



Whicam[®] Story3 CS

Wireless Autofocus Intraoral Camera with Mouse

Wireless type

User manual

Eng

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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 unit.

Features

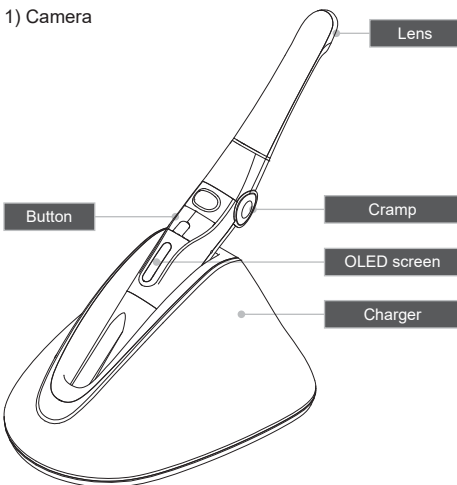
- High speed digital wireless
- Autofocus
- Gyro mouse built-in
- Adjustable head angle
- 280° twist head
- Adjustable LED brightness
- Big capacity battery
- Software compatibility
- Easy to read OLED screen
- Dental image software included (DrsViewer2)
- 3 color impressions

Description

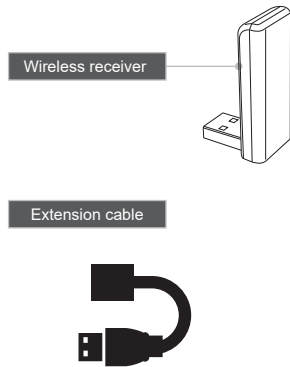
This device is an intraoral camera used to take images of the inside of the mouth or oral cavity.

Overview

1) Camera



2) Receiver part



2 Safety information

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

Symbols



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.

Notes and References

Notes 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

Installation and Connection



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.
- Place the charger on a flat and stable surface. 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 of battery with fingers or conductive objects, such as metal wire or safety-pin. It may electric shock or fire.
- Do not use any charger other then supplied. It may cause fire due to overheating.
- Do not place barrier between camera and receiver. It would make hesitation wireless data translation.

2 Safety information

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.
- Should use disposable cover to avoid cross-infection.



Caution

- Disconnect the power cord by grasping the power plug to avoid injuries or burns.
- 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

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.

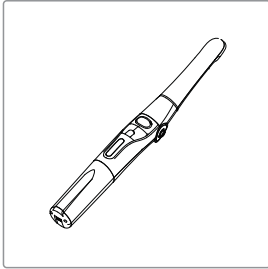


Caution

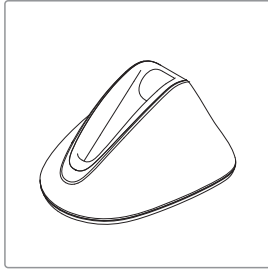
- Do not use solvent (containing orange oil, ethanol or acetone) when clean the device. It may cause malfunction.
- User must be in charge of operation, maintenance and check.

3 List of components

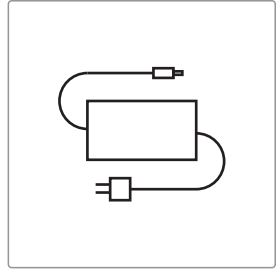
Please check the contents described below when removing the contents from the original packaging.



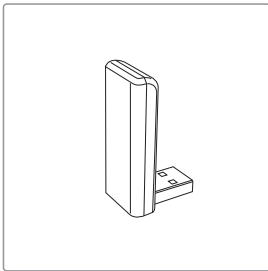
Camera
(Item no. WHT060M10012)



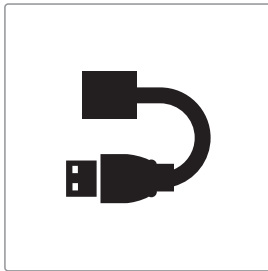
Charger
(Item no. WHT060M30001)



Adapter
(Item no. IC06006010)



Receiver
(Item no. IC06003010)



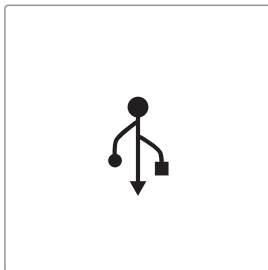
Extension cable
(Item no. IC06003020)



