



Direct X

Wireless Transmitter

User manual

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1 Introduction

Thank you for purchasing the device.

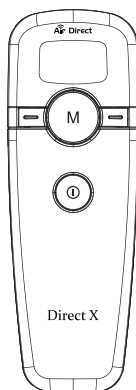
The instructions described below have been designed to provide the necessary information for the successful operation, daily maintenance and safety for the use of this device.

1-1. Features

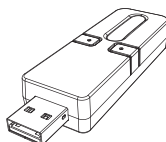
- High Speed Digital Wireless
- Built-in gyro mouse
- No separate driver installation
- Allows you to select the receiver you want to use on your device

1-2. Overview

1-2-1. Body



1-2-2. Receiver



2 Safety Information

It is important to understand the following information to use this product safely.

2-1. Warning and Caution

Warning and caution used in this manual are shown below.



Indicates a potentially hazardous situation which, if not avoided, may result in serious injury or death.



Indicates a potentially hazardous situation which, if not avoided, may result in minor/moderate injury or in damage of property.

2-2. Notes and reference

Note and references used in this manual are shown below.



Indicates that potential malfunctions may occur if the description is ignored



Supplementary information to facilitate better operation.

2 Safety Information

2–3. Installation



Warning

- The adapter should be disconnected from the charger before connecting the power cable to prevent an electric shock.
- Keep away from sources of ignition to avoid fire or explosion.
- Protect the device from any liquid to avoid electric shock or functional error.
- Do not drop device and charger to avoid internal defect that may cause overheating or fire.
- Do not place the electrical cord near a gas burner or sources of heat.
Should the cord catch on fire, replace with the new one to avoid short-circuit.



Caution

- Do not use or leave the unit in areas of high temperature or exposed to direct sunlight, internal circuit defect may cause overheat or fire.
- Securely connect the dust-free power plug to the outlet.
- Use this device in well ventilated areas. Overheating may cause fire.
- Do not touch the terminal areas of charger or battery with fingers or conductive objects, such as metal wire or safety-pin. It may electric shock or fire.
- Do not place barrier between device and receiver. It would make hesitation wireless data translation.

2 Safety Information

2-4. Operation



Warning

- Do not plug the power cord with wet hands. This may result in an electric shock.
- In case of fluid leak from battery or partial discoloration/deformation of the device, immediately discontinue use.
- In case of partial discoloration of the device, immediately disconnect the power plug and repair it.
- In case battery fluid contacts the eye, immediately flush with copious amount of clean water and seek medical attention.
- Do not use this product on a person with a pacemaker as it may cause malfunction of the pacemaker.



Caution

- Avoid damage or use of unnecessary force on the power cord and device.
This may cause an electric shock, fire, or malfunction.
- Should battery fluid contact the skin or clothes, immediately wash it off with copious amount water to avoid skin damage.
- Do not use this product for any purpose other than dental use.
- This device is not water prove. Use disposable cover when use to avoid wet the device.
In case of malfunction due to this case, it is not covered by warranty.
- For safety, disconnect the adapter from charger in case of device is not charging.
- The product may malfunction or disconnect from the PC due to static electricity.

2 Safety Information

2–5. Maintenance



Warning

- Use only accessories supplied to avoid fluid leak, explosion, or malfunction.
- Do not disassemble or overhaul the device. Unusual performance may cause injuries, electric shock, fire, or malfunction.
- Ensure that charger and camera are always separated from the device prior to cleaning.
- Be careful from any liquid when clearing.

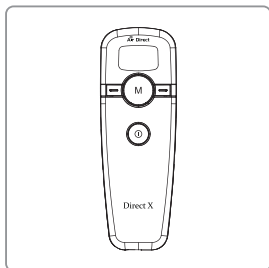


Caution

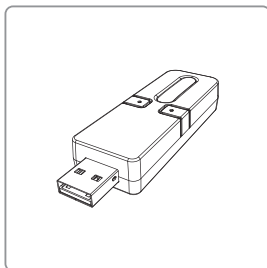
- Do not use solvent (containing orange oil, ethanol or acetone) when clean the device. It may cause malfunction.
- User must be in charge of operation, maintenance and check.

