



Wireless Intraoral Camera Imaging System

Copernicus is the total imaging solution that you have been dreaming of. The system includes super high resolution wireless intraoral camera and multipurpose wireless 10.4" LCD monitor.




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Attention for the Safety Use


Please read this document carefully and use all the functions correctly.
It is not only for your safety but also safety of people around you and to prevent lose of property.


Please refer below symbols and denotation.

-  **Danger** This symbol means there is a high possibility of death or serious injury if you ignore the meaning of symbols and use the products wrong.
-  **Warning** This symbol means there is a possibility of death or serious injury if you ignore the meaning of symbols and use the products wrong.
-  **Attention** This symbol means there is a possibility of injury and damages of items if you ignore the meaning of symbols and use the products wrong.

Warning

 **Prohibited** Do not attempt to disassemble, repair or modify. There is a possibility of the electric shock or injury.

 **Prohibited** When items are broken by falling objects or accidentally dropped and inside parts are exposed, do not touch the exposed or broken parts. There is a possibility of the electric shock or injury.

 **Prohibited** Do not put any liquid on items. There is a possibility of the fire or electric shock.

Package Items

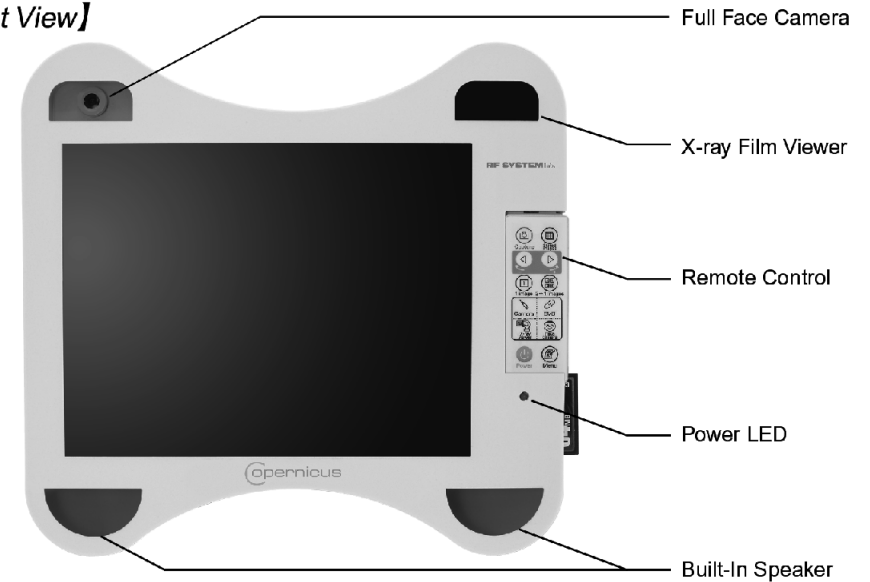
Before using the Copernicus, please verify that all the necessary items are included.
If you find any part missing, defective, or damaged, please contact RF System lab.