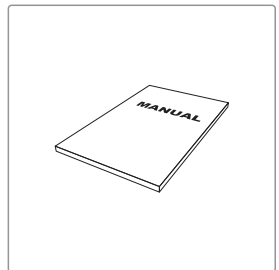
Disposable cover
(35x100mm / smaller)
(x 100 pcs by weight)
(Item no. IC06002010)



Disposable cover
(60 x 205mm / wider)
(x 100 pcs by weight)
(Item no. IC06002040)

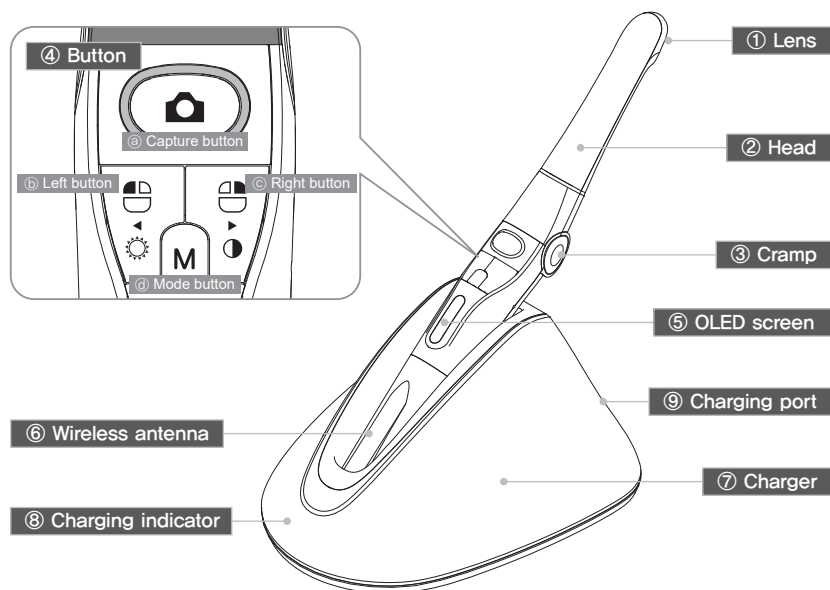


USB memory
(Item no. IC06009010)



User Manual
(Item no. IC0906010)

4 Parts and functions



① Lens

- Image is reflected on the lens through prism.

② Head

- Twistable 280° degrees

③ Cramp

- Change head angle (3 steps)

④ Button

- ① Capture button
 - Image capture, focus adjusting, select
- ② Left button
 - Mouse left button
- ③ Right button
 - Mouse right button
- ④ Mode button
 - Mouse moving activate, setup mode, cancel

⑤ OLED screen

- Show the device states

⑥ Wireless antenna

- Data is sent from this antenna to receiver.

⑦ Charger

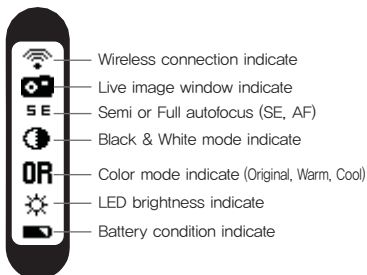
- Charging the device

⑧ Charging indicator

- Red: On charging
- Blue: Full charged

⑨ Charging port

- Connect the AC adapter for charging



5 Installation

1. Receiver installation

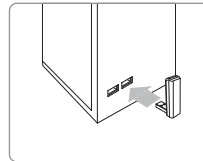
1) Install receiver driver



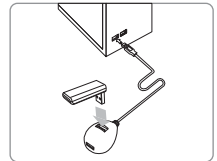
Installation wireless receiver driver screen

2) Connect receiver to PC.

(Can use extension receiver holder)

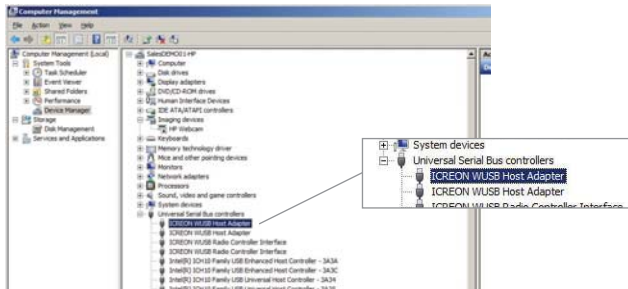


Connect USB port



In case of using extension receiver holder

3) Wait till device is recognized



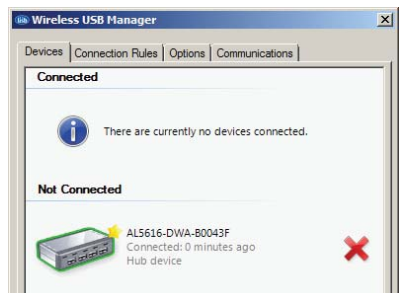
4) Run "Wireless USB Manager" shortcut on the desktop and system tray.



