website.
- **2** Open the downloaded Zip file, and double-click the "WirelessManagerInstaller\_vXXX\_XXbit.exe" file.

>> The Setup Wizard will appear on the screen.

#### **Wireless Manager**

**3** Follow the instructions on the screen to install Wireless Manager.

» Once the installation is complete, the Wireless Manager shortcut will appear on the screen.

### For Mac

- Download the Wireless Manager installer onto your Mac.
  - From our company website (https://www.audio-technica.com/), select your country or region, and then download the program from the corresponding website.
- **2** Open the downloaded file (WirelessManagerInstaller\_vXXX.dmg).
- **3** Launch the installer (WirelessManagerInstaller\_vXXX.pkg).
  - >> The Setup Wizard will appear on the screen.
- 4 Follow the instructions on the screen to install Wireless Manager.

# **Connecting Wireless Manager to devices**

### How to connect to devices

- Set the firewall on the PC.
- **2** Configure the network settings of the PC and the device.
- **3** Connect the device and the PC on which Wireless Manager is installed.
- 4. Start Wireless Manager.
  - The "Unsynced Device" screen is automatically displayed when a compatible device is detected. Refer to "Wireless Manager basic use" (p. 79) for details.
- A confirmation screen asking to allow communication during setup may be displayed depending on the operating system and security software. In such cases, allow communication.

### If you cannot connect with the device

If you cannot connect with the device, check the following:

- Wireless Manager may not work properly due to the firewall or the security software firewall of the PC being used. In this case, check the firewall settings and authorize communication with Wireless Manager.
- Wireless Manager uses IP multicast. Make sure that your multicast IP address/port number is not blocked in your network environment.

## About firewall settings (example: Windows 11/Windows 10)

- Click "Windows Security" from the Start menu.
- 2 Click "Firewall & network protection".
- **3** Click "Allow an app through firewall".
- 4 Check whether the check boxes for the domain, private, and public items of "Wireless Manager" are all selected.
  - Select the check boxes for any items that are not selected.
- **5** Click "OK".

 If "Wireless Manager" is not listed, click "Allow another app" to add "Wireless Manager". If it does not appear in the list, you need to specify a location. Specify a file in the following location: C:\Program Files\Audio-Technica\Wireless Manager File name: WirelessManager.exe

## About firewall settings (example: Mac)

- **Click "System Preferences" from the Dock or Applications folder.**
- 2 Click "Security & Privacy", and then click the "Firewall" tab.
  - You may be asked to enter your password before making changes. In this case, click the lock, and then enter your password.
- **3** Click "Firewall Options".
- **4** Check whether Wireless Manager is authorized to communicate through the firewall.
  - If "Wireless Manager" is not displayed, click the "+" button under the list.
- **5** From the applications list, select "Wireless Manager", and then click "Add".
  - >> The color of the "Wireless Manager" indicator lamp in the list changes to green, and the connection is authorized.

### **Network settings**

With the factory default setting, the IP addresses of the receiver (ESW-R4180DAN), mixer (with Audio-Technica LINK), and charging station are set to "Auto", so devices are connected with IP addresses acquired automatically. To connect with static IP addresses, perform the following operations.

#### Using devices with static IP addresses

- Configure the PC so that its IP address setting is acquired automatically, and then connect this PC to the network over Ethernet.
- **2** Start Wireless Manager.
- **3** Connect the devices and the PC on which Wireless Manager is installed.

**4** Set each item under "Device Setting" -> "Network" -> "IP Setting" in Wireless Manager.

- Set "Mode" to "Static".
- Assign a unique IP address to each device.
- Assign a specific subnet mask to all the devices.
- Check that the IP addresses of the devices meet the IPv4 setting standard.

>> After the settings are changed, a message appears, and the devices are automatically restarted.

**5** Change the PC to a static IP address, and then assign this IP address and the subnet mask.

**6** Start Wireless Manager again.

# How to read main Wireless Manager screens

You can click the tabs to switch between screens.

Device List Link Configuration Frequency Coordination	Monitor
#tags 💿 and 🔿 or 🛛 Add	Unsynced Device +

 $\square$ 

• The "Frequency Coordination" screen is not used with this system.

# "Device List" screen

Use this screen to create the device list and to configure device settings. With an online connection, you can synchronize setting values via synchronization with devices.



#### **1** Tags

You can create tags. The tags can be added to the devices and channels and used to filter device lists. and: The list is filtered to include devices and channels with all of the selected tags. or: The list is filtered to include devices and channels with any of the selected tags.



#### 2 Device information switch

Click the icon to open and close information on the devices.

#### 3 Device information (receivers)

Displays information on receiver devices. Ch: Displays the channel numbers. Channel Name: Displays the channel names. You can click here to edit. Linked Tx: Displays the transmitter linked to each channel. Tags: You can assign created tags to each channel.

#### Device information (charging stations)

Displays information on charging station devices. Model Name: Displays the model name. Number of Ports: Displays the number of charging ports. Tags: You can assign created tags.

Device identifier

Identifies connected devices. Click the icon to make the indicator lamp of the corresponding device flash.

#### 6 Status

Displays the synchronization status of the connected device.

: The device and Wireless Manager are not synchronized.



The device and Wireless Manager are synchronized.

The transmitter is linked to a receiver.

A communication error has occurred. Right-click the icon and click "Resend setting to device". The Wireless

Manager settings are applied to the device.

: The link configuration was changed while the transmitter was removed from the charging station. Inserting

the transmitter into the charging station will update the link.

#### Device settings

Click the icon to configure the device settings. Refer to "Wireless Manager device settings" (p. 93) for details.

#### 8 Unsynced Device

Among all the connected devices that are recognizable as online, displays those devices that are not synchronized in the device list.

#### 9 Tags

You can assign created tags to devices.

#### 10 Add (+) button

Click the button to add a device to the device list. Refer to "Creating a device list" (p. 79) for details.

#### Delete (–) button

Click the button to delete the selected device.

### "Link Configuration" screen

Use this screen to configure device links for each system. You can also set the mix out and the charging station port assignments as well as switch to roaming mode.
#### How to read main Wireless Manager screens



#### 1 Preset

Displays the applied preset. You can also recall, manage, create, and edit presets. Refer to "Presets" (p. 110) for details.

#### 2 Location

As necessary, set the name of the location where this system is installed. Refer to "Setting the location name" (p. 119) for details.

#### **3** System

Configure links for each system.

#### 4 Delete (–) button

Click the button to delete the system.

#### **5** Receiver area

Use this area to register receivers.

#### 6 Transmitter area

Use this area to register transmitters.

#### Add area button

Click the button to add a transmitter area.

#### **8** Add system button

Click the button to add a system.



#### 9 Refresh Link Setting

Updates the receiver and transmitter link configuration. If a link is not established properly, clicking this button may solve the problem.



#### **10** Unsynced Device

Among all the connected devices that are recognizable as online, displays those devices that are not synchronized in the device list.

#### **1** Off/Roaming On

Click the icon to switch to roaming mode. Refer to "Roaming mode (ESW-R4180DAN only)" (p. 115) for details.



Set the charging station port assignments. Refer to "Setting charging station port assignments" (p. 120) for details.



#### 13 Charging station area

Use this area to register charging stations.

#### 14 Mix out setting area

Sets the mix out. Refer to "Setting the mix out" (p. 84) for details.

#### **15** Import button

Configures links to devices from a created device list. Refer to "Configuring links to devices added to a device list" (p. 82) for details.

### "Monitor" screen

Use this screen to monitor the channel names, reception levels, and audio output levels. Information such as the transmitter battery levels is also displayed. The charging status of transmitters inserted in charging stations is also displayed.



#### Screen selection tabs

Click these tabs to switch between the screens. "User Defined": Monitors a device selected from the device list. "Online Device(s)": Monitors only an online device from the device list.

#### 2 pages

You can switch between monitor pages created on the "Monitor Settings" screen.

#### 3 sort

Arranges the display of the channels in the selected order.

#### 4 Tags

You can create tags. The tags can be added to the devices and channels and used to filter device lists. and: The list is filtered to include devices and channels with all of the selected tags. or: The list is filtered to include devices and channels with any of the selected tags.

#### **5** Group

With multiple channels selected, click this button to group the channels together. Refer to "Grouping monitors together" (p. 90) for details.

#### 6 Monitor settings

Click the icon to configure the monitor settings. Refer to "Configuring monitor settings" (p. 91) for details.

#### 🚺 Log

Displays the log of connected devices.

### How to read main Wireless Manager screens

#### **8** Monitor

Displays the status of each channel. You can drag the channels to change their layout. Refer to "Monitoring devices" (p. 86) for details.



#### **9** Import button

Click the icon to add a channel to monitor. Refer to "Adding a monitor" (p. 86) for details.

#### Delete (–) button

Click the button to delete the selected channel.

This section explains the basic workflows in online and offline environments.

Network status	Description
Online environment	The PC and the devices are connected to the same network. You can easily create device lists and configure links from devices detected on the network. You can also monitor and apply settings to devices.
Offline environment	The PC and the devices are not connected to the same network. You can create device lists and configure links.

### **Online use**

Refer to "How to connect to devices" (p. 68) and set the PC and the devices in advance.

### Creating a device list

In an online environment, create the device list from the "Unsynced Device" screen.

- Create the device list from "Unsynced Device" ("Device List" screen).
- **2** Configure links from "Import Devices" ("Link Configuration" screen).
- **3** Monitor the devices ("Monitor" screen).

Configuring links directly without creating a device list

In an online environment, configure the link from the "Unsynced Device" screen.

- **1** Configure links from "Unsynced Device" ("Link Configuration" screen).
- **2** Monitor the devices ("Monitor" screen).

### **Offline use**

Create device lists and configure links in advance in an offline environment, and then apply these settings to devices in an online environment.

### Wireless Manager workflow

- Create the device list from "Add Device" ("Device List" screen).
- 2 Configure links from "Import Devices" ("Link Configuration" screen).
- **3** In an online environment, apply the settings to connected devices.
- **4** Monitor the devices ("Monitor" screen).

# Wireless Manager basic use

## **Creating a device list**

### Creating a device list from "Unsynced Device"

#### Click "Unsynced Device" on the "Device List" screen.

• The "Unsynced Device" screen is automatically displayed when a connected device is detected in an online environment. Among all the connected devices that are recognizable as online, this screen displays those devices that are not synchronized in the device list.



### 2 Select the device to add, and then drag it to the "Device List" screen.

- You can click the update button to update the display of the devices on the same network.
- Click "Restore" to read the device information and apply it to Wireless Manager. Perform this operation with no devices added to the device list.



1 Update button

>> The selected device is added to the "Device List" screen.

**3** Click "Close" on the "Unsynced Device" screen to close the screen.

Creating a device list from "Add Device"

Click the add (+) button on the "Device List" screen.



**2** Click "DECT" to switch the display.



**3** From the "Receiver", "Charger", and "Transmitter" columns, select the devices to add to the device list, and then enter the "Active Devices" value.