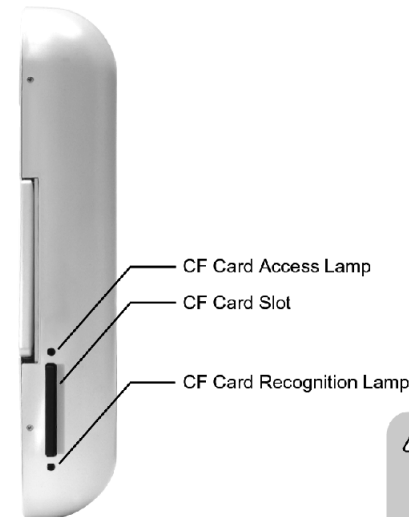
Features

Monitor

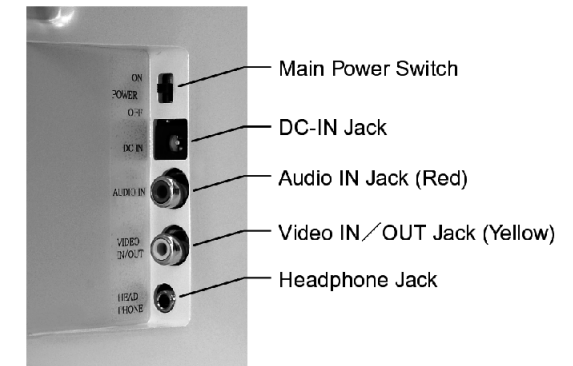
【Front View】




【Side View】



【Backside】

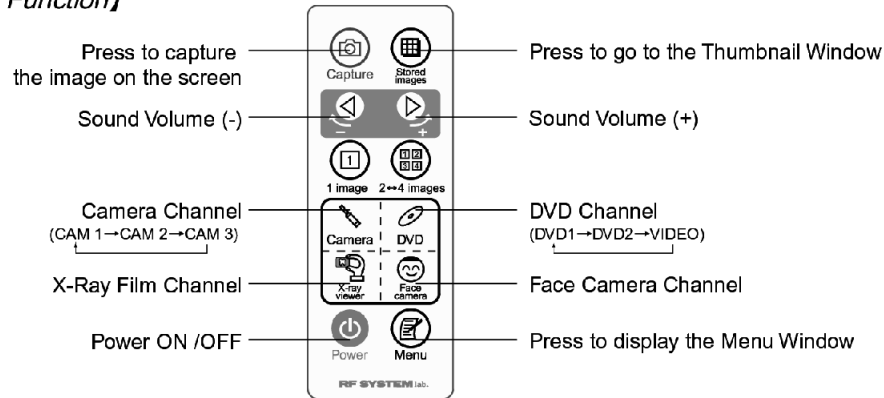


 Slide in/ out the remote control when putting it in/ out.