< Short-cut on desk top >



Device is connected well

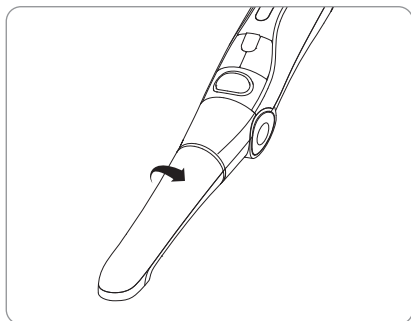


Device is not connected

5 Installation

2. Camera head rotation

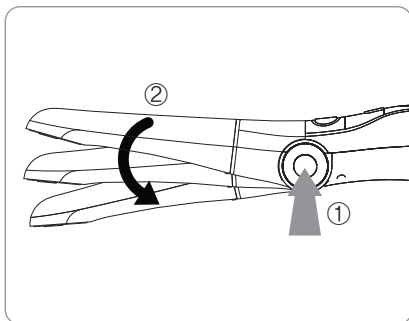
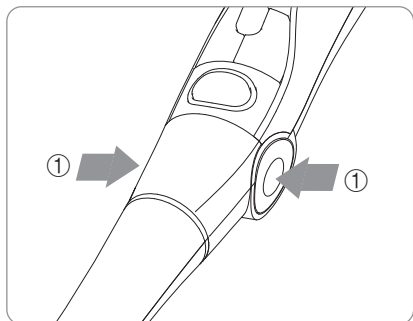
Be careful and do not force much when Head rotation



Spin the camera head for arrow direction.

3. Change the camera head angle

Push the both cramp and change the camera head angle.



Caution

Should use cramp when change the angle. If don't the durability will be weaker.

5 Installation

4. Camera connection

- 1) Turn on the device with click the capture button.
Then the device is recognized on the Wireless USB Manager



Booting



Standby
(live screen off)



Standby
(live screen on)



Not connected device



Note

It would need internet connection as PC environment for setting the camera to computer. The receiver driver is not works with Windows XP 64 bit.

2) Connecting

- Click "Connect" Icon (It need at first time, after using it is done automatically if you use with 1 receiver only)
- If you want to use other receiver, disconnect the device and connect the device on PC which you want to use



Reference



If the device is checked by "Star" mark as below, the device is connected automatically.



Note

If the receiver device driver is not installed well or camera is too far from receiver. Not connected icon is shown on the camera OLED. Please check receiver driver or camera.

5. DrsViewer2 installation

- If you don't have other viewer software, you can use DrsViewer2 in the CD file.



< Installation DrsViewer2 screen >



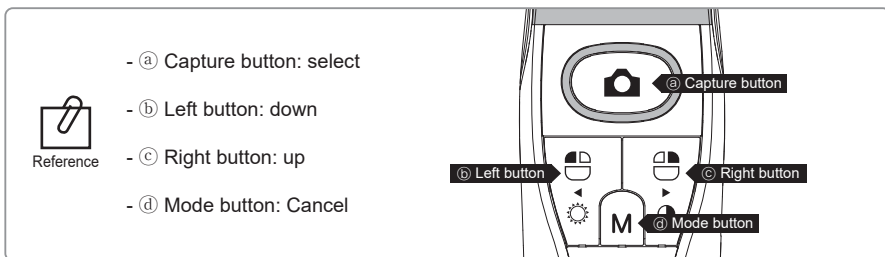
Reference

In case to use other software, contact local dealer.

5 Installation

6. Camera device setup

- Click and hold left button and right button for 3 seconds. Then the device is turned to setup mode.



- (a) Capture button: select
- (b) Left button: down
- (c) Right button: up
- (d) Mode button: Cancel



Reference

1) Capture key setting

- Select appropriate capture key
- Default value is "Space"



Reference

Capture key can be changed with "HIDDrS Manager" in the CD.

