

OMEGA CAM

USER'S MANUAL



CORD TYPE

-
- **OMEGA CAM** must be installed by a qualified dental engineer.
 - All instructions in this **USER'S MANUAL** must be read before installation or operation.

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NOTE

Use only the specified accessories.



Read before use.



Type BF applied part.



Double insulated equipment.

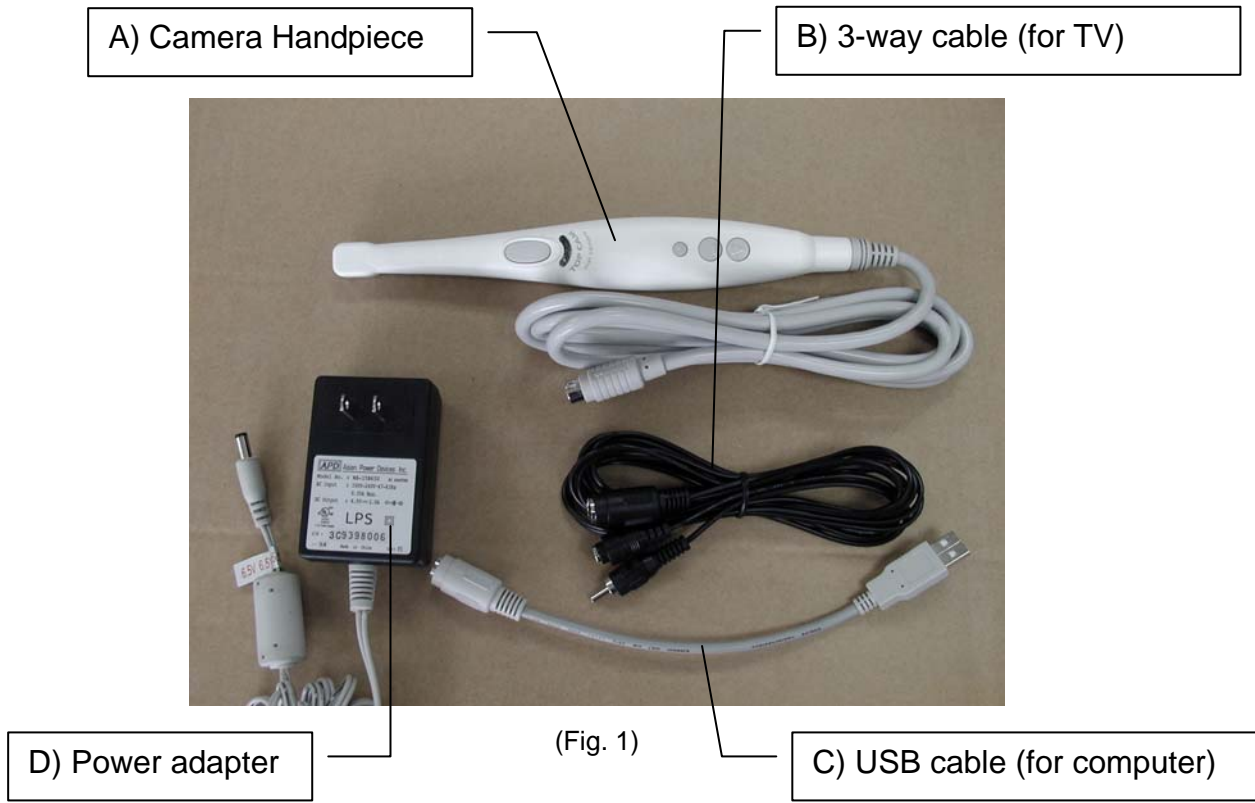
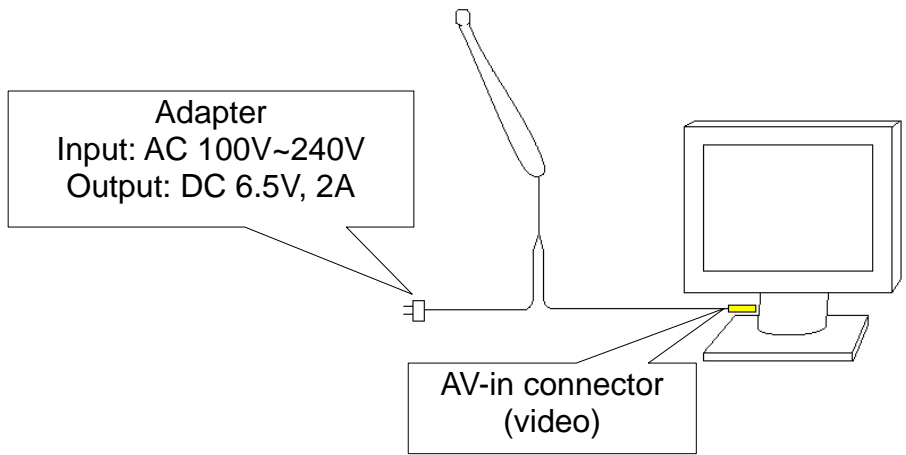
1. PRESENTATION

OMEGA CAM is an oral camera for use in dental surgery. It can help dentists present their practices and communicate with patients. The hand-piece contains a portable hard disk which stores the images, and allows image management.