Add Device				~	×
UHF		DECT			
Receiver	Charger	Transmitter			
ESW-R4180DAN	ESW-CHG4	ESW-T4101			
	ESW-CHG5	ESW-T4102			
		ESW-T4106			
		ESW-T4107			
			Active Devices	1	
				<u>.</u>	
			Add	Clos	e

4 Click "Add".

>> The selected devices are added to the "Device List" screen.

**5** Click "Close" to close the "Add Device" screen.

### **Configuring links to devices**

On the "Link Configuration" screen, register a receiver and transmitter in the same system. If you register a charging station, you can set the port assignment of the LINK button.

Configure links from "Unsynced Device"

1

#### Click "Unsynced Device" on the "Link Configuration" screen.

• The "Unsynced Device" screen is automatically displayed when a connected device is detected in an online environment. Among all the connected devices that are recognizable as online, this screen displays those devices that are not synchronized in the device list.

		-		×
n	M	onitor		
		Unsynced [	Device (	

- 2 Select the device whose link will be configured, and then drag this device to the appropriate area on the "Link Configuration" screen.
  - You can click the update button to update the display of the devices on the same network.
  - You cannot register the same device multiple times.



1 Update button

>> The link to the device is configured.

**3** Click "Close" on the "Unsynced Device" screen to close the screen.

• When you configure a link from "Unsynced Device", the device is also added to the device list.

- After configuring a link to a transmitter, you can reconfigure its link to a different channel by dragging the transmitter there.
- Right-click a device whose link has been configured and click "Remove from combination" to remove the link configuration (the device will not be deleted from the device list).
- Do not remove transmitters while the screen indicating that processing is in progress is displayed.
  - Before editing a link configuration, be sure to place the transmitter in an online charging station, ensuring that the link information of the receiver and transmitter is updated simultaneously. Failing to do so may lead to mismatched encryption keys, preventing normal linking.

### Configuring links to devices added to a device list

**1** Click the import button on the "Link Configuration" screen.



- 2 Select the device to register, and then drag this device to the appropriate area on the "Link Configuration" screen.
  - You can filter the "Device List" with the "Tags" and "Device Type" items.
  - You cannot register the same device multiple times.



**3** Close the "Import Devices" screen by clicking the part indicated with the red frame.



- After configuring a link to a transmitter, you can reconfigure its link to a different channel by dragging the transmitter there.
   Bight click a device where link has been configured and click "Remove from combination" to remove the
  - Right-click a device whose link has been configured and click "Remove from combination" to remove the link configuration (the device will not be deleted from the device list).
- Do not remove transmitters while the screen indicating that processing is in progress is displayed.
  - Before editing a link configuration, be sure to place the transmitter in an online charging station, ensuring that the link information of the receiver and transmitter is updated simultaneously. Failing to do so may lead to mismatched encryption keys, preventing normal linking.

## Setting the mix out

- ESW-R4180DAN outputs different audio from ch.8 for "Mix Out" and "Discrete". When set to "Mix Out", the audio of the selected channel from ch.1 to ch.8 is mixed and output from ch.8. When set to "Discrete", the audio of ch.8 is output.
- In ESW-R4180LK, ch.9 is a mix-out channel, and the audio of the selected channel from ch.1 to ch.8 is mixed and output from ch.9.

# 1 Click the part indicated with the red frame on the "Link Configuration" screen. (ESW-R4180DAN only)

Refresh Lir	nk Setting C
ľ	Ch.8 Output
	Discrete 🗸

2 From the list, click "Mix Out". (ESW-R4180DAN only)

#### Wireless Manager basic use



**3** Select the check boxes to select the channels to set for the mix out.





• Even if you select Mix Out, ch. 1 to ch. 7 will be output individually.

### Applying settings to online connected devices

Once you have created a device list and configured links in an offline environment, you need to apply these settings to online connected devices in the actual operational environment.

• The "Unsynced Device" screen is displayed when online connected devices are detected in the actual operational environment.

**1** Select a connected device from the list, and then drag this device to the connected device to which you want to apply the settings of the "Device List" screen or the "Link Configuration" screen.

- You can click the update button to update the display of the devices on the same network.
- You cannot drag a device to one that has a different model or to which a different device ID or IP address has been set.



1 Update button

**2** Set the items to apply.

Item name	Description
Software (excluding network settings)	Device settings created in advance will be maintained. However, network settings will not be applied. To change network settings, you have to do so from the Device Setting screen.
Connected device	The settings of an online connected device will be applied.

• Wireless Manager settings are always applied to the link configuration information.

### **Monitoring devices**

### Adding a monitor

Monitors a device selected from the device list.

### Wireless Manager basic use

• This procedure cannot be used on the "Online Device(s)" screen.





**2** Select the device and channels to monitor.



- 1 You can filter the displayed devices with the tags and location.
- 2 Selects/clears the selection of all the channels.
- 3 Selects the device/channel to add.
- Opens the device list. After opening this list, you can select the channels.
- **3** Click "Add".
  - >> The selected device/channel monitor is added to the "Monitor" screen.
- **4** Click "Close" to close the "Import Channel" screen.
- You can drag the monitors to change their layout.



#### **1** Device identifier

Identifies connected devices. Click the icon to make the indicator lamp of the corresponding device flash.

#### **2** Channel

Displays the channel name and number.

#### 3 Tx

Displays the device name, device ID, gain, battery level, usable time of the linked transmitter, and mute state. You can right-click this area to open the device settings of the transmitter.

The battery level percentage is not displayed when the device is being charged via USB.

#### 4 RF

Displays the "RF Power" setting and the RF level. You can right-click this area to open the device settings of the receiver.

#### 5 Audio

Displays the off status of the high-pass filter, the cutoff frequency, and the receiver audio level. You can right-click this area to open the device settings of the receiver.

#### 6 Setting status

Displays the preset name, RF mode, and roaming settings.

#### Wireless Manager basic use



(!)

#### Display size selector

Click this area to switch the display size.

#### 8 Model name

Displays the model name of the receiver.

The displayed usable time is a guideline. Usage for the displayed time is not necessarily guaranteed.

### How to read the charging station monitor





#### Device identifier

Identifies connected devices. Click the icon to make the indicator lamp of the corresponding device flash.

#### 2 Charging station number

Displays the charging station number. When charging stations are linked together, numbers are assigned in order starting from the charging station to which the AC adapter is connected.

#### 3 Charging status

Displays the port number of the charging station as well as the device name, device ID, and charging status of the transmitter along with the time until it finishes charging. You can right-click this area to open the device settings of the transmitter or charging station. Right-click the battery mark to display the "Battery Cycle", "Battery Health", and "Temperature".

Battery Cycle: The count is incremented after the battery is charged to a certain level.

Battery Health: Degree of battery deterioration

Temperature: Battery temperature during charging

#### 4 Model name

(!)

Displays the model name of the charging station.

- The displayed time until charging finishes is a guideline. It may vary depending on the number of transmitters being charged.
- The Battery Cycle, Battery Health, and Temperature are guidelines.
- The time until charging finishes, displayed as a percentage, is a guideline. Therefore, the percentage displayed in the charging station monitor during charging may differ from the percentage displayed for the battery level on the receiver monitor during usage.

### Grouping monitors together

You can group monitors together and assign names and colors to the groups.

- This procedure cannot be used on the "Online Device(s)" screen.
  - While holding down the Ctrl key or the command key, click the monitors to group together.



**2** Click "Group" or right-click one of the selected monitors.

**3** Enter the group name and select the color.

### Wireless Manager basic use

Monitor Group Setting	×
Name Group Name	
Color	
ОК	

### 4 Click "OK".

- >> The selected monitors are grouped together.
- You can ungroup a group of monitors by right-clicking it and selecting the corresponding menu command.
  - Click the group gear mark to display the "Monitor Group Setting" screen.

## Configuring monitor settings

You can set how monitors are displayed.

• This procedure cannot be used on the "Online Device(s)" screen.

### **Click the part indicated with the red frame.**



**2** Configure the monitor settings.

<ul> <li>Saves the current position.</li> <li>Saves the current position.</li> <li>Saves the current position.</li> <li>Select the image file displayed in the background of the monitor. Click "x" to delete the displayed background</li> <li>Sets how the background image is displayed. Certe: The background image is displayed. Certe: The background image is displayed.</li> <li>Stetch: The background image is displayed. The background image is displayed.</li> <li>Certe: The background image is displayed.</li> <li>C</li></ul>	Monitor Settings	∧ ×		
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	Adds a monitor page.			
Ueletes the selected monitor page.	8 Deletes the selected monit	or page.		

**3** Close the "Monitor Settings" screen by clicking the part indicated with the red frame.



# Wireless Manager device settings

## How to open the "Device Setting" screen.

You can open the "Device Setting" screen with the following methods.

### From the menu

Click "Edit" -> "Device" -> "Device Setting".



### From the "Device List" screen

**Click the part indicated with the red frame.** 



### From the "Link Configuration" screen

**1** Right-click the part indicated with the red frame, and then click "Device Setting".

Wireless Manager - New Project     File Edit Tools System Window	lelp		
Device List		Link Co	nfiguration
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System # 01			
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## From a "Monitor" screen

**1** Right-click the part indicated with the red frame, and then click each device setting.

### Wireless Manager device settings



## ESW-R4180LK

## System

Item name	Description
Device ID	Set the receiver's ID number. When using multiple Audio-Technica LINK devices at the same time, set a unique number for each of them.
Device Name	Set the receiver's name.
Location	Display the location name set on the "Link Configuration" screen.
Channel Name	Set the name of each channel.
RF Mode	Set the DECT communication mode. In "HD Mode", lowering the transmission rate of the audio enables simultaneous operation on multiple channels more than when "Standard" is selected.
RF Power	Set the RF power.
LED	Set whether to turn on/off the display of the status and link indicator lamps of the receiver.
Preset Recall LINK	Set whether to link preset recalls between Audio-Technica LINK devices. To do so, it is necessary to set "Preset Recall LINK" to ON on an ATDM series mixer.
Reset to default value	Reset the "System" settings to their default values.
Version	Display the model name, DECT mode <sup>[1]</sup> , firmware version, and DECT ID <sup>[2]</sup> .
AES256 Encryption	Indicate that the data is encrypted by AES256.
Factory Reset	Reset all the receiver settings to their factory defaults.
Reboot	Restart the receiver.

[1] The mode is set to match the country or region in which the device is used. This mode is displayed with a two-digit number.

[2] This is the unique ID of the receiver/transmitter.

### Audio

Item name	Description
All Mute	Mute (red)/unmute (no color) all channels as a batch.
Channel Mute	Mute (red)/unmute (no color) each channel.
Channel Volume	Set the volume of each channel.
High-pass Filter	Turn the high-pass filter off or set the cutoff frequency.
Meter Setting	Pre: Display the input level from the transmitter on the monitor. Post: Display the output level of the receiver on the monitor.
Reset to default value	Reset the "Audio" settings to their default values.