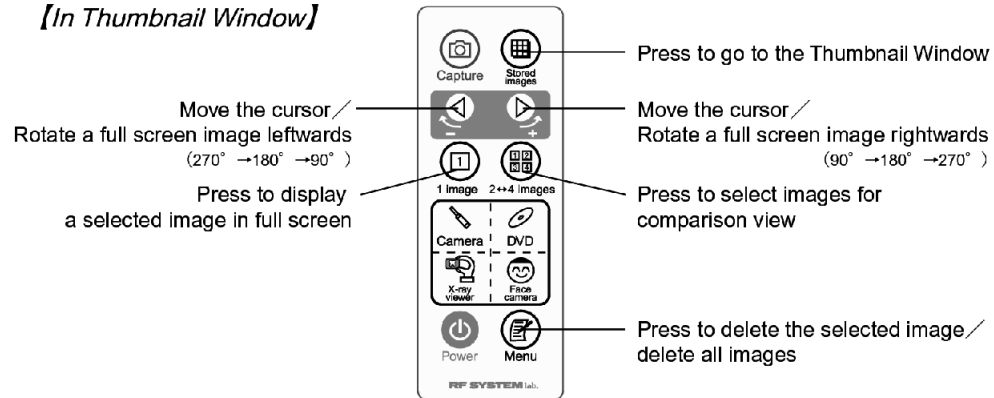


Remote Control

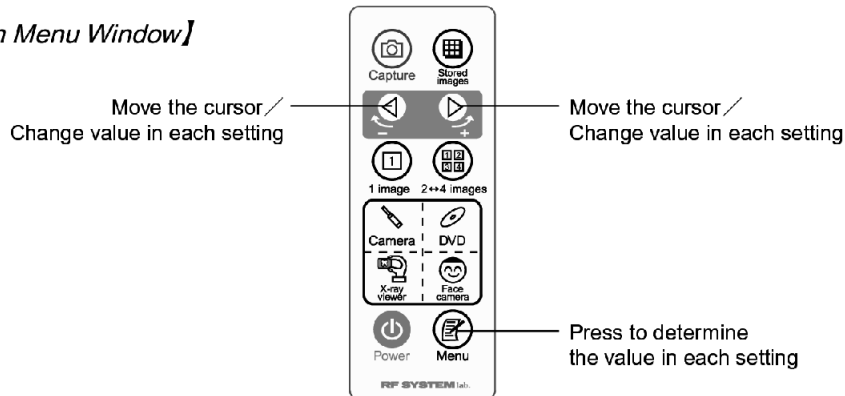
【Main Function】



【In Thumbnail Window】



【In Menu Window】



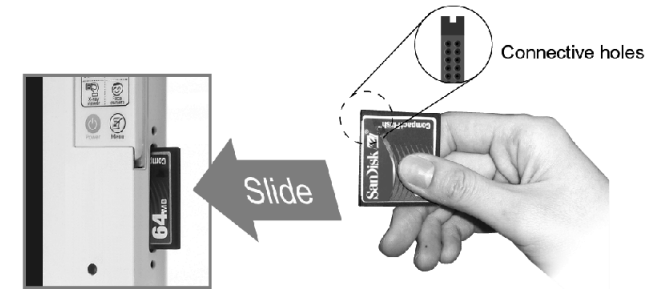
Basic Usage

Turn on the Power (Monitor)

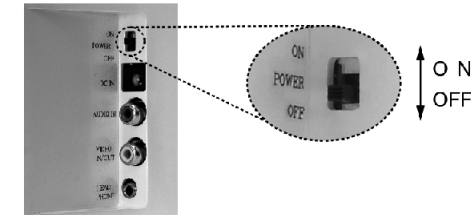
- ① Connect the AC Adapter to the DC IN Jack and the AC Outlet.
- ② Insert the attached CF Card to the CF Card Slot.



※ Main power of the monitor must be OFF when inserting / pulling out the CF Card to / from the monitor. It may cause malfunctioning or damage the stored images of the CF Card if the CF Card is removed or inserted when the main power is ON.



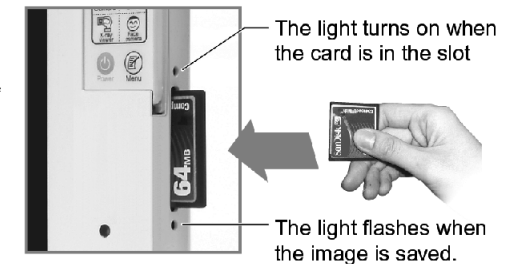
- ③ Slide the Main Power Switch up to turn on the power.



Light Indicator



- No light : Main power off
- Red : Stand-by
- Green : ON(ready)

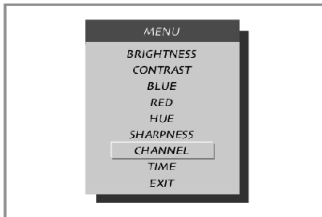


Adjust the Channel Setting

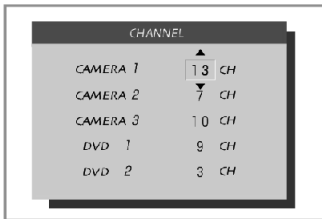
※Adjust the channel setting before the first use.



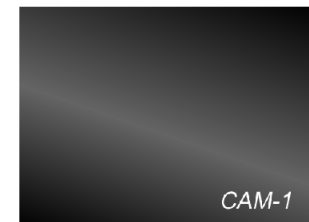
① Press [Menu] Button. The Menu window appears.



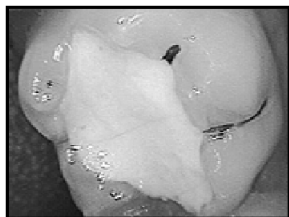
② Select CHANNEL with Buttons and press [Menu].



③ Set the channel in correspondence with your intraoral camera with Buttons and press [Menu].



④ Press [Camera] Button to enter the camera mode.



Live Image

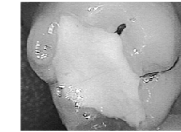
⑤ Turn on the power of the Camera by sliding down the Operating Button and holding for approximately 3 seconds. Confirm that the image from the Camera is displayed on the Monitor.



