8” Inch LCD + Intraoral camera

Operation and Installation Manual

(TD-6050C)

Wireless model

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1. Introduction

1.1. Product introduction

Dear value customer,

Thank you for buying our company's products, this product is specially designed for dentist; it combines intraoral camera and 8Inch LCD which makes dentists easier to operate anywhere and anytime. It can instead the Big LCD and install it in the dental unit directly. Moreover, it can upgrade to connect with intra oral camera either wired or wireless which can let dentist view the image immediately on the screen.

1.2. Package content

1. TD-6050C	1 piece
2. Video cable	1 piece
3. USB Cable	1 piece
4. Disc	1 piece
5. Camera sheath	50 pieces
6.DC5V/3A Power supplier	1 piece
7. TD-986 (TF card)	1 piece
8. Camera holder	1 piece

1.3. Optional components

1. TD-91 Wireless transmitter
2. TD -97 Wireless receiver
3. TD -22 LCD Holder
4. TD -99 2.5inch small monitor

1.4. M-868A Characteristic

1. CMOS intra oral camera and 8 inch LCD integrated
2.8 inch LCD can freely adjust contrast, lightness and color;
3. Replace traditional LCD on dental chair;
4. Can be freely 45° adjusted;
5. With high resolution and high performance;
6. Suitable for PAL and NTSC system
7. Offer wired and wireless system

2. 8 inch LCD monitor specification

1. LCD Size : 8.0inch (Diagonal)
2. Driver element: a-Si TFT active matrix

3. Resolution: 800*3(RGB)*600
4. 4,Display mode: Normally White, Tran missive
5. Dot pitch: 0.0675(W)*0.2025(H)mm
6. Active area : 162.0(W)*121.5(H)mm
7. 7,Module size: 183.0(W)*141.0(H)*6.3(D)mm
8. 8,Surface treatment: Anti-Glare
9. Color arrangement: RGB-stripe
10. Interface: Digital
11. 11: Backlight Power consumption:1.782W(TYP.)
12. Panel power consumption :0.356W(TYP)