## Network

Item name	Description
Mixer Information	<ul> <li>Mixer Model Name: Identify connected mixers. Click the model name to make the indicator lamp of the corresponding mixer flash.</li> <li>Device ID: Display the device IDs set for mixers.</li> <li>Device Name: Display the device names set for mixers.</li> <li>IP Address: Display the IP address.</li> <li>Topology No: The device's unique identification number that is determined by the connection status of the Audio-Technica LINK-compatible device.</li> <li>Port Number: Display the IP control port number.</li> <li>Multicast Address: Display the address for multicast.</li> </ul>
Remote Control	Level Notification: Set whether to turn on/off notifications of the RF level from the receiver and of the audio level.
Syslog	Set whether to send the log message to the Syslog server. Syslog is a standard for transferring log messages across IP networks. It is used for administration of computer systems and security monitoring.
Mac Address	Display the MAC address.

## ESW-R4180DAN

## System

Item name	Description
Device ID	Set the receiver's ID number. When using multiple receivers at the same time, set a unique number for each of them.
Device Name	Set the receiver's name.
Location	Display the location name set on the "Link Configuration" screen.
Channel Name	Set the name of each channel. You can apply Dante channel labels to the channel names.
Roaming	Display the on/off status of the roaming function.
Roaming Threshold	Set the threshold of the reception level at which the receiver is switched during roaming.
RF Mode	Set the DECT communication mode. In "HD Mode", lowering the transmission rate of the audio enables simultaneous operation on multiple channels more than when "Standard" is selected.
RF Power	Set the RF power.
LED	Set whether to turn on/off the display of the status and link indicator lamps of the receiver.
Reset to default value	Reset the "System" settings to their default values.
Version	Display the model name, DECT mode <sup>[1]</sup> , firmware version, and DECT ID <sup>[2]</sup> .
AES256 Encryption	Indicate that the data is encrypted by AES256.
Factory Reset	Reset all the receiver settings to their factory defaults.
Reboot	Restart the receiver.

[1] The mode is set to match the country or region in which the device is used. This mode is displayed with a two-digit number.

[2] This is the unique ID of the receiver/transmitter.

## Audio

Item name	Description	
All Mute	Mute (red)/unmute (no color) all channels as a batch.	
Channel Mute	Mute (red)/unmute (no color) each channel.	
Channel Volume	Set the volume of each channel.	
High-pass Filter	Turn the high-pass filter off or set the cutoff frequency.	
Meter Setting	Pre: Display the input level from the transmitter on the monitor. Post: Display the output level of the receiver on the monitor.	
Reset to default value	Reset the "Audio" settings to their default values.	

### Network

Item name	Description		
IP Setting	Mode: Set how to obtain IP addresses. Set this to "Auto" to assign IP addresses automatically by, for example, a DHCP server. Set this to "Static" to specify static IP addresses. IP Address <sup>[1]</sup> : Set the IP address. Subnet Mask <sup>[1]</sup> : Set the subnet mask. Gateway Address <sup>[1]</sup> : Set the gateway address. Port Number <sup>[1]</sup> : Display the IP control port number.		
Remote Control	Level Notification: Set whether to turn on/off notifications of the RF level from the receiver and of the audio level. Multicast Address: Set the address for multicast. Multicast Port Number: Set the port number for multicast. Rx Sync Port: Display the port number used in receiver synchronization. Use a number other than this for the Multicast Port Number.		
Syslog	Set whether to send the log message to the Syslog server. Syslog is a standard for transferring log messages across IP networks. It is used for administration of computer systems and security monitoring.		
NTP Setting	Enable: Turn the network time protocol on/off. Server Address <sup>[2]</sup> : Set the server address. Port Number <sup>[2]</sup> : Set the port number. Time Zone <sup>[2]</sup> : Set the time zone. Daylight Saving Time <sup>[2]</sup> : Turn daylight saving time on/off and set the day and time for the start and end of daylight saving time.		
Mac Address	Display the MAC address.		

[1] This can be set when "Mode" under "IP Setting" is set to "Static".

[2] This can be set when "Enable" under "NTP Setting" is set to "ON".

### Dante

Item name	Description
Dante IP Setting	Port Mode: Display the port mode set with Dante Controller. IP Mode: Display the IP mode set with Dante Controller. Dante IP Address: Display the Dante IP address.
Dante Device/Channel Name	Device Name: Display the device name set with Dante Controller. Channel Label: Display the channel name set with Dante Controller.
Dante Information	Display the Dante model and firmware version.
Mac Address (Dante)	Display the MAC address.

## ESW-T4101/ESW-T4102

### System

Item name	Description		
Device ID	Set the transmitter's ID number.		
Device Name	Set the transmitter's name.		
Location	Display the location name set on the "Link Configuration" screen.		
Gain	Set the input gain of the audio input. For the ESW-T4101, set the input gain of the "External Microphone" and "Internal Microphone".		
Mute	Enable/disable the operation when the transmitter is muted.		
Battery Alert <sup>[1]</sup>	If the battery level drops too low, the status indicator lamp flashes. Set when to make this lamp flash by specifying at, approximately, how many minutes before the battery runs out the lamp will flash. <sup>[2]</sup>		
Reset to default value	Reset the "System" settings to their default values.		
Version	Display the model name, firmware version, and DECT ID <sup>[3]</sup> .		
Factory Reset	Reset all the transmitter settings to their factory defaults.		

[1] This is displayed when the device is in a charging station.

[2] The set time is a guideline. This varies depending on usage conditions.

 $\left[ 3\right]$  This is the unique ID of the receiver/transmitter.

## ESW-T4106/ESW-T4107

### System

Item name	Description		
Device ID	Set the transmitter's ID number.		
Device Name	Set the transmitter's name.		
Location	Display the location name set on the "Link Configuration" screen.		
Gain	Set the input gain of the audio input.		
Polar Pattern <sup>[1]</sup>	Set the polar pattern of the microphone		
Reset to default value	Reset the "System" settings to their default values.		
Version	Display the model name, firmware version, and DECT ID <sup>[2]</sup> .		
Factory Reset	Reset all the transmitter settings to their factory defaults.		

[1] This is an ESW-T4106 setting item.

[2] This is the unique ID of the receiver/transmitter.

## Mute

Item name	Description		
Mute functionality	Disable: Disable the mute operation. Enable: Enable the mute operation.		
Mute Mode <sup>[1]</sup>	Set the operation when the talk switch of the transmitter is pressed. Toggle: The device switches between muted and unmuted each time th talk switch is quickly pressed. Touch to Talk: The device is unmuted while the talk switch is pressed. Touch to Mute: The device is muted while the talk switch is pressed.		
Default Mute Setting(Toggle) <sup>[2]</sup>	Set the mute functionality used when the device turns on with "Mute Mode" set to "Toggle". Default Unmute: The device turns on unmuted. Mute: The device turns on muted.		
Mute LED Color	Set the display color of the talk indicator lamp when the device is muted.		
Unmute LED Color Set the display color of the talk indicator lamp when the device unmuted.			
Reset to default value	Reset the "Mute" settings to their default values.		

[1] This can be set when "Mute functionality" is set to "Enable".

[2] This can be set when "Mute Mode" is set to "Toggle".

# ESW-CHG4/ESW-CHG5

## System

Item name	Description		
Device ID	Set the charging station's ID number.		
Device Name	Set the charging station's name.		
Location	Display the location name set on the "Link Configuration" screen.		
Linked Chargers	When offline, set the charging stations to link. When online, display the linked charging stations.		
LED	Set whether to turn on/off the display of the power and status indicator lamps of the charging station.		
Link Button	To prevent incorrect handling, set the operation of the LINK button. Enable: The LINK button is unlocked at all times and can be used. Lock: The LINK button cannot be used when the charging station turns on. Press and hold (approximately 2 seconds) the LINK button to unlock it. This button will be locked again if no operations occur for approximately 5 seconds. Disable: The LINK button is locked at all times and cannot be used. Furthermore, the button cannot be unlocked.		
Reset to default value	Reset the "System" settings to their default values.		
Version	Display the model name and firmware version.		
Factory Reset	Reset all the charging station settings to their factory defaults.		

## Network

Item name	Description		
IP Setting	<ul> <li>Mode: Set how to obtain IP addresses. Set this to "Auto" to assign IP addresses automatically by, for example, a DHCP server. Set this to "Static" to specify static IP addresses.</li> <li>IP Address<sup>[1]</sup>: Set the IP address.</li> <li>Subnet Mask<sup>[1]</sup>: Set the subnet mask.</li> <li>Gateway Address<sup>[1]</sup>: Set the gateway address.</li> <li>Port Number<sup>[1]</sup>: Display the IP control port number.</li> </ul>		
Remote Control	Multicast Address: Set the address for multicast. Multicast Port Number: Set the port number for multicast. Rx Sync Port: Display the port number used in receiver synchronization. Use a number other than this for the Multicast Port Number.		
Syslog	Set whether to send the log message to the Syslog server. Syslog is a standard for transferring log messages across IP networks. It is used for administration of computer systems and security monitoring.		
NTP Setting	<ul> <li>Enable: Turn the network time protocol on/off.</li> <li>Server Address<sup>[2]</sup>: Set the server address.</li> <li>Port Number<sup>[2]</sup>: Set the port number.</li> <li>Time Zone<sup>[2]</sup>: Set the time zone.</li> <li>Daylight Saving Time<sup>[2]</sup>: Turn daylight saving time on/off and set the day and time for the start and end of daylight saving time.</li> </ul>		
Mac Address	Display the MAC address.		

[1] This can be set when "Mode" under "IP Setting" is set to "Static".

[2] This can be set when "Enable" under "NTP Setting" is set to "ON".

# **Default value lists**

## ESW-R4180LK

Category	Item name		Default value
System	Device ID Device Name		0
			BLANK
	Location		BLANK
	Channel Name	Ch1	CH 1
		Ch2	CH 2
		Ch3	CH 3
		Ch4	CH 4
		Ch5	CH 5
		Ch6	CH 6
		Ch7	CH 7
		Ch8	CH 8
	RF Mode		Standard
	RF Power		Mid
	LED		ON
	Preset Recall LINK		OFF
Audio	Channel Volume		0 dB
	High-pass Filter		OFF
	Meter Setting		Post
Network	Remote Control Level Notification		ON
	Syslog		OFF

### ESW-R4180DAN

### Wireless Manager device settings

Category	Item name	Item name	
System	Device ID		0
	Device Name		BLANK
	Location		BLANK
	Channel Name	Ch1	CH 1
		Ch2	CH 2
		Ch3	CH 3
		Ch4	CH 4
		Ch5	CH 5
		Ch6	CH 6
		Ch7	CH 7
		Ch8	CH 8
	Roaming		OFF
	Roaming Threshold	Roaming Threshold	
	RF Mode	RF Mode	
	RF Power	RF Power	
	LED	LED	
Audio	Channel Volume	Channel Volume	
	High-pass Filter	High-pass Filter	
	Meter Setting	Meter Setting	
Network	IP Setting	Mode	Auto
		IP Address	192.168.0.20 <sup>[2]</sup>
		Subnet Mask	255.255.255.0 <sup>[2]</sup>
		Gateway Address	192.168.0.1 <sup>[2]</sup>
	Remote Control	Level Notification	ON
		Multicast Address	239.0.0.100
		Multicast Address Port Number	17000
	Syslog	Syslog	
	NTP Setting	Enable	OFF
		Server Address	192.168.0.40 <sup>[3]</sup>
		Port Number	123 <sup>[3]</sup>
		Time Zone	00:00 <sup>[3]</sup>
		Daylight Saving Time	OFF <sup>[3]</sup>
Dante	Dante IP Setting	Port Mode	Single Cable
		IP Mode	Auto

[1] This is the default value when "Roaming" is set to "ON".