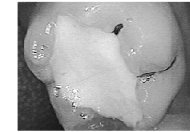
Capture Images with Camera

Slide down and release the Operating Button on the Camera. The image on the monitor will freeze with a shutter sound, and be saved on the CF Card.

※The shutter sound may not be heard if the volume is OFF.



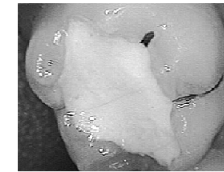
Live Image



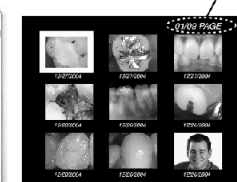
Captured

View Images Stored in CF Card

① Press [Stored Image] Button. The Thumbnail Window appears.



Live Image



01/09 PAGE

The number of total pages

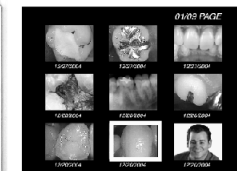
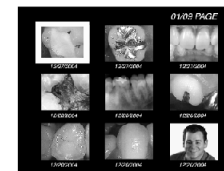
Current page number





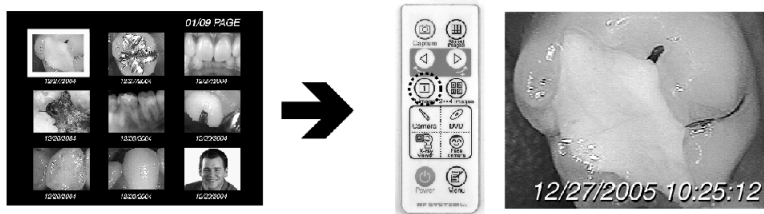
※If there is no image stored in CF Card, a message "NO IMAGE" appears.

NO IMAGE

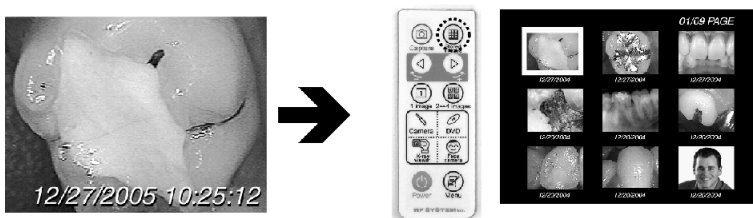
② Move the displayed green cursor with Buttons




- ③ Press  [1 Image] Button to display the selected image in full screen.
(Press  [1 Image] Button again when you do not wish to show the date and time)



- ④ Press  [Stored Images] Button to go back to Thumbnail Window.

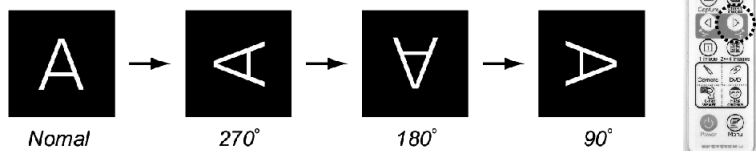


Rotate Stored Images

- ① When displaying an image in full screen, press  Button to rotate the image.



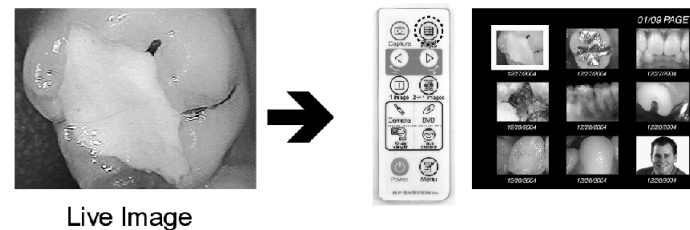
- ② Press  Button to rotate the image.





