

# Dr's Cam V

Autofocus Intraoral Camera with Mouse

Wired type

User manual

Eng

CE

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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

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- Autofocus
- Gyro mouse built-in
- 280° twist head
- Adjustable LED brightness
- Software compatibility
- Easy to read OLED screen

## Description

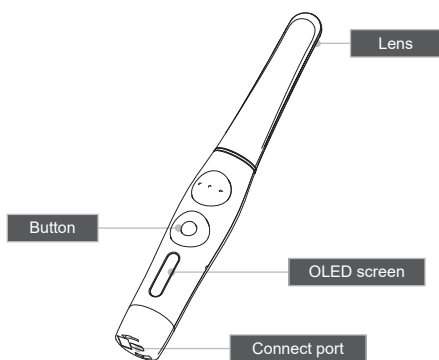
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This device is an intraoral camera used to take images of the inside of the mouth or oral cavity.

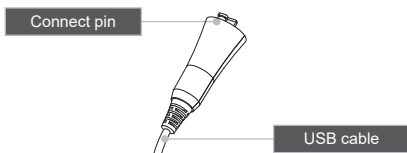
## Overview

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### 1) Camera



### 2) USB cable



## 2 Safety information

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

### Warning and caution

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Warning and caution used in this manual are shown below.



Warning

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



Caution

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

### Notes and references

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Notes and references used in this manual are shown below.



Note

Indicates that potential malfunctions may occur if the description is ignored.



Reference

Supplementary information to facilitate better operation.

## 2 Safety information

### Installation and connection



#### Warning

- Before use, check that there is no dust or foreign particles in the USB cable or connection part to avoid an electric shock.
- Keep away from sources of ignition.
- Protect the device from any liquid to avoid an electric shock or functional error.
- Place the device on a plate, stable surface, or cradle supplied.  
Dropping the device could result in an internal defect that may cause overheating or fire.
- Do not place the USB cable near a gas burner or other sources of heat. Should the cable catch on fire or become damaged, replace with a new one to avoid short-circuiting.



#### Caution

- Do not use or leave the unit in areas of high temperature or exposed to direct sunlight. Internal circuit faults may cause the device to overheat or catch on fire.
- Securely connect the dust-free USB cable. Use this device in well ventilated areas, as overheating may cause ignition.

## 2 Safety information

### Operation



#### Warning

- Do not plug in the USB cable with wet hands. This may result in an electric shock.
- Do not use this product on a person with a pacemaker as it may cause malfunction of the pacemaker.
- Use a disposable cover for each new patient to prevent cross-infection.



#### Caution

- Do not disconnect the USB cable by pulling on the cable. This may result in an electric shock or fire.
- Avoid damage or use of unnecessary force on the USB cable.  
This may result in an electric shock or fire.
- Remove the USB cable if the device is out of use for a long period of time.
- Do not use this product for any purpose other than dental use.
- This device is not waterproof. Use disposable covers to avoid wetting the device.  
In case of malfunction due to this case, it is not covered by warranty.
- The product may malfunction or the connection to the PC may be disconnected due to the ESD/EFT

## 2 Safety information

### Maintenance

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#### Warning

- Never disassemble or repair the product, this may cause injuries, electric shock, or fire.
- Avoid getting the unit wet to prevent an electric shock.
- Ensure that the USB cable is disconnected prior to cleaning.

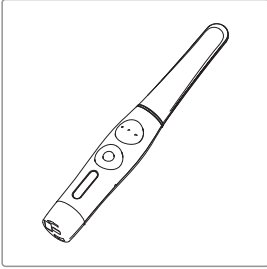


#### Caution

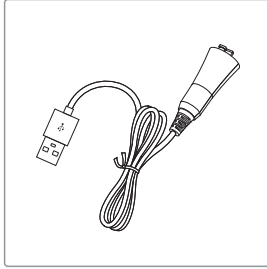
- Do not use solvents oil, ethanol, or acetone to clean or disinfect.
- The user must be in charge of the operation and maintenance of the device.