2. ADVANTAGES

- 1 No need for any extra software.
- 2 Takes images wherever it is carried.
- 3 Quad and single image available.
- 4 Auto-focusing, easy control.
- 5 Editing on PC through USB connector.
- 6 True color, high quality.<640 × 480 pixels>
- 7 View angle : 60° field.
- 8 PAL and NTSC available.
- 9 Saving 150 ~ 180 images maximum.
- 10 Saving and Delete facilitated.
- 11 Sleep Mode saving energy.
- 12 Images saved forever even power off.
- 13 Color CCD 1/4 inch lens.

3.CONSTITUTION



4.INSTALLATION

Installation differs from connection with different display devices.

1 Taking pictures on TV (video signal : NTSC or PAL optional) or LCD Monitor.

Step 1 Connect 3-way cable (Fig. 1, B) to TV / LCD. (“video in “ AV connector, female)

Step 2 Connect camera handpiece(Fig. 1, A) with 3-way cable.

Step 3 Connect 6.5V adapter (Fig. 1, D) with 3-way cable and the plug into socket.

Step 4 Switch “on” the power on TV or LCD monitor.

Step 5 Ready for operation.

2 Editing images on Computer

If LCD Monitor doesn't have the “Video in” connector, connect it with an extra TV Signal Converter (TV Tuner or TV Box) first.

Step 1 Connect the camera handpiece (Fig. 1, A) with USB cable (Fig. 1, c) to the computer.

Step 2 **OMEGA CAM** is Plug & Play for window 2000 & XP. For window 98 and earlier, you will need to install the driver provided on the CD Rom first.

Install the driver:

a) Place the Driver CD-ROM properly.

b) Follow the path : Start Menu→Setup→Control panel →Add New Hard Device.

c) Selector “next”.

d) Select the driver's path from the hard disk where shows the CD-ROM : **SPCA533 /umss/umss.inf**.

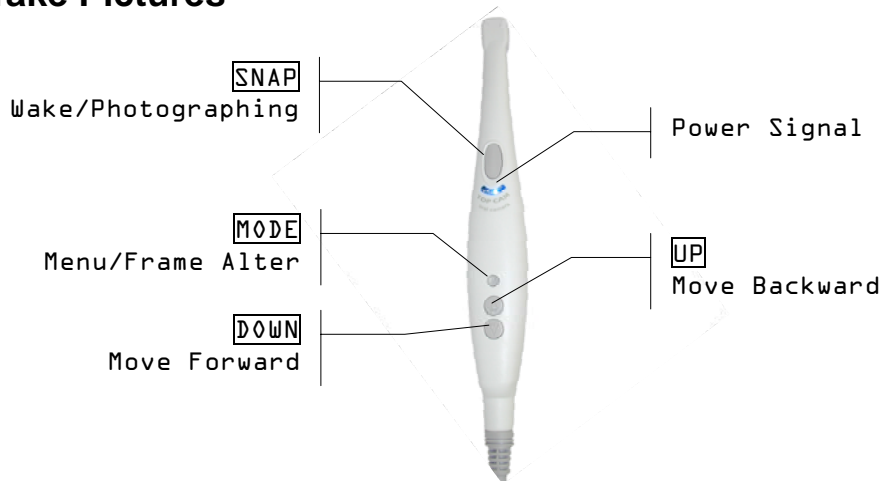
Step 3 Under “My computer” you will see a “portable HD” folder. Click on this folder to view all the image files saved in the camera handpiece.

Step 4 Choose any software (eg. Photoshop) to edit the images.

<p>NOTE OMEGA CAM can “take photos” on TV/LCD monitor, and also on computer with a TV Tuner (TV Box).</p>

5. OPERATION

a. Take Pictures



- 1) Press **SNAP** to use the camera or wake up the camera.
- 2) Aim on the object to view (keep at least 5mm away from the object). The picture shown on screen is what will be saved.
- 3) Steady the camera and press **SNAP** to take a photo.

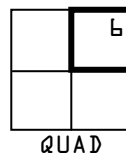
Do not move the camera until “beep” sound is heard, indicating the image capture is completed.

Keep the camera steady while taking the picture to prevent the picture being blurred.

- 4) You are now ready to take the next photo.

b. Preview Pictures

- 1) Picture's number will be shown on top right hand corner of the screen.
- 2) Press **MODE** to alter screen frame between SINGLE and QUAD mode. In QUAD mode, it only highlights & numbers the top right picture.



- 3) Press **UP** to move records forward. Ex: 6→5→4
- 4) Press **DOWN** to move records backward. Ex: 6→7→8

c. Delete Pictures

1) Press **MODE** for 5 seconds to retrieve “Delete” menu.

A pop up menu as below will appear :

Delete	
Exit <input type="checkbox"/>	Exit the delete menu.
Delete One <input type="checkbox"/>	Delete only the picture shown on screen.
Delete All <input type="checkbox"/>	Delete all pictures.
Format <input type="checkbox"/>	Format the setting <input type="checkbox"/> do not select this option <input type="checkbox"/>
** see "NOTE" for details **	

2) The picture numbers do not change once an image has been captured.