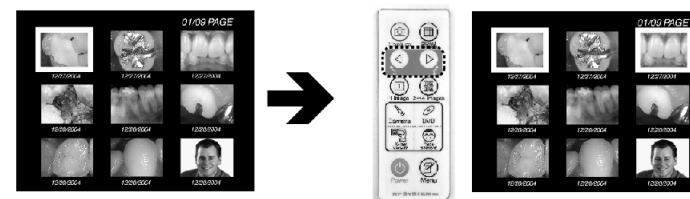
Comparison View


Select up to 4 images and display them in one screen.

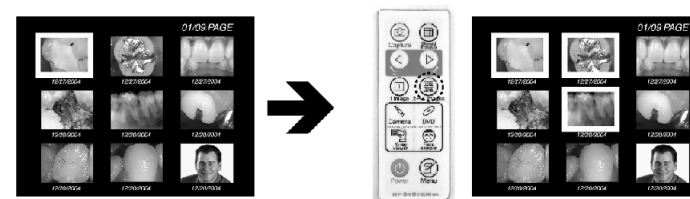
- ① Press  [Stored Images] Button to display the Thumbnail Window.




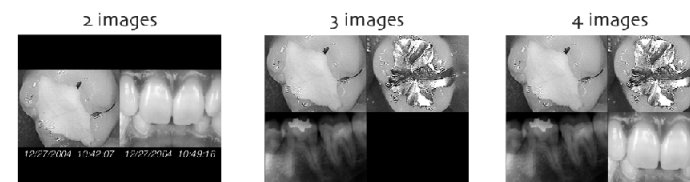
- ② Move the green cursor by pressing   Button to the first image for comparison.



- ③ Press  [2⇔4 Images] Button. The frame of the selected image goes red.
(When the cursor is on the selected image, the color of the frame goes green.)






- ④ Go over the procedure ②—③ to select up to 4 images. When you wish to display only 2 or 3 images, press  [Capture] Button when you finish selecting. 4-image-display appears automatically after you have selected the fourth image.



Delete Images in CF Card

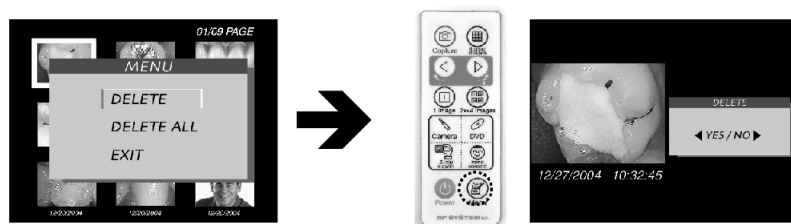
[Delete One Image]



① Press  [Stored Images] Button to display the Thumbnail Window.

② Press   Button to move the blue cursor to the image you wish to delete, and press  [Menu] Button.



③ Confirm that the cursor is on DELETE, and press  [Menu] Button.



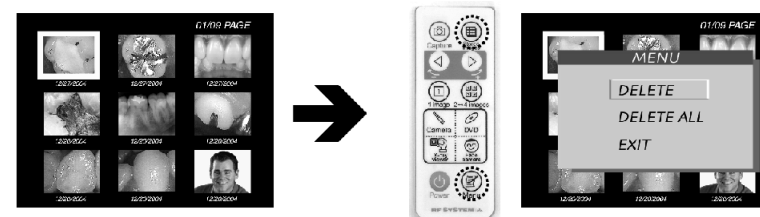
④ Press  Button to delete the selected image and  Button to cancel the action.


Delete Images in CF Card

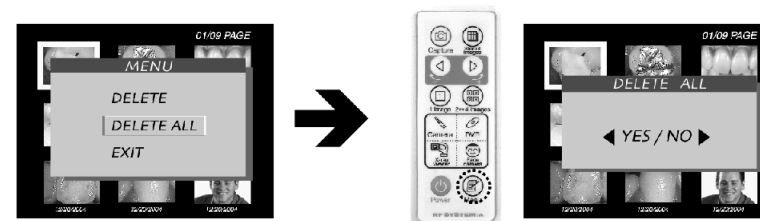
[Delete ALL]

① Press  [Stored Images] Button and display the Thumbnail Window.