### 3 List of components

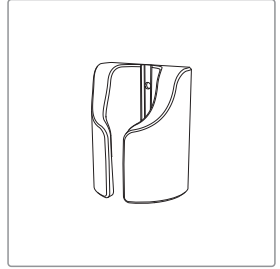
Please check the contents described below when removing the contents from the original packaging.



Camera  
(Part No. DCCUM1001)



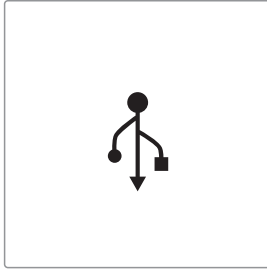
USB cable  
(Part No. AC0208)



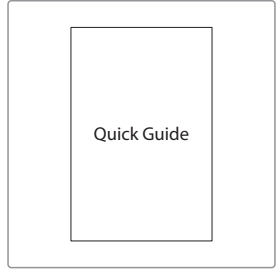
Cradle  
(Part No. AC0211)



Disposable plastic cover x 2ea  
(35 x 100mm / wide)  
(Approx. 100pcs)  
(Part No. AC0101)



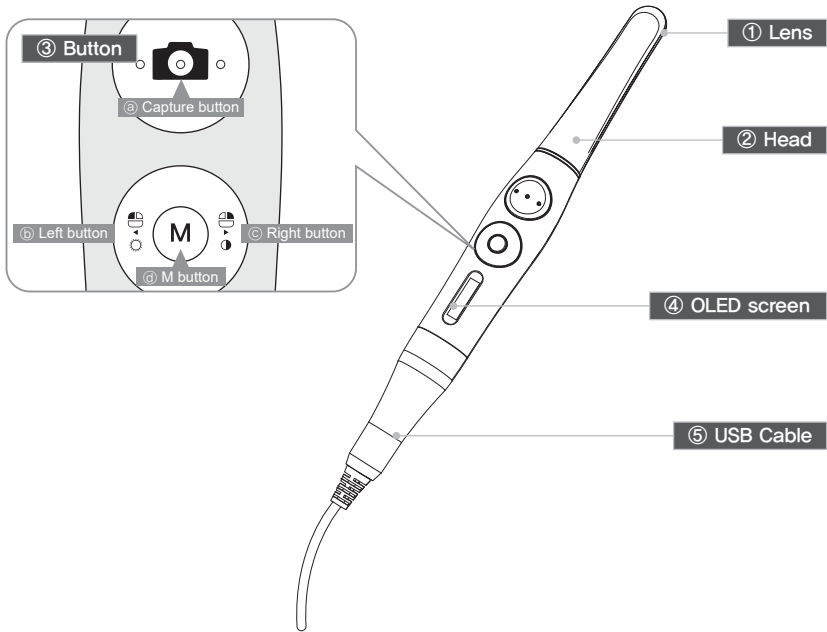
Data USB  
(Part No. AC0201)



Quick Guide  
(Part No. DCAM080801)



## 4 Parts and functions



### ① Lens

- Image is reflected on the lens through prism.

### ② Head

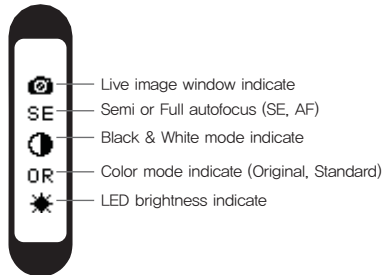
- Twistable 280° degrees

### ③ Button

- a Capture button
  - Image capture, focus adjusting, select
- b Left button
  - Mouse left button
- c Right button
  - Mouse right button
- d M button
  - Mouse moving activate, setup mode, cancel

### ④ OLED screen

- Show the device states



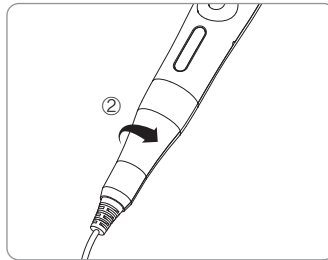
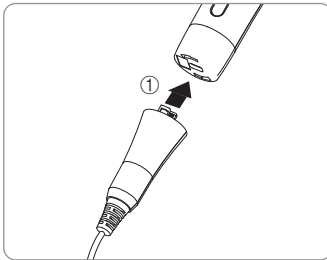
### ⑤ USB Cable

- Connect with camera and PC.