- [2] This is the default value when "Mode" under "IP Setting" is set to "Static".
- [3] This is the default value when "Enable" under "NTP Setting" is set to "ON".

## ESW-T4101

Category	Item name		Default value
System	Device ID		0
	Device Name Location		BLANK
			BLANK
	Gain External Microphone		0 dB
		Internal Microphone	0 dB
Mute			Enable
	Battery Alert		OFF

# ESW-T4102

Category	Item name	Default value
System	Device ID	0
	Device Name	BLANK
	Location	BLANK
	Gain	0 dB
	Mute	Enable
	Battery Alert	OFF

## ESW-T4106

Category	Item name	Default value
System	Device ID	0
	Device Name	BLANK
	Location	BLANK
	Gain	0 dB
	Polar Pattern	Cardioid
	Battery Alert	OFF
Mute	Mute functionality	Enable
	Mute Mode	Toggle
	Default Mute Setting(Toggle)	Default Unmute
	Mute LED Color	Red
	Unmute LED Color	Green

## ESW-T4107

Category	Item name	Default value
System	Device ID	0
	Device Name	BLANK
	Location	BLANK
	Gain	0 dB
	Battery Alert	OFF
Mute	Mute functionality	Enable
	Mute Mode	Toggle
	Default Mute Setting(Toggle)	Default Unmute
	Mute LED Color	Red
	Unmute LED Color	Green

## ESW-CHG4/ESW-CHG5

Category	Item name		Default value
System	Device ID		0
	Device Name		BLANK
	Location		BLANK
	LED		ON
	Link Button		Enable
Network	IP Setting	Mode	Auto
		IP Address	192.168.0.20 <sup>[1]</sup>
		Subnet Mask	255.255.255.0 <sup>[1]</sup>
		Gateway Address	192.168.0.1 <sup>[1]</sup>
	Remote Control	Multicast Address	239.0.0.100
		Multicast Address Port Number	17000
	Syslog		OFF
	NTP Setting	Enable	OFF
		Server Address	192.168.0.40 <sup>[2]</sup>
		Port Number	123 <sup>[2]</sup>
		Time Zone	00:00 <sup>[2]</sup>
		Daylight Saving Time	OFF <sup>[2]</sup>

[1] This is the default value when "Mode" under "IP Setting" is set to "Static".

[2] This is the default value when "Enable" under "NTP Setting" is set to "ON".
# **Other functions**

## **Transmitter multi registration**

Multi registration is a function for registering multiple transmitters to a single channel.

• This function is useful because it allows you to immediately switch to a different transmitter when the battery of the one in use dies.



- Among multiple transmitters that have been registered, you can specify one transmitter to link and save this as a preset in advance. Refer to "Presets" (p. 110) for details.
  - You cannot link a transmitter to a channel to which a transmitter has already been linked. To switch between transmitters, turn off the linked transmitter, and then turn on the transmitter to link. Alternatively, recall a preset in which the combination containing the transmitter to link is saved (p. 113).
  - If you attempt to simultaneously connect multiple transmitters that have been registered, the first transmitter that connects to the receiver is linked.

#### Adding a transmitter area

When registering multiple transmitters, add transmitter areas.

#### **Other functions**

• One system can have up to six transmitter areas.

Ch			Transmitter		
	Identify	Sync	Model Name	ID	
01	$\odot$		T4102	9	
02	$\odot$		T4102	10	
03	۰		T4102	11	Тγ
04	$\odot$		T4102	12	+
05	$\odot$		📩 T4101	13	
06	$\odot$		📩 T4101	14	
07	$\odot$		📩 T4101	15	
08	$(\mathbf{I})$	0	<sup>•</sup> T4101	16	

#### **1** Click the part indicated with the red frame on the "Link Configuration" screen.

>> A transmitter area is added, allowing you to register multiple transmitters.

### **Presets**

Among multiple transmitters that have been registered, you can specify one transmitter to link and save this as a preset.

- Presets are useful in that you can create one for each location or situation.
- The Mix Out setting is also saved to presets.
- When a preset has been recalled, you cannot link to transmitters that are not specified by this preset.



### Creating a new preset/editing an existing preset

#### Click "Make Preset" on the "Link Configuration" screen.

• To edit the recalled preset, click "Edit Preset".

Primar	y Tab	le		Re	call Pre	eset 🛛 🚺	Manage	e Preset	ke Preset	]
		Receiv	/er		Ch			Transmitter		$\Box$
Identify S	iync	Model Name	ID 🗸	IP Address 🗸		Identify	Sync	Model Name	ID	lde
<b>()</b>	9	R4180DAN		169.254.39.96		۲		<u>)</u> T4107		1
						$\mathbf{\tilde{s}}$		<u>)</u> T4107		1
						۲		<u>)</u> T4107		13
					04	$\odot$		<u>)</u> T4107	4	13
					05	$\odot$		<u>)</u> T4107		
					06	$\odot$		<u>)</u> T4107		
						$\mathbf{\tilde{s}}$		<u>)</u> T4107		
					08	۰		<u>)</u> T4107	8	
						$\langle -$				

### **2** Select the transmitter for each channel to save in the preset.

• Red frames are displayed around the selected transmitters. You can select one transmitter for each channel.

Ch		Transmitter					Fransmitter		Θ
	Identify	Sync	Model Name	ID	Identify	Sync	Model Name	ID	Ider
01	()		<u>)</u> T4107		۲	<b>S</b>	T4102	9	3
02	$(\mathbf{x})$		<u>)</u> T4107	2	۲	0	T4102	10	3
03	$\mathbf{x}$		<u>)</u> T4107		$\odot$	0	T4102	11	3
04	$\odot$	<b>S</b>	<u>)</u> T4107	4	$\odot$	0	T4102	12	3
05	$\odot$	0	<u>)</u> T4107	5					
06	۲	<b>S</b>	<u>)</u> T4107	6					
07	۲	<b>S</b>	<u>)</u> T4107	7					
08	$\odot$	0	<u>)</u> T4107	8					

• Click a selected transmitter to clear this selection.

### **3** As necessary, set the mix out.

• Refer to "Setting the mix out" (p. 84) for details.

### **Other functions**



#### 4 Click "Save As".

• To overwrite the recalled preset, click "Save".



**5** Set the preset number and name on the "Save Preset" screen.



3 Closes the screen without saving the preset.

6 Click "Save".

### **Recalling a preset**

Recall a saved preset.

Click "Recall Preset" on the "Link Configuration" screen.



### **2** Select the preset to recall.

• If you will not recall a preset, select "Primary Table".



**3** Click "Apply".

**4** Click "Close" to close the "Recall Preset" screen.

### Managing presets

Delete saved presets and change preset names.



Click "Manage Preset" on the "Link Configuration" screen.

Primary Ta	ble		Re	call Pre	eset	Manage	e Preset   Ma	ke Preset	)
	Receiv	/er		Ch			Transmitter		
Identify Sync	Model Name	ID V	IP Address 🍾		Identify	Sync	Model Name	ID	Ider
🗵 📀	R4180DAN		169.254.39.96		۲		<u>)</u> T4107		3
				02	۰.		<u>)</u> T4107	2	3
					۲		<u>)</u> T4107		3
				04	۰.		<u>)</u> T4107	4	3
				05	۰		<u>)</u> T4107		
				06	۲		<u>)</u> T4107		
					۲		<u>)</u> T4107		
				08	۰		<u>)</u> T4107	8	
					$\langle$				

### **2** Delete presets and change preset names.

• The currently recalled preset cannot be deleted.



**3** Click "Close" to close the "Manage Preset" screen.

### Roaming mode (ESW-R4180DAN only)

Register multiple receivers as one roaming group.

- You can use one transmitter in multiple rooms without switching between transmitters.
- If the link is disconnected because the distance to the receiver is too large when moving around holding the transmitter, the receiver with the best communication status in the roaming group is automatically searched for and linked to.
- You can adjust the timing with which the receiver is switched by setting the roaming threshold.
- You can set up to five receivers in one roaming group.
- When a transmitter restarts, it is linked to the receiver with the best communication status at that time. When moving between rooms, it is recommended to restart the transmitter.



### Switching to roaming mode

Click "Roaming On" on the "Link Configuration" screen.



**2** Click "OK" on the confirmation message.

- **3** Click "Unsynced Device" or the import button.
- **4** Drag the receivers to add to roaming to the "Receiver Roaming Group".
- **5** Click "OK" to close the confirmation message.

• To cancel roaming mode, remove receivers until there is only one registered, and then click "Off".

### Configuring roaming settings

Configure the RF and audio settings in roaming mode. The configured roaming settings are shared between multiple receivers. Roaming setting items cannot be configured on the "Device Setting" screen.

#### Switch to roaming mode.

2 Click "Setting" next to "Receiver Roaming Group".



**3** Configure the RF settings.

Roaming Setting				≽ ×
RF			Audio	
Roaming RF Mode	ON Standard V	RF Power	Mid	>
Reset to default value	Reset Value			
			Apply	Close

Item name	Description
Roaming	Turn the roaming function on/off.
RF Mode	Set the DECT communication mode. In "HD Mode", lowering the transmission rate of the audio to narrow the occupied bandwidth of the radio wave enables simultaneous operation on multiple channels more than when "Standard" is selected.
RF Power	Set the RF power.
Reset to default value	Reset the RF settings to their default values.

### 4 Click "Apply".

### 5 Click "Audio".



### **6** Configure the audio settings.

Roaming Setting								∧ ×
		RF				Audi	0	
							C	🖉 All Mute
	Ch 1	Ch 2	Ch 3	Ch 4	Ch 5	Ch 6	Ch 7	Ch 8
Channel Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute	Mute
Channel Volume	dB	0 📮 dB	0 📮 dB	0 🌲 dB	0 ↓ dB	0 🏮 dB	d₿	0 🏮 dB
High-pass Filter	OFF 💙 Hz	OFF 🔶 Hz	OFF ~ Hz	OFF 🔶 Hz	OFF ~ Hz	OFF 🌱 Hz	OFF 🔶 Hz	OFF 🔶 Hz
Meter Setting	Pre O Post O							
Reset to def	fault value	Rese	et Value					
								Close

#### **Other functions**

Item name	Description
All Mute	Mute (red)/unmute (no color) all channels as a batch.
Channel Mute	Mute (red)/unmute (no color) each channel.
Channel Volume	Set the volume of each channel.
High-pass Filter	Turn the high-pass filter off or set the cutoff frequency.
Meter Setting	Pre: Display the input level from the transmitter on the monitor. Post: Display the output level of the receiver on the monitor.
Reset to default value	Reset the audio settings to their default values.