② Press  [Menu] Button



③ Select DELETE ALL and press  [Menu] Button again.




④ Press  Button to delete all the images and  Button to cancel the action.

⚠ CAUTION

- ※ All stored images will be deleted from the CF memory Card.
- ※ It may take a few minutes to delete a large number of images.

Capture and Store Images with Remote Control

- ① Show the image you wish to capture (ie: X-ray film, Full face.)
- ② Press  [Capture] Button. The image on the monitor freezes with a shutter sound.
 - ※ There is no shutter sound when the channel is set at DVD, or the volume is OFF.




Live Image



Captured

Display Face Camera Image

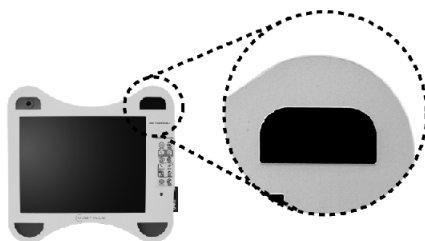
- Press  [Face Camera] Button to display the image from the Face Camera. (Focus of the Face Camera can be adjusted)

FACE Camera




Display X-ray Film Image

- ① Set an X-ray Film to the X-ray Film Viewer.




X-ray Film

- ② Press  [X-ray Viewer] Button. The LED lamp on the viewer lights up, and the X-ray film image will be displayed on the monitor.





Watch DVD with Hertz or Hertz-L

- ① Press  [DVD] Button and adjust it to the Hertz or Hertz-L channel.
 - [DVD-1 (Press once) DVD-2 (Press twice)]



- ② Turn on the main power switch of Hertz or Hertz-L to play DVD.
 - (Please refer to the user guide of Hertz for detailed information)


【Sound Volume Setting】

Press  to turn down the volume, and  to turn up the volume.

Connect with other devices

- ① Connect RCA jack (Video and Audio) of Copernicus to the RCA output jack of your video device (VCR, TV, etc.) with an AV cable (AV cable is not included in the package).



- ② Press  [DVD] Button 3 times and set the channel to VIDEO (external input). Confirm the image/sound from the other device.



Picture Quality Settings



- ① Press [Menu] Button. The MENU Window appears.

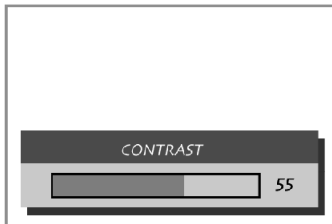


- ② Move the cursor with Buttons and press [Menu] Button to select an option you would like to adjust.

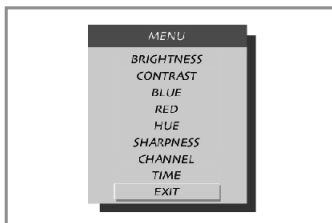


[Default Setting]

BRIGHTNESS 40
 CONTRAST 30
 BLUE 60
 RED 60
 HUE 70
 SHARPNESS 4



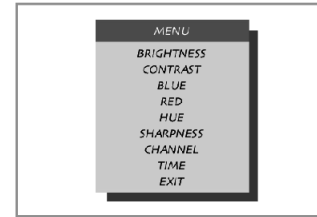
- ③ Press Buttons to change the value. Press [Menu] to go back to MENU Window.



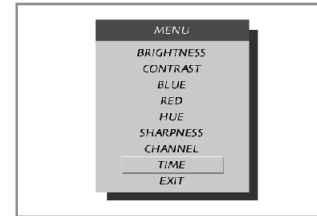
- ④ Move the cursor with Buttons and select EXIT. Press [Menu] Button to go back to the live image.



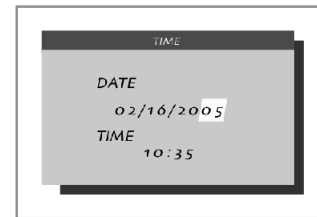
Date and Time Settings



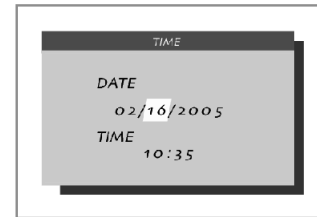
- ① Press [Menu] Button to display MENU Window.