# 5 Installation

## 1. USB cable connection

Connect the USB cable with body as follow picture.



Caution

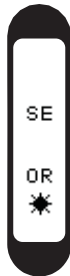
Be careful to connect the USB cable with body. Do not force too much

## 2. Camera connection

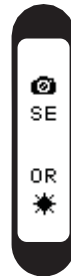
Connect the USB cable to USB port of PC. Then device is turned on.



Booting



Standby  
(live screen off)



Standby  
(live screen on)

## 3. Capture key setting

- Capture key can be changed with "HIDDr's Manager" in the USB Memory.
- Default value is "Space"



Reference

If software capture key value is unknown, contact technical support.

# 6 How to use

## 1. Turn on the device

- Connect the device to PC. Then the device is turned on with LED blink with beep sound.

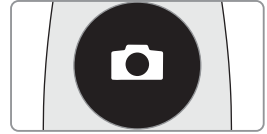
## 2. Image capture

### 2-1. Semi auto-focus mode

- Half click: Adjust focus
- Full click: Image capture
- Half click & stay: Image capture after focus adjust.

### 2-2. Full auto-focus mode

- half click: Image capture

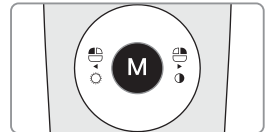


Reference

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

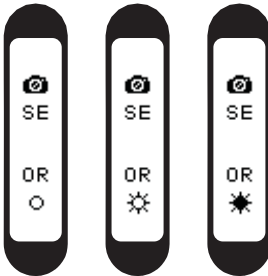
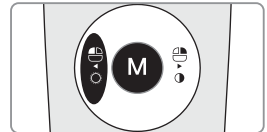
## 3. Mouse function

- Click M button and hold. Mouse cursor on the PC moves as device moves.
- Left / Right button works same as normal mouse button.



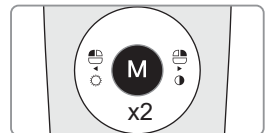
## 4. Brightness change

- Click M button with Left button for 1 sec. on live image. Then LED brightness is changed.
- Turn off ⇒ Brightness LV1 ⇒ Brightness LV2



## 5. Zoom function

- Double click and hold M button. Then specific area is enlarged.

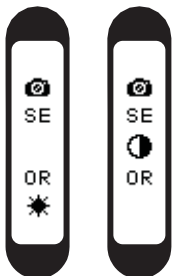
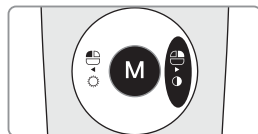


\* Need to install "Zoom function" program on the PC.

## 6 How to use

### 6. Black & White mode

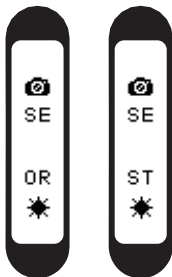
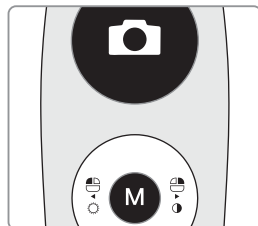
- Click and hold M button with Right button for 1 sec.  
Then LED turn off, and live image changed to black & white mode



Normal ⇒ Black & White mode is rotated.

### 7. Color impression changing

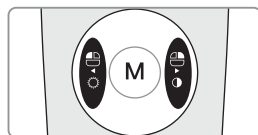
- Click and hold M button with Capture button for 1 sec.
- Original ⇒ Standard color impression is rotated.



### 8. Setup mode

- Click and hold Left button and Right button for 5 sec.  
Then it turn to setup mode.