3. Operation

3.1 LCD operation

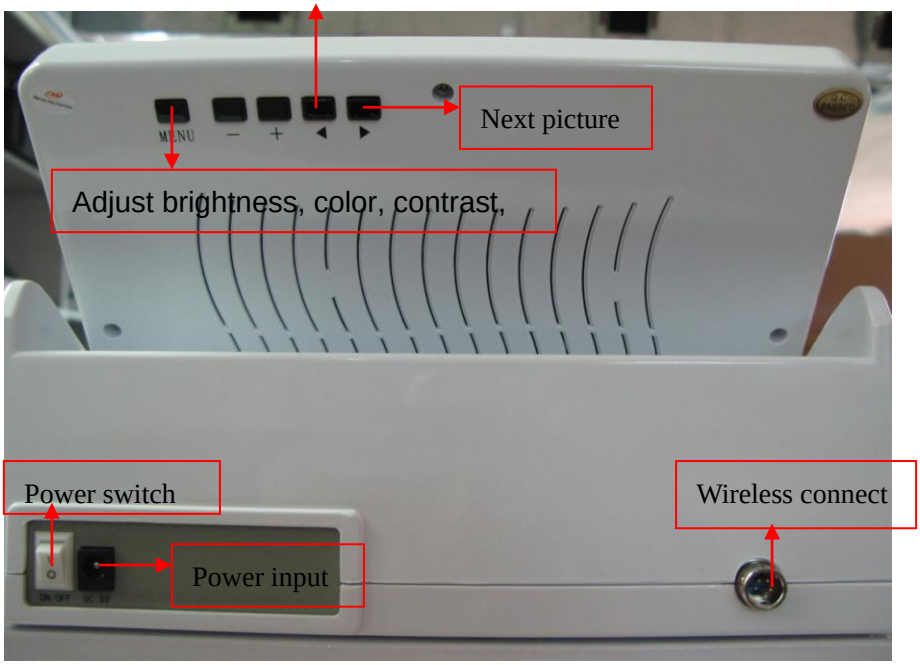
Front

Power indicator light

Connect to Intraoral camera

Rear

Previous picture



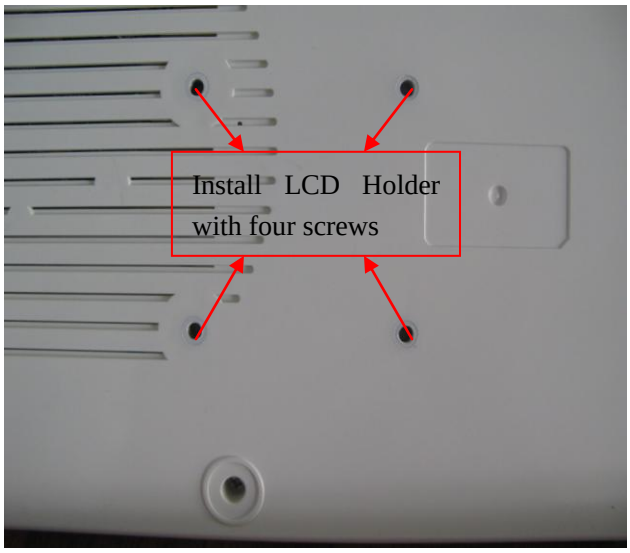
A. From left to right:

1. ON/OFF: power switch
2. DC-5V/3A: power input
3. Wireless connect

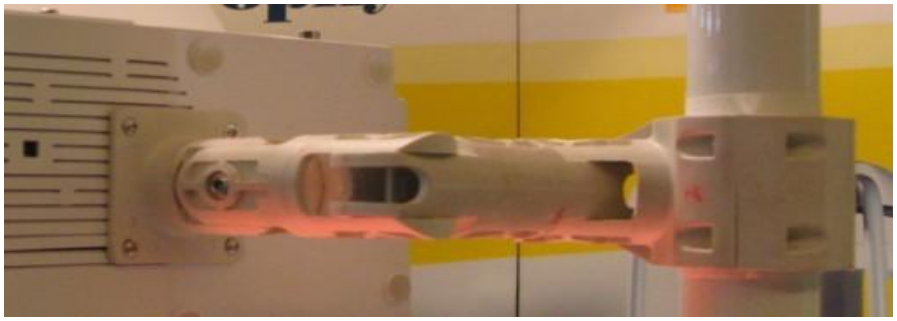
B.The functions of “Menu”:

Four buttons are special design for LCD monitor, customers can adjust LCD small monitor’s brightness, color, contrast, previous picture and next Pictures

Bottom:



1. Install in the dental unit.



Notice:

1. “P” means “PAL”, “N” means “NTSC, This is the TV system. Please change the Button according to your TV Systems between: “P” and “N”.

2. “W-L” means wireless. When you use wireless type, please change the button to “W-L”, “W” means wired. When you use wired type, please change to “W”

3.2 Intra oral camera’s operation

A. The right side

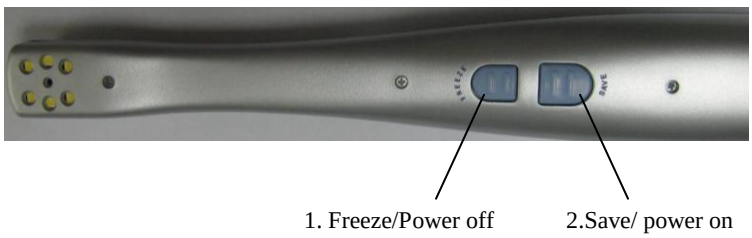
1. Press option 1 first time, the images will be freezed; press option 2 for long time, the camera will be power off.
2. Press option 2. Power on the camera, and after press Freeze button, the images can be saved in SD card.
3. Press option 3, can check the previous image
4. Press option 4, can check the next image
5. Delete the image
6. Insert the small LCD monitor into this hole.

2. Quick disconnect for portability

The Camera lens and the six LED light

B. Side

C. Back



1. Press option 1 first time, the images will be freezed; press option 2 for long time, the camera will

be power off.

2. Press option 2. Power on the camera, and after press Freeze button, the images can be saved in SD card.

Wired operation sketch map

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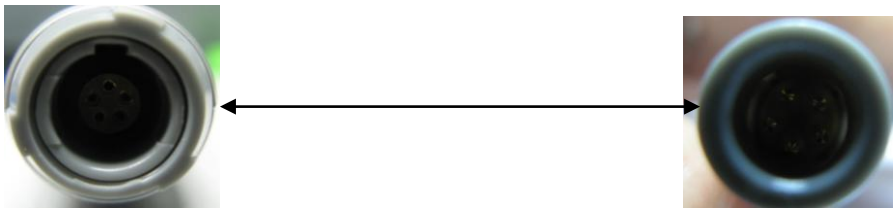
A. Let the cable connect with camera



B. Let the MINI SD card insert into the camera

Notice: Please let the back of SD card insert into the camera.