- ② Move the cursor with Buttons to select Time, and press [Menu] Button. Date and Time will be displayed.



- ③ Adjust date and time with Buttons. Press [Menu] Button to go to the next section.



- ④ Each time you press [Menu] Button, the cursor will move to [Year→Month→Day→Hour→Minute]. When setting is finished, press [Menu] Button again to go back to MENU Window.





- ⑤ Move the cursor with Buttons and select EXIT. Press [Menu] Button to go back to the live image.

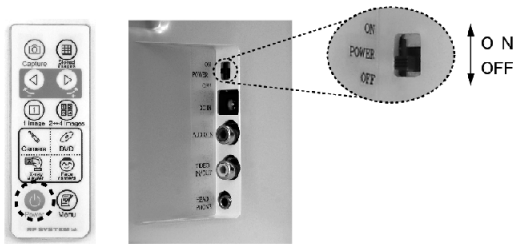


Turn Off the Power

Turn Off the Power of the Monitor

※Press the  [Power] Button. The power will be on by pressing the  [Power] Button again.

※The power can also be turned off by sliding the *Main Power Switch*, which is located on the back side of the monitor to the "OFF" position.



Troubleshooting

Trouble	Answer
1. Cannot turn on the power of the Monitor	<ul style="list-style-type: none"> · Confirm if the AC Adapter is securely connected to AC Outlet and the DC IN Jack of the Monitor.
2. Cannot display images in the CF Card.	<ul style="list-style-type: none"> · Confirm if the CF Card is securely inserted into the CF Card Slot.
3. Cannot read images in the CF Card.	<ul style="list-style-type: none"> · Copernicus can only read and display images, which are supported by the Copernicus system. · Copernicus maintains the files by date. If the file name is changed, the system cannot recognize the file. If you wish to change image file name, please copy the image to your computer prior to make the change. · The images may not come up due to damages in the memory file. The file may be damaged when the CF Card is inserted or removed from the monitor with main power ON. If the files are damaged, the memory card needs to be reformatted. <ol style="list-style-type: none"> 1. Connect a CF memory card reader to your computer and insert the malfunctioning card in there. 2. Double click on th "My computer" icon. 3. Right click on the "Removal Device" and click on the "Format". <p>※Once the memory card is reformatted, all stored images will be deleted.</p>
4. System is slow.	<ul style="list-style-type: none"> · The system may slow down when you try to delete a large number of images at a time. · When a large number of images are stored in a CF Card, it may take a few seconds to store the image, or to display the Thumbnail Window.
5. Cannot turn on the power of the Camera	<ul style="list-style-type: none"> · Make sure the battery of the Camera is charged.
6. The image are not in proper colors.	<ul style="list-style-type: none"> · Press on the "MENU" and adjust color. (Refer page 15)

*continue to next page

<i>Trouble</i>	<i>Answer</i>
7. Nothing is displayed on the screen.	<ul style="list-style-type: none"> · Be sure the main power is ON. (Refer page 6) · Be sure the channel is set to the corresponding camera channel. (Refer page 7)
8. Images do not get saved to the CF Card.	<ul style="list-style-type: none"> · Be sure the card is inserted properly. (Refer page 6)

Due to the system structure, Copernicus can only store up to 891 images in a CF Card. The 892nd image cannot be saved in a CF Card.

Image Memory Capacity

<i>Type of Image</i>	<i>CF card Memory Size</i>			
	<i>32MB</i>	<i>64MB</i>	<i>128MB</i>	<i>256MB</i>
Intraoral				
DVD	213~320 images	426~640 images	852~891 images	891 images
FACE				
FILM	400~640 images	800~891 images	891 images	891 images

NOTE:

The maximum number of images Copernicus system can save into a memory card is 891 pictures regardless in its type or size. The number shown in the above is the estimation and it may differ depending on images.