3 List of Component

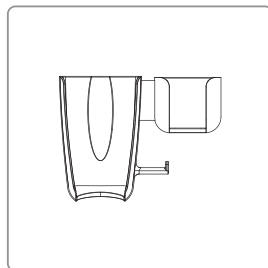
Please check the contents described below when removing the contents from the original packaging.



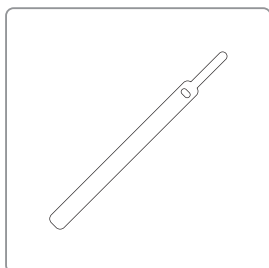
Body
(Part No. DXM1001)



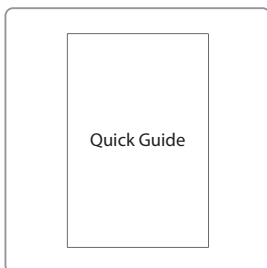
Receiver – Direct X
(Part No. AC0501)



Cradle
(Part No. AC0502)

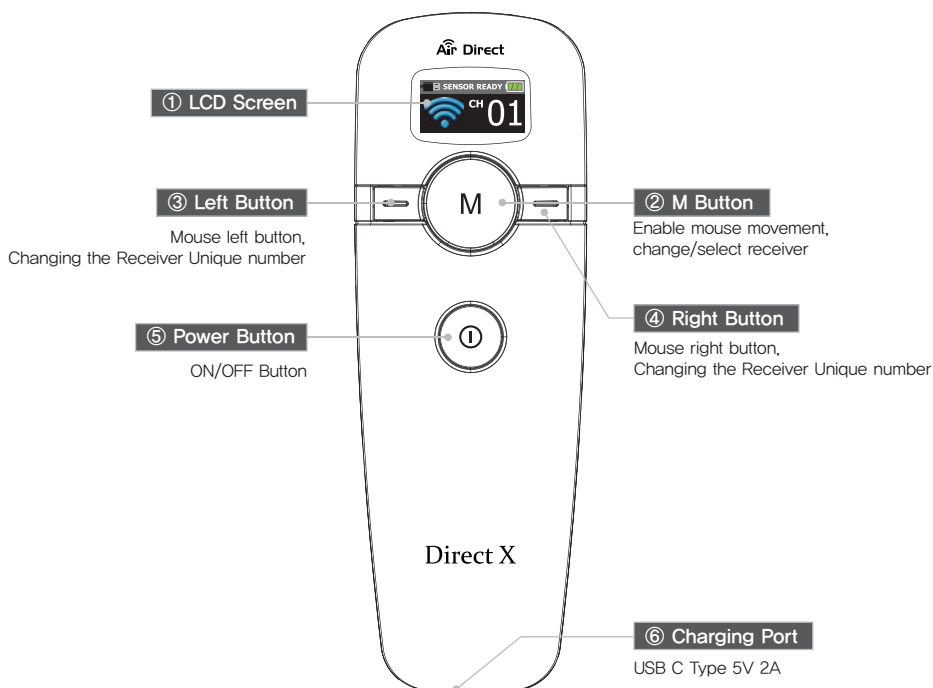


Velcro cable tie x 2ea
(Part No. AC0113)

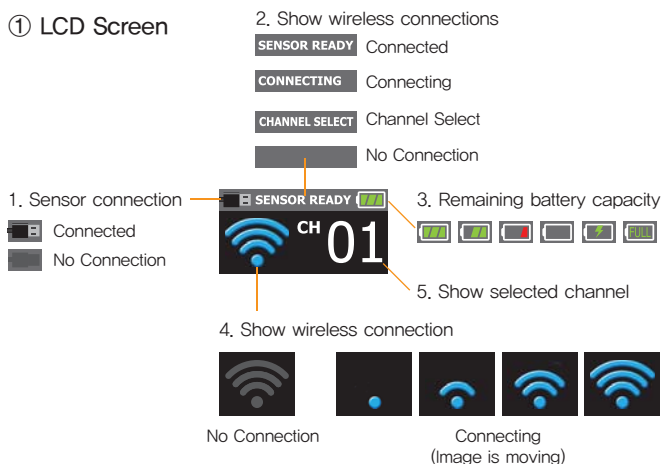


Quick Guide
(Part No. DX080802)

