

CAM-02 series of Digital dental camera

Operation instruction

(Technical Instruction)

YOUJOY®

Dear customer: Thanks for using Youjoy CAM-02 series Digital dental camera!

CAM series dental camera, which specially designed for dentist, is a micro-portable equipment can be put into the oral cavity. The camera can focus and form the picture automatically with your need. The capturing and storage function of camera can be controlled by fixed Host. It improves the communication efficiency between dentists and patients. CAM series are separated by four types as follows: CAM-01, CAM-02, CAM-03, and CAM-04.

User Registration

You will find the model number, serial and reference number at the back of the camera. Please check the numbers and fill in the form with them before you contact with your local distributor.

Model number: _____

Serial number: _____

⚠ Cautions:

Before operating the dental camera, please read carefully about the Operation Instruction. This Operation Instruction will help you understand all functions of youjoy Digital Dental Camera as much as possible.

Please strictly follow the Operation Instruction while servicing and maintaining.

Please keep this instruction for your future references.

If error occurs during operating the machine, please get in touch with your local distributor or us for our best qualified service and assistance.

1 Safety Issues

1. Please plug the power cord in a 100V-240V~50/60Hz electrical socket. Don't use electrical outlet without the correct voltage, otherwise it might cause fire or electric shock.



2. Don't wet your hand before plugging or unplugging the power cord.



3. Don't place your camera on an unstable table, moving desk or any other shaking surface.



4. Please unplug the power cord if the machine won't be used for a long time.



2 Technology parameter

Power	5V±0.5V (1500mA)
Image sensor	1/4" sony HAD CCD
Illumination	6XLEDs (LED)
Handle weight	0.036kg
Handle lead	1.7m
Focus range	5mm-40mm
Image capture	Pedal button Handle button
Mode	Full-screen 4 grids
Interface	VGA monitor/USB2.0 interface/Pedal

3 Configuration

3.1 Standard configuration

- | | | |
|---------------------------------|----------------------------|---|
| 1) Camera handle-----1 piece | 2) Sheath-----20 pieces | 3) Host-----1 piece |
| 4) Handle lead-----1 piece | 5) Transformer-----1 piece | 6) VGA line-----1 piece |
| 7) Magnetic bracket ----1 piece | 8) USB line-----1 piece | 9) fashiondentist management software-----1 piece |

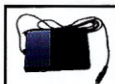


3.2 Optional Configuration

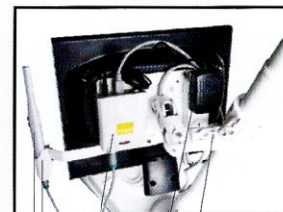
1) Monitor bracket



2) Pedal button



3) Wireless image multiplexer



Camera handle
Magnetic bracket
Host
Monitor bracket
Transformer

■ Camera handle

Camera handle is a manipulative part. (Fig 3-1)

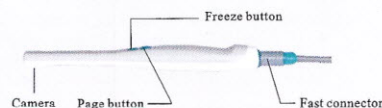


Fig3-1

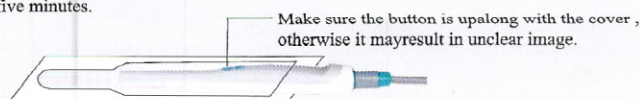
(1) Freeze button: Transfer freeze image and active image from each other.

(2) Page button: Read pictures page by page, 8 pictures can be displayed in a circle. Press the page button for 3s when the image is active, the two types of image mode (Full-screen 4 grids) could transfer from each other.

(3) Camera: with fast focus and luminous light, the camera is very suitable for picturing and watching inside oral cavity. The camera LED lights will automatically extinguish without any operation in five minutes.

■ Sheath (Fig 3-2)

In order to avoid cross infection, sheath is used to wrap the camera handle.



■ Host (Fig 3-3 Fig 3-4)

Instruction of the board in the front of Host

instruction of the board in the back of Host



Fig3-3

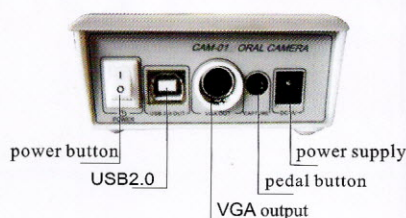


Fig3-4

Host can store eight full-screen images.

■ Handle lead

Handle lead is a data line connected with camera handle and host. It adopts a fast connector which can be inserted and pull out quickly. The data line is flexible and can be sterilized under high temperature and high pressure.

■ VGA line

VGA line is a data line connected camera with VGA screen.