7

Click "Close" to close the "Roaming Setting" screen.

**8** If it is necessary to adjust the receiver and transmitter connection range, set the roaming threshold of the receiver.

- The higher the roaming threshold, the narrower the receiver and transmitter connection range.
- You can set the roaming threshold on the receiver's "Device Setting" screen. Refer to "Wireless Manager device settings" (p. 93) for details.

# Setting the location name

As necessary, set the name of the location where this system is installed.

Click the part indicated with the red frame on the "Link Configuration" screen.



**2** Add a location.

#### **Other functions**



" The changed location details are applied.

- 4 Click "Close" to close the "Location Management" screen.
- **5** Click the part indicated with the red frame next to "Location" and select the location from the list.

Wirele	ess Manag	er - New F	roject		
File E	dit Tools	System	Window	Help	
	Dev	ice List			
Location	Location0	1		~ <b>0</b>	
Location01 System # Location02 Drivers Table					

### Setting charging station port assignments

Port assignments are settings that assign receiver channels to charging ports on charging stations. These settings indicate which channels to register transmitters to when transmitters are inserted into charging ports and the LINK button on the charging station is pressed to configure the link.

• You have to register charging stations in advance on the "Link Configuration" screen.

#### Click "Set" on the "Link Configuration" screen.



#### **2** Set the port assignments.



Select the charging station.

2 Displays information such as the device ID of the selected charging station.

3 Displays information such as the device ID of the receiver that will be made to register the transmitter.

4 Channels are assigned in order starting from "Port 01" on the charging station to which the AC adapter is connected.

5 Select the channel to assign.

#### **3** Click "Apply".

**4** Click "Close" to close the "Charger Link Button Configuration" screen.

## **Configuring links with the LINK button**

You can use the LINK button on a charging station to configure the link to a transmitter. Use this function in an emergency when you have to configure the link to the transmitter without using Wireless Manager.

• You have to set charging station port assignments in advance in Wireless Manager. Refer to "Setting charging station port assignments" (p. 120) for details.

Insert into the charging station the transmitter whose link will be configured.

**2** Press and hold (approximately 3 seconds) the LINK button.

- If charging stations are linked together, links will be configured to all the inserted transmitters when the LINK button on any charging station is pressed and held (approximately 3 seconds).
- The power indicator lamp lights alternately in green and blue, and then the charging indicator lamp flashes.

Status indicator lamp display	Link configuration
Flashing in green (three times)	Registration success
Flashing in red (five times)	Registration failure

• If you configure a link to a transmitter with the LINK button of a charging station, the transmitter will be registered to a transmitter area different from the normal transmitter area.

### LINK button lock

 $\square$ 

You can use the "Link Button" setting under "Device Setting" to lock and disable the LINK button. Refer to "Wireless Manager device settings" (p. 93) for details on "Device Setting".

# Menus

# Menu list

# File

Item name	Description
New Project	Create a new project file.
Open Project	Open a project file.
Open Recent Project	Open the most recently opened project file.
Save	Save the current project over an already open project file.
Save As	Name the current project and save as a project file.
Import	Device List: Import a device list. Model Profiles: Import a model profile.
Export	Device List: Export a device list as a json or csv file. Model Profiles: Export a model profile. Channel List Report <sup>[1]</sup> : Export the channel list from the "Frequency Coordination" screen as a pdf or csv file.
Project Properties	General: Configure the access restrictions, editing authority settings, initial monitor screen, display settings for the Link Configuration screen, and multi-point receiver function. Monitor: Set the contents displayed in alerts and the log details. Show: Set the project and venue information.
Close	Close Wireless Manager.

[1] This is not used with this system.

# Edit

Item name	Description
Device	Add: Add a device to the device list. Delete: Delete a device from the device list. Device Setting: Configure the settings for devices. All Sync. Off: Turn off sync for all devices. Profiles <sup>[1]</sup> : Edit a model profile.
Channel <sup>[1]</sup>	Import from Device List: Import a channel from the device list. Delete: Delete a channel from the channel list.

[1] This is not used with this system.

# Tools

Item name	Description
Timed Walk Test	Launch the walk test tool. Refer to "Walk test" (p. 125) for details.
DECT RF Scan	Use one receiver to scan the surrounding DECT operation status. Refer to "DECT RF scan" (p. 127) for details.
Cable Loss <sup>[1]</sup>	Easily calculate the attenuation due to cable length.
Max Channel Calculation <sup>[1]</sup>	Calculate roughly how many channels can be achieved in an ideal or real- world RF environment.
Device ID Auto Allocation	Automatically assign all device IDs at once to avoid duplication. Refer to "Assigning device IDs automatically" (p. 129) for details.
Firmware Update	Launch the Wireless Firmware Update Tool. Refer to "Updating the firmware" (p. 130) for details.

[1] This is not used with this system.

# System

Item name	Description
Preferences	Display the "Preference" screen. Refer to "Configuring preferences" (p. 135) for details.
Language	Switch the language between English and Japanese. To switch the language, Wireless Manager will have to restart.
Change to edit mode	Switch from editing restriction state to editable state.

# Window

Item name	Description
Unsynced Devices	Among all the connected devices that are recognizable as online, display those devices that are not synchronized in the device list.

# Help

Item name	Description
Help	Display the Wireless Manager user manual.
Wireless Manager Updates	Check the Wireless Manager update status.
About	Display information on Wireless Manager.

# Walk test

Using the walk test function will record the selected device's RF level.



On the menu, click "Tools" -> "Timed Walk Test".

2 Click "Set Device".



**3** Select the device and channels to use in the walk test.



- **4** Click "Apply".
- **5** Set the walk test time.

- Timed Walk Text
   Image: Convention

   Image
- You can set a time of up to 10 minutes.

**6** Click "Start" once all the settings are complete.

Timed Walk Test	∧ ×
-40.0 -60.0 -00.0	Time 0130 Sec Diversity ANT A ANT B Comment
-100.0 -120.0 0 10 20 30 40 50 60	
Q, Q, Q % \$ Sect_Place   Delese Print [	Import Export
Model Name(Band)   Time   Rx   Channel Name   Frequency   RF Power   Note:	

>> The walk test starts.



• This function displays the value based on the RF level (every 1 second) obtained by the receiver.

### **DECT RF scan**

Scan the surrounding DECT operation status and calculate the approximate number of usable transmitter channels when using one receiver.



On the menu, click "Tools" -> "DECT RF Scan".

2 Click "Sel Rx".

DECT RF Scan							∧ ×
Real Time				Peak Hold :			Measurement Duraion           Image: Continuous           Image: Continuous           Image: Continuous
- The May Channel Co	-1%			May Channel Co	-1%		Selected Device Model Name : DECT mode :
Model	Standard	HD mode		Model	Standard	HD mode	Legend
R4180DAN	Standard	HD HIGGE		R4180DAN	Standard	HD HIDde	Busy
	1				I		Free
Sel Rx Sta							
Peak Hold History							
							Close

**3** Select the device to use in the DECT RF scan.



4 Click "Select".

#### **5** Set the "Measurement Duration".

- If you will not set the time, select the "Continuous" check box.
- If you will set the time, select the "Hours" check box and enter the time. You can set a time of up to 99 hours.

DECT RF Scan						∧ ×
Real Time			Peak Hold :			Measurement Duraion C Continuous Hours
Max Channel Count			Max Channel Co	-1%	Selected Device Model Name : ESW-R4180DAN DECT mode : 00	
Model	Standard	HD mode	Model	Standard	HD mode	Legend
R4180DAN			R4180DAN			Used
						Free
Sel Rx Sta	rt Pause					
						Close

**6** Click "Start" once all the settings are complete.

DECT RF Scan						🔺 ×
Real Time			Peak Hold :			Measurement Duraion
			-11%			Selected Device Model Name : ESW-R4180DAN DECT mode : 00
Max Channel Cou	int		Max Channel Co	unt Le: i i		Legend
Model R4180DAN	Standard	HD mode	Model R4190DAN	Standard	HD mode	Busy
IN TOODAIN			INTIODAN	I		Used
Sel Rx Star	rt Pause					
						Close

#### >> The DECT RF scan starts.

• If you close Wireless Manager during the scan, you may not be able to recover the scan. In this situation, restart the receiver.

### How to view the results of the DECT RF scan

When the DECT RF scan finishes, the surrounding DECT operation status is displayed as a percentage.

#### Menus

- The real-time measured value and lowest value (the value when Free was the smallest during the measurement period) are displayed.
- The guideline for the number of channels is displayed for the case when "RF Mode" is "Standard" and the case when it is "HD Mode".

DECT RF Scan				∧ ×
Real Tin	ne	Peak Hold : Apr 18 14:24	:32 2022	Measurement Duraion
6% %	93%	7% % 929	%	Selected Device Model Name : ESW-R4180DAN
Max Chan	inel Count	Max Channel Count	UD state	DECT mode : 00 Legend
R4180D	AN 99 - 105 Ch 185 - 196 (	Ch R4180DAN 98 - 105 Ch	h 184 - 196 Ch	Busy Used Free
Sel Rx	Stop Pause	Clear Print		
Peak Hold H	listory			
	18 14:24:32 2022 1 %	Used Free 7 % 92 %		
2 Apr	18 14:24:30 2022 1 %	6% 93%		
3 Apr	18 14:24:29 2022 1 %	5 % 94 %		
				Close

#### **1** Pause

Pauses the DECT RF scan.

#### 2 Clear

Deletes the record.

#### 3 Print

You can output the lowest value graph to a PDF.

#### 4 Legend

PHS: Transmitter channels cannot be used because PHS was detected.

Busy: Transmitter channels cannot be used because another device is in operation.

Used: A low level of interference was detected. This legend item is used when the number of used channels is insufficient.

Free: Transmitter channels can be used.

### Assigning device IDs automatically

- On the menu, click "Tools" -> "Device ID Auto Allocation".
- **2** Set how to assign device IDs.



- 1 Assign device IDs to all devices using serial numbers.
- 2 Assign device IDs for each device model using serial numbers.
- 3 Assign device IDs only to devices with a device ID of "O".
- 4 Audio-Technica LINK compatible devices are excluded from the assignment.

**3** Click "Run".

>> Device IDs will be assigned.

4 Click "Close" to close the "Device ID Auto Allocation" screen.

## Updating the firmware

Use this procedure to update the firmware of the receiver, charging station, and transmitter to the latest version.

On the menu, click "Tools" -> "Firmware Update".

>> The Wireless Firmware Update Tool will launch.