4 Parts and functions



① LCD Screen



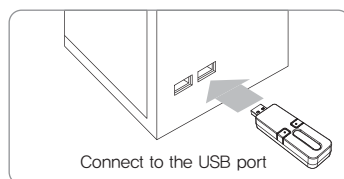
5 How to Install

Before connecting the wired intraoral sensor to DirectX, check the normal operation of the sensor in wired condition and connect it.

Good Doctors does not provide supporting for the installation of wired intraoral sensors.

5-1. Receiver installation

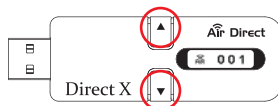
5-1-1. Connect the receiver to the USB port on your PC



5-1-2. After approximately 5 seconds, the receiver will display a logo and the receiver's default number "001"



5-1-3. To change to a number that does not overlap with other receivers, press the ▲ and ▼ buttons on the receiver to change the number.
(Press and hold the ▲ and ▼ buttons to change quickly.)

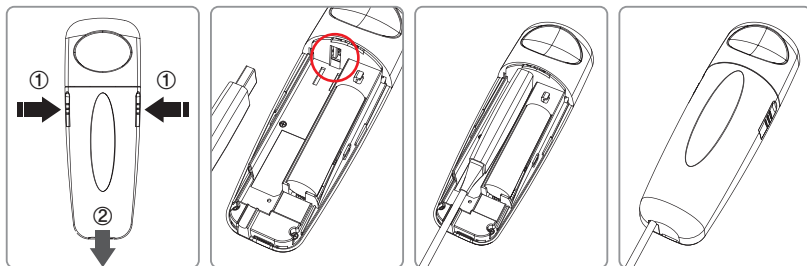


It is recommended to use a unique number between 01 and 10.
Please refer to 5-4-3 when changing the unique number to 11 or higher

5 How to Install

5-2. X-ray sensor connection

5-2-1. Connect the X-ray sensor to the USB with the power off.



5-2-2. Press and hold the power button to turn on the power.

5-2-3. Check the icon on the screen to see if the X-ray sensor USB is connected well to the main body



Connected



No Connection



Reference

Connect and disconnect the X-ray sensor with the main body powered off.
The sensor is not recognized when the X-ray sensor is detached while in use.
In the above case, in the event of a recognition error, power off and on the main body.

5-3. Connect Receiver

5-3-1. When you use it for the first time, it automatically connects to channel 1.

The connection settings of the receiver are required to connect to other receivers.

5-3-2. Double-click the M button to select the receiver to connect to.

5-3-3. Use the left and right buttons to change the unique channel number of the receiver to which you want to connect, and press the M button to select it.
Press and hold the button for more than 2 seconds to change the number quickly.

5-3-4. While trying to connect, the unique channel number and animation to connect to will be displayed, and when connected, it will be displayed as a beep sound and a still image after the animation ends, and will become "SENSOR READY".



Receiver Selection Screen



Receiver Connection Screen



Receiver Connected Screen



5 How to Install

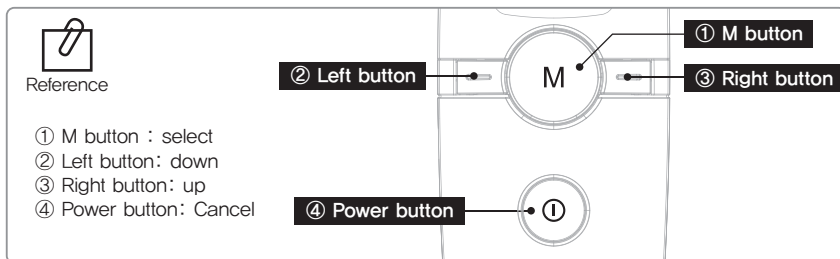
5-3-5. When power is off and on, it attempts to automatically connect to an existing unique channel.