Number of a deleted picture will be missing from the number sequence.

3) Picture can not be saved when memory is full. To capture more images, please delete some or all pictures to release the space for new photos.

NOTE OMEGA CAM can only show photos taken originally by its handpiece. If users by chance mis-download / mis-save files / photos from computer into the handpiece, the capability of it will be suddenly decreasing without showing the mis-downloaded / mis-saved files / photos on the screen. Only in that case, users can “FORMAT” the handpiece. But all the needed or mis-saved records will be deleted completely.

d. When Memory is Full

Delete some or all the pictures once “FULL” is shown on screen.

“Beep” sound will be heard while pressing **SNAP** if memory is full.

e. Save Power

1) The super white LEDs will turn off and the unit will turn into sleep mode to save power when the unit is not in using for 90 seconds.

2) The last picture will be shown on screen while camera is in sleep mode.

3) Press **SNAP** to wake up the camera for further operation.

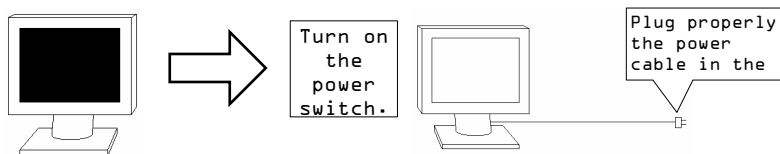
6.MAINTENANCE

- 1 Clean the unit with soft cloth after using.
- 2 Use the attached disposable shelter to prevent the unit becoming a carrier of infection or disease. Never apply used shelter on another person.
- 3 Prevent it from damage by any impact while moving or transporting.
- 4 Conditions for storage and operation :
Temperature : 0°C~40°C
Humidity : 30%~90%

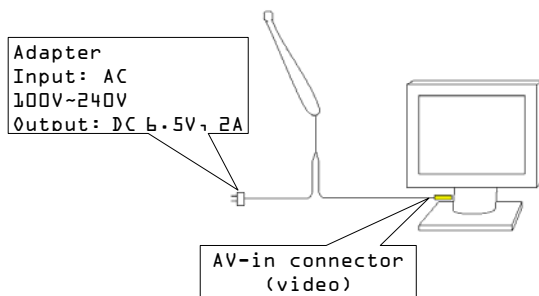
7.TROUBLE SHOOTING

Fault 1. No image on the screen.

Solution 1 Check power wire & plug

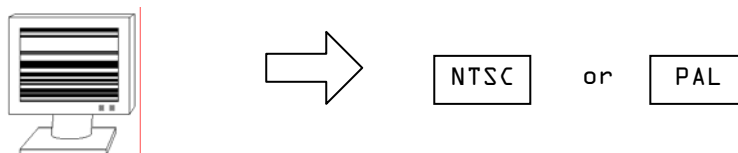


Solution 2 Check connectors

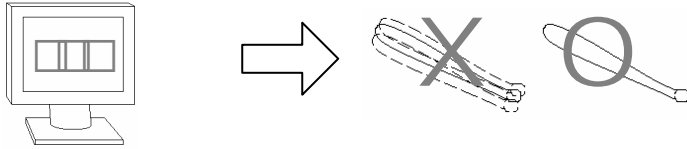


Fault 2. Mixed image shown on the screen.

Solution Select NTSC or PAL to match your local TV system.



Fault 3. The photo is indistinct.



Solution

- 1) Keep 15~35mm for better images taken.
- 2) Keep the camera handpiece stable while pressing **SNAP** until a "beep" sound is heard.

8.SPECIFICATION

1 SPECIFICATION

Input	AC 100V~240V, 47~63Hz
Output	DC 6.5V, 2A
Handpiece Dimension	L231 × W32 × H24 mm
Handpiece Weight	169g (including cable)
View Angle	60° field
Video signal	PAL / NTSC optional
Lens	640 × 480 pixels color CCD 1/4 inch

2 ACCESSORIES

OMEGA CAM Handpiece		x 1	pc
Switching Power Adapter		x 1	pc
European Plug	: 105190		
US Plug	: 105189		
3-way Cable		x 1	pc
PAL	: 104073		
NTSC	: 104072		
USB Cable	(104071)	x 1	pc
Disposable Shelter	(103049)	x 100	pcs
Driver CD Rom	(109033)	x 1	pc
Slip Holder	(101046)	x 1	pc

9.WARRANTY

- 1 This instrument described in this manual has been fully inspected and conforms to the current product specification.
- 2 This instrument is warranted for its designated use, against original defects in materials and workmanship for period of 12 months from date of purchase. Repairs necessitated by misuse or disassembling of the equipment or by the parts not provided by the manufacturer are not covered by this warranty.

- 3 To prevent delay in processing a claim under the warranty, the registration card should be completed and returned at the time of purchase.
- 4 All warranty terms are subject / based upon the warranty card enclosed in each unit.

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