4 Operation

First step: install CAM in accordance with the Fig 4-1

Second step: plug the power cord, and turn on VGA monitor or software.

Third step: press the POWER button to turn on CAM.

1. How to capture images?

Hold the camera handle as Fig4-2 shows. When the image is active, let the camera, which will adjust focal length automatically, focus on what you want to capture. Then press the freeze button until the picture looks clearly. At this time the image is freeze and stored in the host.

2. How to capture the next image?

After capturing an image, you must press the page button to make the image return to be active.

3. How to delete the last image?

After capturing an image, press the freeze button to delete the last image, then the image will return to be active.

4. How to utilize the 4 grids function?

Press the page button for 3s until the screen is active; the two types of image mode(Full-screen 4 grids)could transfer from each other.

Fig 4-3 shows 4 grids image.



Fig4-1

5. How many images the host could save at most?

Normally, the storage capacity is 8 images.

If you utilize 4 grids function, the host could store 32(8*4) images.

Notice: If you use software to save the images, you can save as many images as possible.

6. How to review the images in store?

Press the page button after capturing 8 images, then you can review all of the 8 images.

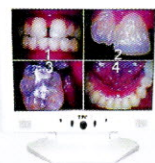


Fig4-2

7. How to make use of the management software?

Read the Operation Manual in the CD which describes how to install and make use of this software.

6 The mark card

MODEL:CAM-02 Dental Oral Camera
SUPPLY FREQUENCY:50/60Hz VOLT:AC100-240V
POWER CONSUMPTION: ≈ 2W WEIGHT:500g
S/N: MFG.DATE:
Ningbo YOUJOY Medical Instrument Co.,Ltd.
No.275,lane 321,Tongning Road,Jiangbei Investment&
Pioneering Park C,Ningbo,315033, China
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7 Maintaining

6.1 Please get in touch with local distributor or our company if the product doesn't work.

6.2 To not affect working effect and to meet the safety requirements, the camera service life is four years.

6.3 Please make sure the power is off while maintaining.

6.4 To wipe off the stain, please clean the cover or associated part with mild soap or few detergent.

6.5 Don't let the liquid go inside while maintaining.

6.6 Please follow carefully the instructions of this operator's manual and we can offer

■ Magnetic bracket

Magnetic bracket is a magnetic switch. When you put the camera handle back into the magnetic bracket after using the camera handle, the camera LED lights will automatically extinguish.

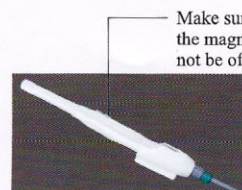


Fig3-5

Make sure the button is outward when you put it into the magnetic bracket, or the camera handle light will not be off automatically.

■ USB line

USB line is a data line connected camera handle with PC.

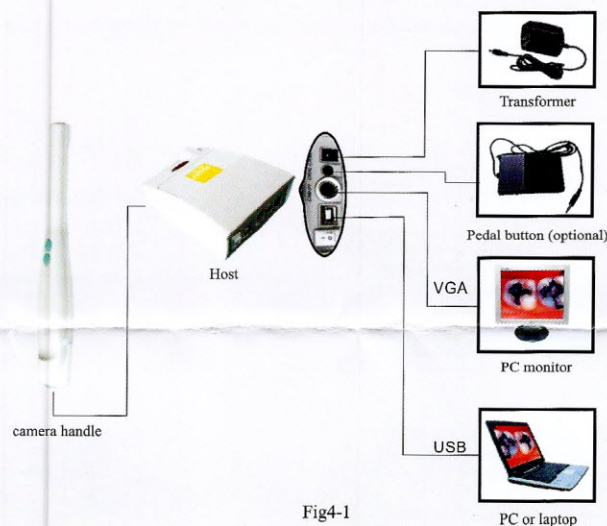


Fig4-1

5 Exception handling

If some exception happened on the camera, please solve problems according to Table 5-1 as follows. Please contact to your local distributor or our company if the solutions in Table 5-1 isn't working.

Item	Exception	Solution
1	Turn on CAM, but the host doesn't work	Check power cord and power connectors on the host
2	Screen without image	1) Check VGA & USB line and connector 2) Check if software driver is installed and attribute is set correctly
3	Fuzzy image displays	It is a normal phenomenon if you use it for the first time
4	The freeze image is unclear	1) Don't move camera handle until you freeze the image 2) Repeat operating until you feel practiced
5	The image on screen is stained	1) Check if the screen has stain 2) Check if camera is stained, use clean tampon clean the camera gently
6	The screen turns out to be black or blue	Please restart the camera according this Operation Instruction

Fig5-1

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