Press the M button to activate the mouse function and display all the set unique channel numbers.

5-4. Device Installation

Press the left and right buttons at the same time for 3 seconds to change to setup mode.



5-4-1. MOUSE SPEED

5-4-1-1. Choose the appropriate mouse speed (5 levels) that fits you.

5-4-1-2. Initial value is level 3.

5-4-2. TURN OFF TIME

5-4-2-1. Select a time when the unit is turned off. (5, 10, 15, 20, 25, 30 minutes)

5-4-2-2. Initial value is 5 minutes.

6 How to use

6-1. X-ray sensor connection

6-1-1. Connect the X-ray sensor to the USB with the power off.



Reference

Connect and disconnect the X-ray sensor with the main body powered off. The sensor is not recognized when the X-ray sensor is detached while in use. In the above case, in the event of a recognition error, power off and on the main body.

6-2. Turn on the device

6-2-1. Press and hold the power button to turn on the power.

6-3. Mouse

6-3-1. To move the mouse cursor, press the M button and move the three devices

6-3-2. The mouse cursor moves the instrument as it moves.

6-3-3. Mouse function and unique channel number display action are not performed during capturing.

6-4. Turn off the device

6-4-1. Press the power button for 3 seconds to switch off.

6-4-2. If not operating, the unit will automatically turn off at the set time.

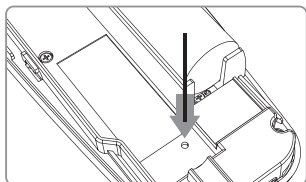
6-5. Setup Mode

6-5-1. Click the left and right buttons at the same time for 3 seconds to display the setup mode.

6-5-2. Refer to "Devices Setting 5-4" for setup mode.

6-6. Reset

6-6-1. If the instrument is not functioning properly, press the reset switch



The reset switch is located inside the product.

7-1. Cleaning and disinfection

- Clean the camera and charger gently with clean, soft, lint-free cloth.
- Avoid using solvents which contain ethanol or acetone.
- Do not use sharp or pointed tools to clean as they may damage or scratch the plastic.
- Be careful not to spill any liquid into the device.

7-2. Maintenance and replacement of the battery.

- Do not disassemble the device for any purpose.
- To replace the battery, please contact authorized dealer or manufacturer.
- It is recommended for rechargeable battery to be charged immediately before use to maximize efficiency.

8 Trouble shooting

If the device not works normally, please refer to the following points.

Problem	Cause and solution
Button doesn't work	<p>If the button is pressed with excessive force, it will not work, try pressing the button gently. And check the button condition.</p> <p>If the device is not recognized well, the button could not work well. Refer "5. Installation", "6. How to use"</p> <p>If connection between camera and receiver is not connected, the button doesn't work. Please avoid any barrier between camera and receiver.</p>
Display screen does not work	<p>If the battery voltage is extremely low, the device is not turned on. Please charge the battery.</p>
Power off while in operation	<p>If the battery voltage is extremely low, the device could be turned off. Please charge the battery.</p>

* If the trouble is not fixed after following solution, please contact your local dealer or manufacturer.