- An internet connection is necessary to download the firmware.
  - There are two types of the ESW-R4180DAN: the "ESW-R4180DAN" and the "ESW-R4180DAN (S-1)". The firmware differs between these two receivers. Although incorrect firmware will not install, it is best to confirm your receiver type before updating the firmware. You can check the type of your receiver by consulting the rating label on the back of the unit. For the "ESW-R4180DAN (S-1)", "S-1" is written on this label. You can also check the type of the receiver by viewing the "Version" section of the "Device Setting" screen in Wireless Manager.

#### Downloading the firmware

Find and download available firmware updates for each device.

#### Menus

#### Current download statuses are displayed.

- Click "Download" or "Install" to switch between the two tabs.
- The latest firmware version for each device is displayed.

	Download	1		Install	
	—				는 Download all 이
	Type	The Latest Version	Downloaded Version		
ESW-R4180DAN			No downloaded file		🗄 Download
ESW-R4180DAN			No downloaded file		🛓 Download
ESW R4180LK			No downloaded file		🛓 Download
ESW-CHGs			No downloaded file		🗄 Download
ESW-TXs			No downloaded file		🛓 Download
ATW-R1440			No downloaded file		🛓 Download
			No downloaded file		🛓 Download
ATW-CHG3N			No downloaded file		🛓 Download
	Model Hame ESW-R4180DAN ESW-R4180DAN ESW-R4180DAN ESW-CHGS ESW-CHGS ATW-R1400 ATW-7140x5 ATW-CHG3N	Model Rame Type ESW-R4180DAN S-1 ESW-R4180DAN S-1 ESW-R463 ESW-736 ATW-R1400 ATW-7140as ATW-7140as	Model Nume         Type         The Land Vacan           ESW-R41800AN         1.1.1           ESW-R41800AN         5-1           ESW-R41800AN         5-1           ESW-R41800AN         5-1           ESW-R41800AN         5-1           ESW-R41800AN         5-1           ESW-Chies         1.1.1           ESW-TAN         1.2.0           ATW-R1440         1.0.11           ATW-R1400         1.0.3           ATW-CHOBIN         3.0.0	Model Nume         Type         The Land Vacan         Councilability Vacan           ESW-R41800AN         1.1.1         No downloaded file           ESW-R41800AN         5-1         10.0         No downloaded file           ESW-R41800A         5-1         10.0         No downloaded file           ESW-R41800A         5-1         11.0         No downloaded file           ESW-R41800A         1.1.1         No downloaded file           ESW-R41800A         10.011         No downloaded file           ATW-R440         10.011         No downloaded file           ATW-R1400         10.3         No downloaded file           ATW-CHGBN         30.0         No downloaded file	Model Nume         Tige         The Land Version         Develoated Version           ESW-R4180DAN         1.1.1         No downloaded file           ESW-R4180DAN         5-1         1.0.0         No downloaded file           ESW-R4180DAN         5-1         1.0.0         No downloaded file           ESW-R4180DAN         5-1         1.0.0         No downloaded file           ESW-R4180DA         1.1.1         No downloaded file           ESW-R4180DA         1.0.11         No downloaded file           ATW-R1440         1.0.11         No downloaded file           ATW-R1400r         1.0.3         No downloaded file           ATW-CHG3N         3.0.0         No downloaded file

- 1 Displays the latest firmware version.
- 2 Displays a signifier to distinguish between different model types. Check the type of the device you are using.
- **3** This is common firmware for charging stations.
- 4 This is common firmware for transmitters.
- **5** Displays previously downloaded firmware versions.
- 6 Click the icon to connect to our company website and display information about the latest firmware.
- Olick the button to close the "Wireless Firmware Update Tool" screen.

#### 2 Click "Download all" or "Download".

- These can be clicked if an updated version is available.
- Click "Download all" to download firmware for all devices at once.
- Click "Download" to download firmware for individual devices.

Wireles	Wireless Firmware Update Tool									
		Download			Install					
					🛓 Download all D					
	ESW-R4180DAN			No downloaded file	ط Download					
	ESW-R4180DAN			No downloaded file	ط Download					
	ESW-R4180LK			No downloaded file	ٹ Download					
				No downloaded file	ط Download					
				No downloaded file	ف Download					
				No downloaded file	ط Download					
				No downloaded file	ٹ Download					
	ATW-CHG3N		3.0.0	No downloaded file	🛓 Download					

>> The firmware download will start. Please wait until the download is complete.

# Installing the firmware

Install the downloaded firmware to the device.



#### Current installation statuses are displayed.

• Click "Download" or "Install" to switch between the two tabs.

٧	Vireless Fir	mware Update Tool							∧ ×	
									c—	-0
			Downloa	d				Install		
			A Wh	en installing	firmware, please do not disconnect	devices or rer ove t	hem fro	m chargers.		2
			Type			Current Version		Downloaded Version 🗸		3
		ESW-CHG4[linked]							Add to Queue	
									Add to Queue	
									Add to Queue	
									Add to Queue	
		ESW-R4180LK			ATDM-0604a[169.254.73.154][A00				Add to Queue	
	For	ced Update Mode							Close	-0

- 1 Click the icon to refresh the display.
- 2 Displays the current firmware version of the device.
- 3 Displays downloaded firmware versions.
- 4 Click the button to close the "Wireless Firmware Update Tool" screen.
- **2** Select devices to install the firmware by clicking "Add to Queue".



#### Menus

#### **3** Click "Install Queued".

#### **4** Click "OK".

#### >> Firmware installation will start. Perform the installation by following the on-screen instructions.

#### **5** Installation results will be displayed once installation is complete.

- If "Error" is displayed, the installation has failed. If the "Retry" button is enabled, restart the firmware installation. If the "Retry" button is disabled, a malfunction may have occurred. In this situation, contact your local Audio-Technica dealer.
- If "Missing" is displayed, the installation has failed. Make sure that the network is connected properly. Also
  make sure that the transmitter has been inserted properly into the charging station. If the info icon is displayed
  next to "Missing", also check this icon. After checking all these items, click the update button in the upperright corner of the screen to carry out the installation again. Perform a forced update if the device cannot be
  detected. If the firmware update process is interrupted, "Unknown Tx" may appear as the model name for the
  transmitter. This is normal, so please reinstall the update.

#### • When installing the firmware, make sure that the transmitter is inserted into the charging station.

- When installing, do not remove the transmitter from the charging station.
- Dirt easily adheres to the charging terminals of the transmitter and charging station. The firmware update operation may fail if these products are used with dirty terminals. If these terminals are dirty, wipe away this dirt with a cotton swab or something similar. Be careful not to apply too much force when doing so.
- The transmitter battery will continue to drain if the firmware installation fails. If the transmitter is left as is, its battery will drain until it is almost empty, at which point it will not be possible to install the firmware, so immediately carry out the installation again.
- To enable installation again on a transmitter whose battery is almost empty, insert the transmitter into the charging station and perform preliminary charging. During preliminary charging, one status indicator lamp on the charging station flashes in red.

# When firmware installation fails and the device is not detected (forced update mode)

If firmware installation fails, the device may not be detected by Wireless Manager. However, running forced update mode in this situation will enable the device to be detected.

#### Set the IP address of the PC to the same segment other than "192.168.0.20/24".

• If the firmware installation fails, the failed device will start up on "192.168.0.20/24". Therefore, the PC must be set to the same segment other than "192.168.0.20/24".

• It is necessary to manually switch the charging station to forced update mode. With the charging station off, press and hold its reset button and turn it on. Continue to hold down the reset button (for approximately 10 seconds) and release it when the power indicator lamp flashes in blue. The charging station switches to forced update mode.

2 (	n the "Wireless	Firmware Update	e Tool" screen,	, click "Forced	Update Mode".
-----	-----------------	-----------------	-----------------	-----------------	---------------

Wireless Fi	irmware Update Tool							∧ ×
								G
		Download					Install	
		A Milion in						
		- when it	stanning	minware, please do not di	Isconnect devi		in chargers.	
23	ESW-CHG4[linked]			169.254.241.12		0		Add to Queue
	ESW-T4101			CHG4[169.254.241		0		Add to Queue
2				CHG4[169.254.241		()		Add to Queue
8	ESW-T4106			CHG4[169.254.241				Add to Queue
8	ESW-R4180LK			ATDM-0604a[169.254.73	.154][A001]			Add to Queue
		٦						
Fo	rced Update Mode							Close

#### **3** Select a device.

• When a connection with the device is established, "Established" is displayed for "Device Connection".



#### 4 Click "Start".



#### Menus

- >> Forced update mode will start.
- **5** Once forced update mode finishes, click "Close".
  - If an error occurs, restart forced update mode.



#### Restart firmware installation.

• Refer to "Installing the firmware" (p. 132) for details.

## **Configuring preferences**

Configure Wireless Manager settings.



2 Set each item.

Preference	🔺 ×
Check for Updates	
Automatically (on Startup)	
O Manually	
Directory to save Wireless Manager Installer	
C:/Users/h_matsubara/Downloads Browse	
Main Tab Preference	
Hide Frequency Coordination Tab	
Hide Link Configuration Tab	
Unit Preference	
O Celsius	
O Fahrenheit	
Select Region to add TV Channels on the Enlarged Graph Display	
Area Asia ~ Country Japan ~	
	Apply Close

### Menus

Item name	Description
Check for Updates	Set how to check for Wireless Manager updates.
Directory to save Wireless Manager Installer	Set the folder in which to save installer files when updating Wireless Manager.
Main Tab Preference	Set whether to show/hide the "Frequency Coordination" and "Link Configuration" tabs.
Unit Preference	Set the temperature unit.
Select Region to add TV Channels on the Enlarged Graph Display <sup>[1]</sup>	Set the default area for the TV channel settings of the "Frequency Coordination" screen.

[1] This is not used with this system.

# **3** Click "Apply".

#### » The settings are applied.

4 Click "Close" to close the "Preferences" screen.

ESW-R4180LK uses Audio-Technica's proprietary format, "Audio-Technica LINK", to transmit audio signals and supply power between devices.

- Daisy-chain connection enables multichannel transmission.
- High-speed, low-latency signal transmission enables stable control and transmission of uncompressed multichannel audio signals.
- Multichannel audio signals from the ESW-R4180LK can be discretely assigned to mixer input channels.
- High-level connectivity is possible using general-purpose LAN cable that complies with the Ethernet standard.
- For the LAN cable, make sure to use a Cat. 5e or higher, shielded cable with conductor size of 24AWG or greater in diameter.

• Connections with the ATUC-50 series or ATUC-IR series are not possible.

# **Dante Controller**

The ESW-R4180DAN is compatible with Dante network audio.

You can use Dante Controller (an application provided by Audinate) to set I/O on Dante devices. Refer to the Audinate website (https://www.audinate.com/) for details on Dante Controller.

# **Indicator lamp displays**

# Receivers

### Status indicator lamp

Indicator lamp display	Status
Lit in green	The device is on.
Lit in red	Even though "Dante IP Setting" -> "Port Mode" is set to "Split", nothing is connected to the network B port.
Flashing in red	The device is starting or multiple receivers are being synchronized again.
Flashing slowly in green (ESW- R4180DAN only)	There are duplicate IP addresses.