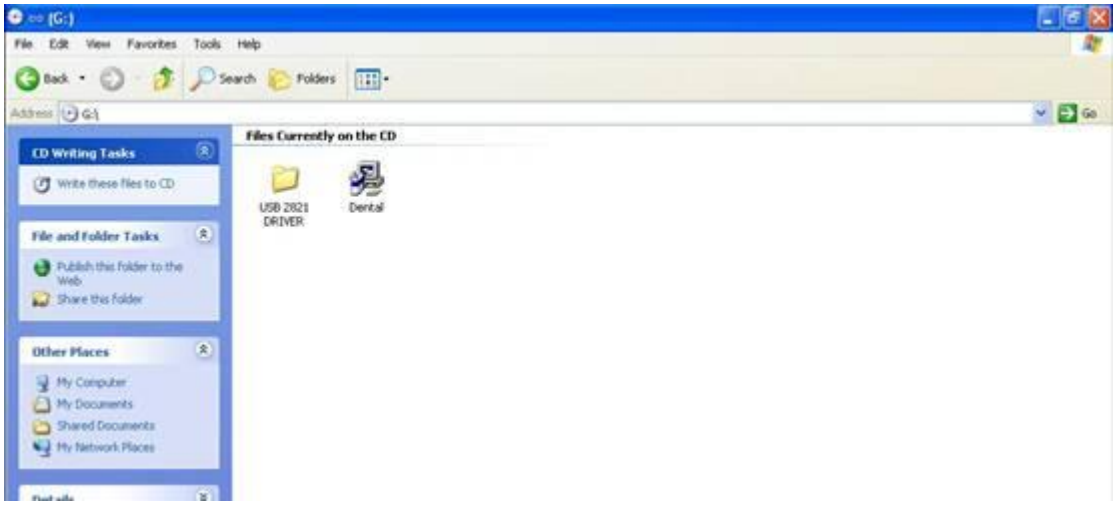
D. Upgrade to wireless system

Connect the intra oral camera with wireless transmitter, and insert the wireless receiver as below picture.

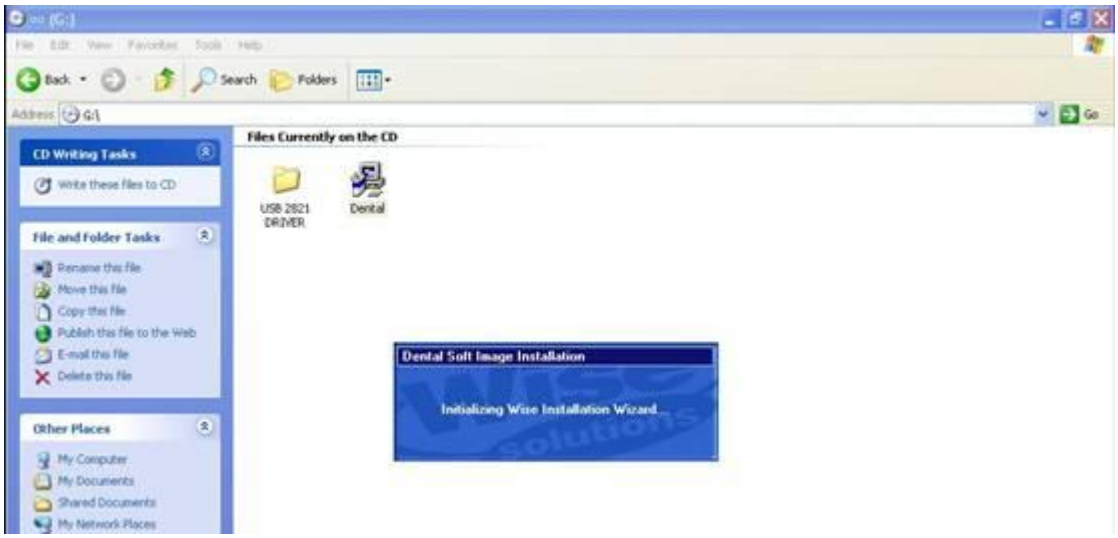
Same as wired camera's operation, press freeze button, and the camera will be power on, after capture the image, press save button, the images can be saved in the Micro SD card, by pressing the previous and next buttons, customer can check the images which have been captured by camera.

4. Manage Software Setup

A. Insert the disk. Setup should start automatically. If it doesn't, **click Start, Run**, and then enter **d:\setup\setup** at
The command line (if your CD drive is a
Letter other than "d", use that letter
instead)， please copy all the files from CD to your any hard disk.
Please click "Dental".