9 Specification

- Name of the Model: Wireless Transmitter
- Model: AD-DX
- Trademark: Direct X
- Manufacturer: Good Doctors co., Ltd.
- Address: #208, B-dong, 283 Bupyeong-daero, Bupyeong-gu (Woolim Lions Valley, Cheongchoen-dong), Incheon, 21315, Republic of Korea
- Tel: 032) 424-6325
- Manufacturing year and date of manufacture: marked on product
- Quantity: 1 set
- Instructions for use and cautions for use: See User's Manual

9-1. Terms of use, delivery, and storage

	Operation	Storage	Transport
Temperature (°C)	10 ~ 30	10 ~ 40	-10 ~ 50
Humidity (%)	10 ~ 80	20 ~ 80	20 ~ 80
Atmospheric pressure (hPa)	800 ~ 1360		

9-2. Additional Information











Product	Operating voltage	3.7V
	Charging voltage	5V 2A
	size	Approx. 48 x 140 x 35.5mm
	Weight	Approx. 88.5g
Battery	Type	lithium-ion battery
	Voltage	DC 3.7V
	size	Approx. 52.7 x 14.5 x 14.5mm
	Weight	Approx. 20.8g

9-3. Minimum Requirement

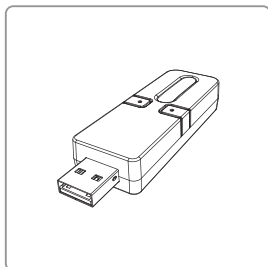
It depends on the X-ray sensor that you want to use.

9 Specification

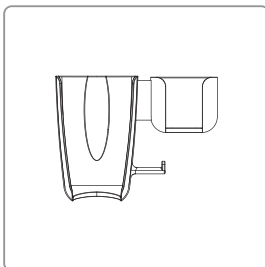
9-4. Symbol

	Warning, Caution	
SN	Serial number 00 00 00 0000 Model / Month / Year / Serial	
	This symbol is applied to fulfill the requirements of EU Directive 2012/19/EU Article 11. This equipment cannot be disposed of as unsorted municipal waste within the European Union. Follow local regulations for disposal.	
	Manufacturer	 Check user manual.
	Prevent by wet.	 PAPER This box is paper recyclable.
	Do not device on place where get direct sunshine.	 Fragile item
	Transport temperature.	 No hooks

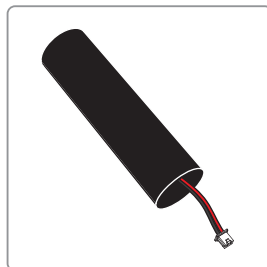
10 Accessories



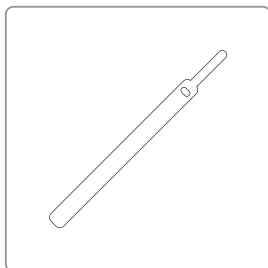
Receiver – Direct X
(Part No. AC0501)



Cradle
(Part No. AC0502)



Battery Cell
(Part No. DCAM030501)



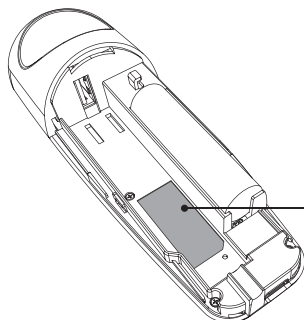
Velcro cable tie
(Part No. AC0113)

11 Warranty

This product will be shipped after a strict inspection.

Problems arising under normal use environments can be guaranteed free of charge for one year from the date of purchase. However, consumables are not included in the warranty. For more information, please refer to the warranty attached to this manual.

11-1. Serial number check.



S/N : 0923001
MM YY Serial

- a. Rule Part 15.19(a)(3): 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.
- b. Rule Part 15.21: The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital

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:

- 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



We guarantee the quality of the product as follows

Name of product :

Name of model :

Customer information

- Office name :
- Office phone :

Distributor

- Dealer name :

Assurance period

- Date of purchase : from , 20
- Product is for 1 year except accessories.

< Assurance details >

1. If there is any defect of manufacturer or product has any fault itself within the assurance period, it will be replaced with the same product.
2. Below cases are not effective for the free refund.
 - Malfunction and damage according to user's carelessness.
 - Malfunction and damage according to natural disaster such as fire, earthquake and flood etc.
 - Malfunction and damage according to user's intention or accident.
 - Malfunction and damage according to using incompatible product.
3. The manufacturer does not accept any liability resulting misuse.



Good Doctors Co., Ltd.

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