2) Mouse speed

- Select appropriate gyro mouse speed. (5 levels)
- Default level is 3

3) Turn off time

- Select turn off time of device (5, 10, 15, 20, 30 mins)
- Default time is 5 mins.

4) Autofocus & Autocapture

- Select "Disable" or "Enable"
- Default value is "Disable"

To avoid shaking image there is Auto capture function.



Reference

* Auto capture:

- Semi autofocus (Disable): Half click and hold the condition, image is captured after 1 seconds after get focus, and image is captured for every 2 seconds.
- Full autofocus (Enable): Half click is image capture and hold the condition, image is captured for every 2 seconds.

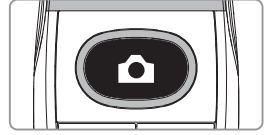
6 How to use

1. Turn on the device

- Click the capture button. Then the device is turn on with LED blink and beep sound.

2. Image capture

- Click camera icon on the DrsViewer2. Then live image is shown.
- Half click is focus adjusting, and click is image capture.
If the mode is full autofocus mode, half click is image capture.

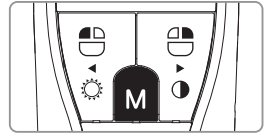


Reference

Default setup is semi autofocus. And capture key is "Space"
To use other company software, need to check capture key.
Or need to use twain driver.

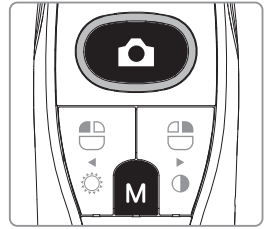
3. Mouse

- To move mouse cursor click mode button and shake the device.
Then mouse cursor is moved as device shaken.



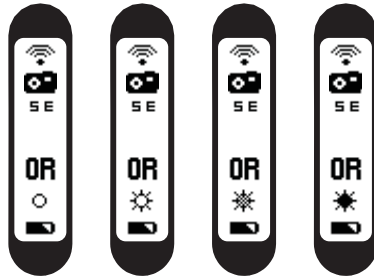
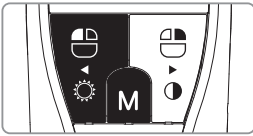
4. Color impression changing

- Click mode button and capture button on live image.
Then the color impression is changed.
- Original ⇒ Warm ⇒ Cool color impression is rotated.



5. Brightness change

- Click mode button with mouse left button. Then LED brightness is changed.



Turn off ⇒ Brightness LV1 ⇒ Brightness LV2 ⇒ Brightness LV3 is rotated.



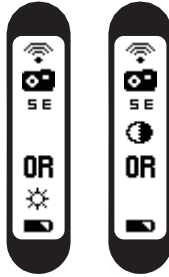
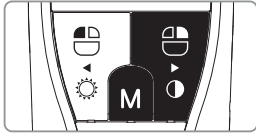
Reference

Brightness change is worked on live image is on.

6 How to use

6. Black & White mode

- Click mode button with mouse right button.
Then LED turn off, and live image changed to black & white mode.



Normal ⇒ Black & White mode is rotated.

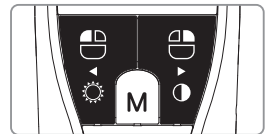


Reference

Black & White mode is worked on live image is on.

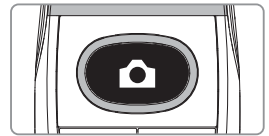
7. Setup mode

- Click mouse left button and mouse right button both for 3 seconds.
Then setup mode is shown.
- About setup mode, please refer,
"5. Installation ⇒ 6. Camera device setup."



8. Turn off

- Click the capture button for 3 seconds, the device is turned off.
- The device is turned off automatically, if there is no signal for minutes set on setup mode.

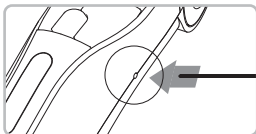


Reference

- User can adjust the sleep mode time for 5, 10, 15, 20, 25, and 30 minutes on setup mode.
- If wireless connection is not connected, device will be turn off after 2 minute.

9. Reset

- If the device doesn't work normally, reset the device. Then the device will be reboot.



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.
- Use disposable cover when use the device to avoid cross-infection and spilling any liquid into the device.