- 1) Capture Key
  - Change capture key. (Default is "Space")
- 2) Mouse Speed
  - Change mouse cursor moving speed. (Default speed is 3)
- 3) Turn off time
  - Change the device turn off time. (Default time is 5 minutes.)
- 4) Auto-focus
  - Change focus mode. (Default is Disable (Semi autofocus))



### Cleaning and disinfection

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- Clean the camera 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 covers when using the device to avoid cross-infection and spilling any liquid into the device.

### Maintenance

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- Do not disassemble the device for any purpose.
- To repair the device, please contact authorized dealer or manufacturer.
- Remove the USB cable from PC, if the device is not in use for long period.

## 8 Trouble shooting

If the device doesn't work 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 would not work, try pressing the button gently.</p> <p>In case of installation or device setting is incorrect, the button could not work. Check the 5. Installation and 6. How to use.</p>
LED indicator does not work	<p>If the USB connection is not good, or USB electric power is not enough the camera will not work. Check the USB connection and use other USB port.</p>
Power off while in operation	<p>If the USB cable is not connected properly, the device may turn off. Check the USB cable connection.</p>
Not able to capture image	<p>Capture key-value will not match with other company dental imaging software. Please check keyboard shortcut. If you don't know please ask the dental imaging software vendor and check the key-value of device.</p>
Live image is not shown	<p>If the device is not recognized well, live image is not shown. Please check camera connection or 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>Some codec makes block 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-DCCU74
Trademark:	Dr's Cam V
Power supply:	5V USB power
Protection from ingress of liquids:	IPX0 (ordinary equipment)

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

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

## ■ Additional Information

Camera	Operation voltage	5V 500mA
	Measurement	Approx. 202 x 30 x 28 mm
	Weight	Approx. 53g
	Resolution	FHD (1920x1080)
	Sensor	5M Sensor CMOS / VCM
USB cable	Length	Approx. 3 M
Disposable cover	Quantity	Approx. 100 pcs by weight x 2ea
	Raw material	Polyethylene

## ■ Minimum system requirement

PC system:	3.3GHz CPU, 4GB RAM
OS:	Windows 7
USB port:	USB

\* Upper specification is changeable without prior notice.

## ■ Symbol



This device conforms with the European Directive, 93 / 42 / EEC which includes the requirements for electromagnetic compatibility



This symbol is appixed 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.

SN

Serial number 00 00 00 0000  
Model / Month / Year / Serial



Warning, Caution



Type B applied part



Manufacturer



Authorized representative in the European Community



Check user manual.








Prevent by wet.

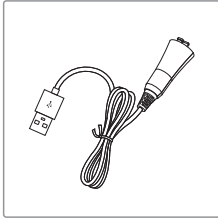


This box is paper recyclable.

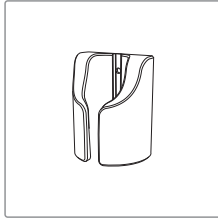
## 9 Specification

 Transport temperature.	 No hooks	 Fragile item
 Reuse is not allowed	 Do not device on place where get direct sunshine.	

## 10 Accessories



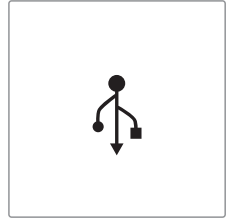
USB cable  
(Part No. AC0208)



Cradle  
(Part No. AC0211)



Disposable plastic cover  
(35 x 100mm / wide)  
(Approx. 100pcs)  
(Part No. AC0101)



Data USB  
(Part No. AC0201)

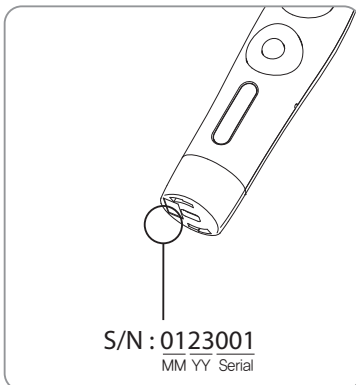
## 11 Warranty

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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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.



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