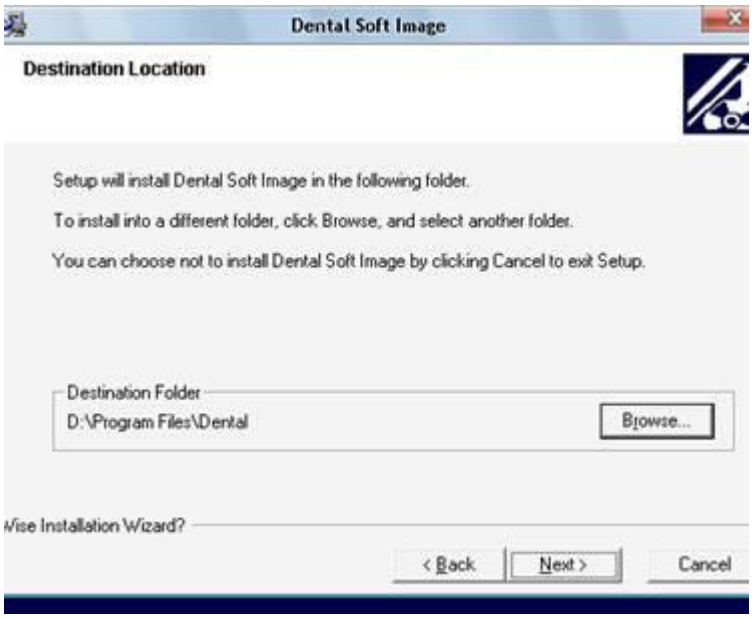


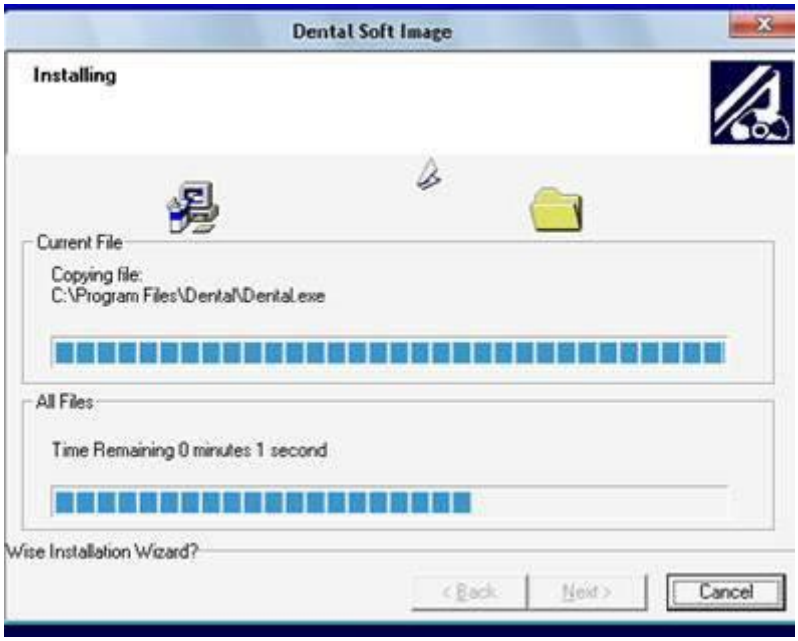
Then wait a while


Back
Search
Folders
Address
G:\
Go
CD Writing Tasks
Write these files to CD
File and Folder Tasks
Rename this file
Move this file
Copy this file
Publish this file to the Web
E-mail this file
Delete this file
Other Places
My Computer
My Documents
Shared Documents
My Network Places
Files Currently on the CD
USB 2821 DRIVER
Dental
Dental Soft Image Installation
Initializing Wise Installation Wizard...