# Link indicator lamp

Indicator lamp display	Status
Lit in green	The link has been established.
Lit in red	The link to the transmitter has not been configured.

### Status indicator lamp/link indicator lamp

Indicator lamp display	Status
Flashing in green (status) Flashing in red (link)	The DECT RF scan or walk test is in progress.
Flashing in red (status) Flashing in red (link)	The receiver is not operating normally.

# **Transmitters**

### Status indicator lamp

Indicator lamp display	Status
Lit in red	The link has been established, and the device is muted.
Lit in green	The link has been established, and the device is unmuted.
Flashing quickly in red	The link to the transmitter has not been configured.
Flashing in red	The device is searching for the receiver to link to.
Flashing in orange or yellow	There is no battery power. The device will turn off within 30 minutes. <sup>[1]</sup>
Flashing in the color the lamp lights in when the device is muted/unmuted	The battery level is low. The device will turn off within 60/90/120 minutes. [1][2]

[1] The time is a guideline. It varies depending on usage conditions.

[2] This function is turned off with the factory default settings. You can set the time to 60/90/120 minutes with "Battery Alert" under "Device Setting". Refer to "Wireless Manager device settings" (p. 93) for details on "Device Setting".

# **Charging stations**

### Power indicator lamp

Indicator lamp display	Status
Lit in green	The device is on (connected to the network).
Lit in blue	The device is on (not connected to the network).
Lit alternately in green/blue	The number of charging stations that can be linked has been exceeded.
Flashing slowly in green	There are duplicate IP addresses.

### Status indicator lamps

Indicator lamp display	Status
Four lamps flashing in red in order	The device is preparing for charging.
One lamp lit in red	Charging is in progress (0% to less than 25%).
Two lamps lit in red	Charging is in progress (25% to less than 50%).
Three lamps lit in red	Charging is in progress (50% to less than 75%).
All four lamps lit in red	Charging is in progress (75% to less than 100%).
All four lamps lit in green	Charging is complete.
One lamp flashing in red	A communication failure <sup>[1]</sup> has occurred/preliminary charging <sup>[2]</sup> is in progress.
All four lamps flashing in red	A charging defect has occurred, preventing charging.
All four lamps flashing in green	Because a contact failure <sup>[3]</sup> occurred, charging cannot finish.

[1] A charging defect occurs when the communication failure status continues for approximately 30 minutes.

[2] The preliminary charging status occurs when charging starts after a battery is fully discharged or when charging starts with a rechargeable battery at a low temperature. The charging station will return to the normal charging status after a few minutes.

[3] Dirt easily adheres to the charging terminals of the transmitter and charging station. Charging may not be possible, charging may finish before completion, and the battery level may not be displayed properly in Wireless Manager if these products are used with dirty terminals. If these terminals are dirty, wipe away this dirt with a cotton swab or something similar. Be careful not to apply too much force when doing so.

# **Replacing rechargeable batteries**

You can purchase transmitter rechargeable batteries as service parts. Replace the rechargeable batteries according to the following procedures.

• Replace rechargeable batteries specified by Audio-Technica.

Transmitter	Rechargeable battery
ESW-T4101/ESW-T4106/ESW-T4107	Lithium-ion battery LI-220
ESW-T4102/C510	Lithium-ion battery LI-320

### ESW-T4101

1

Remove the screw on the side of the device, and then remove the battery cover.



**2** Remove the screws, and then remove the battery holder.



**3** Remove and replace the rechargeable battery.

#### **Replacing rechargeable batteries**



• Check that the transmitter is off before replacing the rechargeable battery.

## ESW-T4102/C510

(!)

**1** Turn the grip and remove it.



**2** Remove and replace the rechargeable battery.



• Check that the transmitter is off before replacing the rechargeable battery.

## ESW-T4106/ESW-T4107

Remove the screws on the bottom of the device, and then remove the battery cover.



**2** Remove and replace the rechargeable battery.



(!)

• Check that the transmitter is off before replacing the rechargeable battery.
## Troubleshooting

Use Wireless Manager to check the status of devices such as their link configuration, muting, and volume.

### **Receivers and transmitters**

#### P The receiver power can't be turned on (in the case of ESW-R4180LK)

- Make sure that the network A port on the rear of the receiver is connected to the mixer or extender via a LAN cable (Cat. 5e or higher, shielded cable with conductor size of 24AWG or greater in diameter).
- Make sure that the mixer or extender is operating properly.

#### (?) The receiver power can't be turned on (in the case of ESW-R4180DAN)

- Make sure that the network A port on the rear of the receiver is connected to a PoE-compatible switching hub via a LAN cable (Cat. 5e or higher, shielded cable with conductor size of 24AWG or greater in diameter).
- Make sure that the PoE-compatible switching hub is operating properly.

#### (?) The transmitter power can't be turned on

- Make sure that the rechargeable battery is in place.
- Check the battery level of the rechargeable battery.

#### (?) The receiver can't be identified by Dante Controller (ESW-R4180DAN only)

- Make sure that "Device Setting" -> "Dante" -> "Dante IP Setting" -> "IP Mode" is set correctly in Wireless Manager.
- Make sure that the Dante audio device connected to the network A port on the rear of the receiver and the Dante device to connect to are both connected to the same network.

#### (?) The receiver and transmitter can't be linked

- Make sure that the transmitter is registered to the same system as the receiver on the "Link Configuration" screen in Wireless Manager. If these devices still cannot be linked even when registered to the same system, clicking "Refresh Link Setting" may solve the problem.
- Make sure that the number of transmitters used is less than the number of usable transmitters indicated with "Tools" -> "DECT RF Scan" in Wireless Manager.

?

# Even though a link has been configured, the receiver and transmitter cannot be connected or their connection is repeatedly terminated

The receiver and transmitter encryption keys may be mismatched due to an irregularly performed link configuration. Place all the transmitters registered to the receiver in a charging station, synchronize the receiver and all the transmitters to Wireless Manager, and then click "Refresh Link Setting" in the link configuration. The devices will be registered again. Encryption key mismatches may occur when:
(1) The link configuration is edited for a transmitter with an existing link without placing the transmitter in an online charging station.

(2) The same receiver and transmitter are registered again to a new link configuration.

#### (?) There is no audio/the audio level is low

- Make sure that the transmitter is on.
- Make sure that the transmitter is not muted.
- Make sure that the transmitter and microphone are connected properly.
- Make sure that the receiver is not muted.
- Make sure that the registered channel of the receiver and transmitter is the same.
- Make sure that the transmitter's gain isn't too low.
- Make sure that the receiver's volume isn't too low.
- If using the mix out, make sure that the mix assignments have been set properly.
- Make sure that the network A port on the rear of the receiver is connected to the mixer or extender via a LAN cable (Cat. 5e or higher, shielded cable with conductor size of 24AWG or greater in diameter) (in the case of ESW-R4180LK).
- Make sure that the network A port on the rear of the receiver is connected to a PoE-compatible switching hub via a LAN cable (Cat. 5e or higher, shielded cable with conductor size of 24AWG or greater in diameter) (in the case of ESW-R4180DAN).
- Use Dante Controller to make sure the receiver output (Dante transmitter) is routed properly to the Dante receiver device that is the output destination (ESW-R4180DAN only).

#### Sound is distorted

- Make sure that the transmitter's gain isn't too high.
- Make sure that the receiver's volume isn't too high.
- Make sure that the volume of any external device isn't too high.

#### Sound is interrupted

• Make sure that the transmitter and microphone are connected properly.

- Make sure that the RF power isn't too low.
- Make sure that the number of transmitters used is less than the number of usable transmitters indicated with "Tools" -> "DECT RF Scan" in Wireless Manager.

#### (?) There is unwanted noise

- Make sure that the transmitter and microphone are connected properly.
- Make sure that the RF power isn't too low.
- Make sure that the connected external microphone isn't too close to the transmitter antenna.

(?) Receiver indicator lamps do not light

• Make sure that "Device Setting" -> "System" -> "LED" is not set to OFF in Wireless Manager.

(?) The transmitter indicator lamp does not light

 Make sure that "Device Setting" -> "Mute" -> "Mute LED Color"/"Unmute LED Color" is not set to OFF in Wireless Manager (ESW-T4106/ESW-T4107 only).

#### ? The status indicator lamp flashes

• Error displays and other such statuses are indicated with the colors of the indicator lamps and the way it flashes. Refer to "Indicator lamp displays" (p. 139) for details.

#### **Charging stations**

#### ?) The power can't be turned on

• Make sure that the AC adapter is connected properly.

#### (?) The device does not charge

- Make sure that the charging terminals are not dirty and clean them if they are.
- Make sure that the transmitter has been inserted properly into the charging station and reinsert it if it has not.



#### A connection to the network can't be established

• When linking charging stations, make sure that the LAN cable is connected to the network port of the charging station to which the AC adapter is connected.

#### Links can't be configured with the LINK button (?)

- Make sure that the LINK button is not locked.
- Make sure that the LAN cable is connected securely.
- Make sure that the charging station is on the same network as the receiver.
- Make sure that the charging station is registered to the same system as the receiver on the "Link Configuration" screen in Wireless Manager.
- Link configuration with the LINK button uses IP multicast. Make sure that the receiver and the charging station are using the same multicast IP address.

		-
<b>?</b> )	Ind	ICa.

#### tor lamps don't light

Make sure that "Device Setting" -> "System" -> "LED" is not set to OFF in Wireless Manager.

#### (?) Status indicator lamps flash

 Error displays and other such statuses are indicated with the colors of the indicator lamps and the way they flash. Refer to "Indicator lamp displays" (p. 139) for details.

#### **Wireless Manager**

#### **Devices aren't detected from Wireless Manager** (?)

- Make sure that the LAN cable is connected securely.
- Make sure that the mixer or extender is operating properly (in the case of ESW-R4180LK).
- Make sure that the PoE-compatible switching hub is operating properly (in the case of ESW-R4180DAN).
- Check the firewall settings of the PC.
- Make sure that the network settings of the PC are appropriate.
- In the event of changes to the network settings or IP addresses, completely restart each device. Normally, a message indicating that the device will restart appears after settings are changed.
- Restart Wireless Manager.
- If the transmitter isn't detected, make sure that the transmitter has been inserted properly into the charging station and reinsert it if it has not.
- On Windows, restart the Ethernet adapter after changing network settings. If the IP address still is not updated, restarting Windows may solve the problem.

• On Windows, use the Command Prompt window (or something similar) to execute the ping command to the IP address of the device, checking that communication is possible. If a device isn't detected even though communication is possible, there may be a problem in the firewall settings or the settings related to the multicast address.