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 Troubleshooting

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>
Not able to capture image	<p>Capture key-value would not match with other company dental viewer software. Please check keyboard short-cut. If you don't know it please ask the dental viewer software vendor.</p> <p>And check the key-value of device. Or use twain driver included.</p>
Live image is not shown	<p>If the device is not recognized well, live image is not shown. Please check camera and receiver connection, and check imaging device of device manager.</p> <p>If there is TV tuner in the PC. The image could be not shown. Check "Disable" the TV tuner device on the device manager.</p> <p>If you use other company dental viewer software, it would be related with its setting. Please ask to the dental viewer software vendor.</p> <p>If you use other company dental viewer software, other imaging device (ex. Web-cam, etc.) should be checked for "Disable".</p> <p>This device support only MJPG (MPEG) format. If you use other company dental viewer software, please check the viewer support MJPG or MPEG. Please ask to the dental viewer software vendor.</p> <p>Some codec makes block or delay the live image shown. Uninstall the codec file. (ex. klite codec and etc.)</p>

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

9 Specification

■ Equipment Class

Model:	IC-WHT60
Trademark:	Whicam Story3
Power supply:	3.7V Lithium Ion
Receiver:	5V USB power
Protection from ingress of liquids:	IPX0 (ordinary equipment)

■ Operation, transport, and storage condition for the main unit

	Operation	Storage	Transport
Temperature	10~40C	0~40C	-10C~50C
Humidity	10~80%	0~80%	0~80%
Atmospheric pressure	800 ~ 1060 hPa		

■ Additional Information

Camera (included head)	Operation voltage	3.7V
	Measurement	Approx. 266 x 31 x 37 mm
	Weight	Approx. 140g
	Resolution	HD(720P)
	Sensor/Lens type	CMOS / Liquid lens
Charger	Operation voltage	5V
	Measurement	Approx. 169 x 148 x 89 mm
	Weight	Approx. 170 g
Disposable cover	Quantity	Approx. 100 pcs by weight x 2ea
	Raw material	Polyethylene
Adapter	Input voltage	AC 100 ~ 240 V
	Output voltage	DC 5V 2A
	UL number	E333054

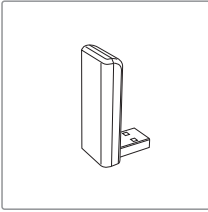
■ Minimum system requirement

PC system:	2.0 Ghz CPU, 1GB RAM
OS:	Windows XP service pack 3 (Windows XP 64 bit is not supported)
USB port:	USB 2.0

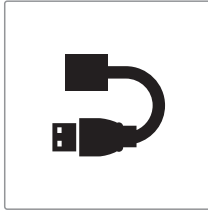
(Internet access would need for some kinds of PC environments)

* Upper specification is changeable without prior notice.

10 Accessories



Receiver
(Item no. IC06003010)



Extension cable
(Item no. IC06003020)



Disposable cover
(35x100mm / smaller)
(x 100 pcs by weight)
(Item no. IC06002010)

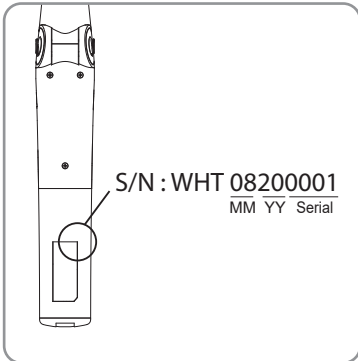


Disposable cover
(60 x 205mm / wider)
(x 100 pcs by weight)
(Item no. IC06002040)

11 Warranty

This product is only shipped after strict inspection. Should the product incur any problems under normal use conditions within one year from the date of purchase, the repair will be free of charge. However, repair of consumables (Disposable Cover, and etc.) are not covered by the warranty. For more information, refer to the 12. Warranty card attached.

Serial number check.



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(Woolim Lions Valley, Cheongchoen-dong), Incheon,
21315, Republic of Korea
Tel : + 82 32 424 6325 Fax : + 82 32 424 6326
E-mail : info@gooddrs.com Website : www.gooddrs.com




Warranty card




We guarantee the quality of the product as follows

Name of product :

< Assurance details >

Name of model :

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.

Customer information

- Office name :
- Office phone :

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.

Distributor

- Dealer name :

Assurance period

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

3. The manufacturer does not accept any liability resulting misuse.



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