#### (?) Device status isn't applied to Wireless Manager

- Wireless Manager uses IP multicast. Make sure that communication using the multicast IP address/port set on the device is not prohibited in your network environment. When using an IGMP-compatible switch, exercise caution regarding items such as the IGMP settings.
- When using Web Remote Manager (version 1.2.4 or earlier) or Locate applications made by Audio-Technica-on the same PC as Wireless Manager, change the multicast address port of this system from the default value of "17000" (p. 99). Web Remote Manager and Locate both use port "17000". Ports "17001", "17100", "17200", and "17300" cannot be used because they are used in Wireless Manager TCP/UDP communication.
- Make sure that another device or application on the same network is not using the same port number as this device

#### The error message "One or more devices are unable to sync with Wireless (?) Manager." appears when an attempt is made to apply settings to the device

- Make sure that all the devices are connected to the network.
- Make sure that the device is not controlled by another PC.

#### The device will not be redetected if it is restarted after changing the IP (?)address while online (Mac only)

- After saving the project, restart Wireless Manager.
- Turn off the device and wait 1 to 2 minutes before turning it on again.

## Dimensions

## ESW-R4180LK



## ESW-R4180DAN



#### Dimensions

## Bracket











(Unit: mm)

## ESW-T4102/C510



















## **ESW-CHG4**







4







## ESW-CHG5









(Unit: mm)

## LI-220



#### Dimensions

## LI-320



## **Overall system specifications**

Operating frequencies <sup>[1]</sup>	DECT Mode 00 (Europe, Asia): 1,880 to 1,900 MHz DECT Mode 01 (America): 1,920 to 1,930 MHz DECT Mode 03 (Taiwan): 1,880 to 1,895 MHz DECT Mode 21 (Japan): 1,894 to 1,906 MHz DECT Mode 24 (Australia): 1,880 to 1,900 MHz
Dynamic range	> 105 dB (A-weighted), typical
Total harmonic distortion	< 1.0%
Operating range <sup>[2]</sup>	Max. 100 m (328.1'; with RF Power set to Mid)
System frequency response <sup>[3]</sup>	Standard: 20 to 20,000 Hz HD mode: 20 to 20,000 Hz
Receiving system	True diversity
Delay (ESW-R4180LK)	Standard: 16.3 ms typ. HD mode: 23.6 ms typ.
Delay (ESW-R4180DAN)	Standard: 16.7 ms typ. HD mode: 24.0 ms typ.
Audio sampling rate	Standard: 24 bits, 48 kHz HD mode: 24 bits, 48 kHz
Encryption system	AES256
RF output power <sup>[4]</sup>	Max: 250 mW, High: 100 mW, Mid: 30 mW, Low: 10 mW, Min: 2 mW (switchable)
Maximum simultaneous use <sup>[5]</sup>	Standard: 96 channels HD mode: 192 channels

[1] This product is set to the DECT Mode matching the laws and regulations of the country where it will be used.

[2] Open range environment with no interfering signals.

[3] Depending on microphone element to attach.

[4] Exercise caution regarding the transmitting power to meet local regulations.

[5] In DECT Mode 00/24.

[6] The number of usable channels varies depending on the country in which this product is used as well as on its environment and actual operation status.

## ESW-R4180LK

Modulation mode	A-field: π/2-BPSK B-field: π/8-8PSK
RF sensitivity	< -90 dBm
Network	Audio-Technica LINK: 100 Mbps
I/O connector	Audio-Technica LINK: RJ-45
Power consumption	2.4 W
Power supply	+48 V DC (Audio-Technica LINK)
Operating temperature range	-10°C to +50°C (14°F to 122°F)
Dimensions	228.6 mm (9.0") × 228.6 mm (9.0") × 43.5 mm (1.7") (W × D × H)
Weight (without included accessories)	620 g (22 oz)
Included accessory	Bracket, set of bracket screws

## ESW-R4180DAN

Modulation mode	A-field: π/2-BPSK B-field: π/8-8PSK
RF sensitivity	< -90 dBm
Network	Dante: 1 Gbps IP control: 100 Mbps
I/O connector	Network/Dante: RJ-45
Power consumption	5.5 W
Power supply	PoE (IEEE 802.3af Class 0)
Operating temperature range	-10°C to +50°C (14°F to 122°F)
Dimensions	228.6 mm (9.0") × 228.6 mm (9.0") × 43.5 mm (1.7") (W × D × H)
Weight (without included accessories)	620 g (22 oz)
Included accessory	Bracket, set of bracket screws

Frequency response (internal microphone)	20 to 20,000 Hz
Modulation mode	A-field: π/2-BPSK B-field: π/4-QPSK
Input connection	Four pin locking connector Pin 1: GND Pin 2: MIC DETECTION Pin 3: MIC INPUT Pin 4: DC BIAS +5 V
Battery	Lithium-ion battery LI-220 (included)
Operating temperature range	-5°C to +45°C (23°F to 113°F)
Battery life	25 hours <sup>[1]</sup>
Dimensions	56 mm (2.2") × 23.5 mm (0.93") × 90 mm (3.5") (W × D × H)
Weight (with battery)	112.3 g (4.0 oz)
Included accessory	Neck strap

[1] This varies depending on usage conditions.

## ESW-T4102

Modulation mode	A-field: π/2-BPSK B-field: π/4-QPSK
Microphone capsule	Interchangeable microphone capsule-compatible
Battery	Lithium-ion battery LI-320 (included)
Operating temperature range	-5°C to +45°C (23°F to 113°F)
Battery life	35 hours <sup>[1]</sup>
Dimensions	ESW-T4102 (without capsule): 188.5 mm (7.4″) × 37 mm (1.5″) in diameter ESW-T4102/C510: 259.5 mm (10″) × 53.7 mm (2.1″) in diameter
Weight (with battery)	ESW-T4102 (without capsule): 205 g (7.2 oz) ESW-T4102/C510: 334 g (12 oz)
Included accessory	AT8456a Quiet-Flex <sup>™</sup> stand clamp, 5/8"-27 male to 3/8"-16 female threaded screw adapter

[1] This varies depending on usage conditions.

Frequency response	Omnidirectional: 20 to 18,000 Hz Cardioid: 20 to 18,000 Hz
Modulation mode	A-field: π/2-BPSK B-field: π/4-QPSK
Microphone polar pattern	Cardioid, Omnidirectional (selectable)
Battery	Lithium-ion battery LI-220 (included)
Charging time (USB)	Approx. 2 hours 40 minutes <sup>[1]</sup>
Operating temperature range	-5°C to +45°C (23°F to 113°F)
Battery life	22 hours <sup>[1]</sup>
USB charging connector	USB Type-C (USB 3.0)
Dimensions	90.5 mm (3.6") × 129.4 mm (5.1") × 31.9 mm (1.3") (W × D × H)
Weight (with battery)	500 g (18 oz)

[1] This varies depending on usage conditions.

## ESW-T4107

Modulation mode	A-field: π/2-BPSK B-field: π/4-QPSK
Microphone	ES Series modular gooseneck microphone-compatible
Battery	Lithium-ion battery LI-220 (included)
Charging time (USB)	Approx. 2 hours 40 minutes <sup>[1]</sup>
Operating temperature range	-5°C to +45°C (23°F to 113°F)
Battery life	17 hours <sup>[1]</sup>
USB charging connector	USB Type-C (USB 3.0)
Dimensions	90.5 mm (3.6") × 129.4 mm (5.1") × 47.4 mm (1.9") (W × D × H)
Weight (with battery)	535 g (19 oz)

[1] This varies depending on usage conditions.

## **ESW-CHG4**

Power supply	12 V DC, 3.0 A
Charging output	When charging one to four transmitters: 4.2 V DC, 1.5 A When charging five or six transmitters: 4.2 V DC, 1.1 A When charging seven or eight transmitters: 4.2 V DC, 0.7 A
Power consumption	When charging two transmitters: 15.6 W When charging eight transmitters in four linked charging stations: 30.6 W
Charging time (ESW-T4101) <sup>[1]</sup>	<ul> <li>When charging one to four transmitters:</li> <li>Approx. 50 minutes (50% charged), approx. 2 hours (100% charged)</li> <li>When charging five or six transmitters:</li> <li>Approx. 1 hour 10 minutes (50% charged), approx. 2 hours 50 minutes (100% charged)</li> <li>When charging seven or eight transmitters:</li> <li>Approx. 1 hour 40 minutes (50% charged), approx. 3 hours 40 minutes (100% charged)</li> </ul>
Charging time (ESW-T4102) <sup>[1]</sup>	<ul> <li>When charging one to four transmitters:</li> <li>Approx. 1 hour 20 minutes (50% charged), approx. 3 hours (100% charged)</li> <li>When charging five or six transmitters:</li> <li>Approx. 1 hour 40 minutes (50% charged), approx. 4 hours 10 minutes (100% charged)</li> <li>When charging seven or eight transmitters:</li> <li>Approx. 2 hour 20 minutes (50% charged), approx. 5 hours 20 minutes (100% charged)</li> </ul>
Network	IP control: 100 Mbps
Operating temperature range	0°C to 40°C (32°F to 104°F)
Dimensions	95 mm (3.7") × 180 mm (7.1") × 78.5 mm (3.1") (W × D × H)
Weight	532 g (19 oz)
Included accessories	Link cable, Link plate, Link plate screws, Mic holder
Sold separately	AC adapter (AD-SA1230XA), AC cord

[1] This varies depending on usage conditions.

## **ESW-CHG5**

Power supply	12 V DC, 3.0 A
Charging output	When charging one to four transmitters: 4.2 V DC, 1.5 A When charging five or six transmitters: 4.2 V DC, 1.1 A When charging seven or eight transmitters: 4.2 V DC, 0.7 A
Power consumption	When charging four transmitters: 30.6 W
Charging time (ESW-T4106/ESW-T4107) <sup>[1]</sup>	<ul> <li>When charging one to four transmitters:</li> <li>Approx. 50 minutes (50% charged), approx. 2 hours (100% charged)</li> <li>When charging five or six transmitters:</li> <li>Approx. 1 hour 10 minutes (50% charged), approx. 2 hours 50 minutes (100% charged)</li> <li>When charging seven or eight transmitters:</li> <li>Approx. 1 hour 40 minutes (50% charged), approx. 3 hours 40 minutes (100% charged)</li> </ul>
Network	IP control: 100 Mbps
Operating temperature range	0°C to 40°C (32°F to 104°F)
Dimensions	209.9 mm (8.3") × 303.9 mm (12") × 65.4 mm (2.6") (W × D × H)
Weight	866 g (31 oz)
Included accessories	Link cable, Link plate, Link plate screws
Sold separately	AC adapter (AD-SA1230XA), AC cord

[1] This varies depending on usage conditions.

## LI-220

Туре	Lithium ion
Output voltage	3.6 V DC
Capacitance	2,200 mAh
Dimensions	39.7 mm (1.6") × 56.7 mm (2.2") × 13.5 mm (0.53") (W × D × H)
Weight	49 g (1.7 oz)

## LI-320

Туре	Lithium ion
Output voltage	3.6 V DC
Capacitance	3,200 mAh
Dimensions	21.4 mm (0.84") × 74.8 mm (2.9") × 20.9 mm (0.82") (W × D × H)
Weight	56 g (2.0 oz)

• For product improvement, the product is subject to modification without notice.

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## ESW-R4180LK



## ESW-R4180DAN



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