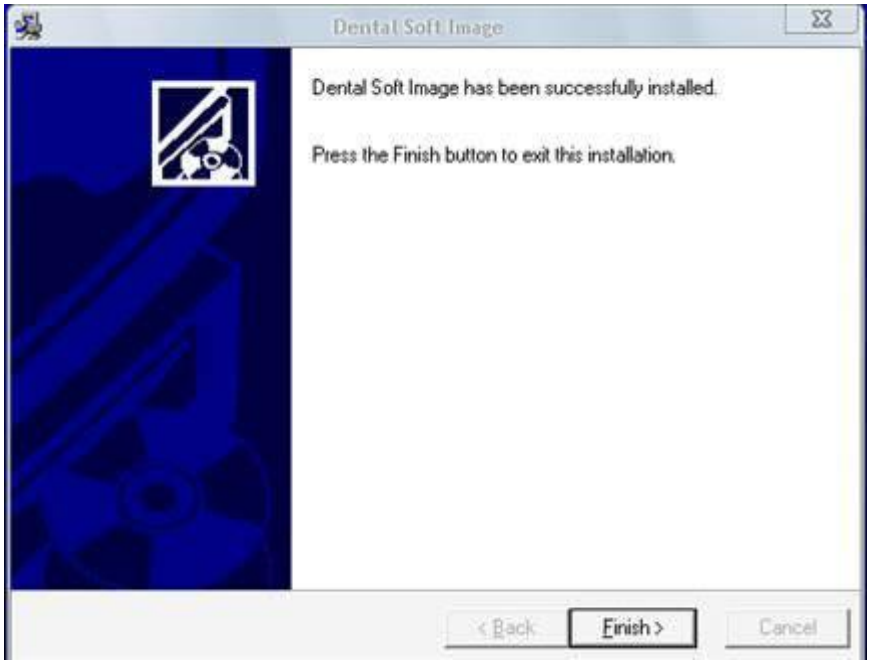
Dental USB Soft Image
Welcome to Dental USB Soft Image Setup program. This program will install Dental USB Soft Image on your computer.
It is strongly recommended that you exit all Windows programs before running this Setup Program.
Click Cancel to quit Setup and close any programs you have running. Click Next to continue with the Setup program.
WARNING: This program is protected by copyright law and international treaties.
Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.
Next >
Cancel

Click **Next**.





When the new video series is installed, click
Finish

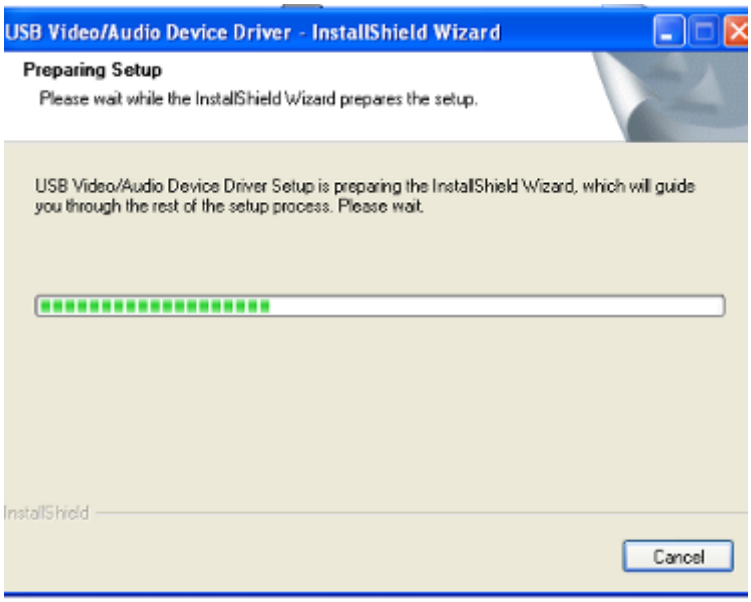


5. USB 2.0 device setup

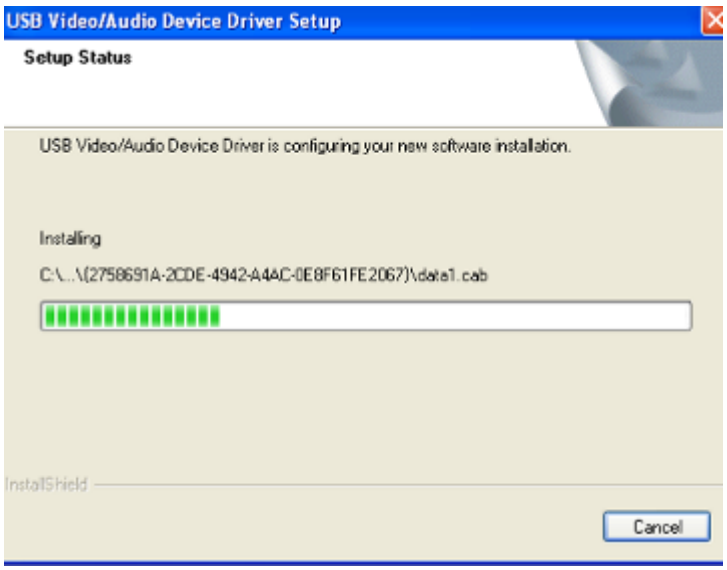
PLEASE NOTE: When you connect the camera to your computer, Windows will automatically detect this new device. Please copy all the files from CD to your any hard disk.

Step 1
Back to the disk. Double click file USB 2821 DRIVER, then click as below:

Then wait a while



Click Next.



Then Click Finish

Remark: customers can choose YES or No either, there is no influence at all.

Step 2

Connect the camera to your computer.
When you do, you will receive a
Momentary message saying that Windows
has detected new hardware

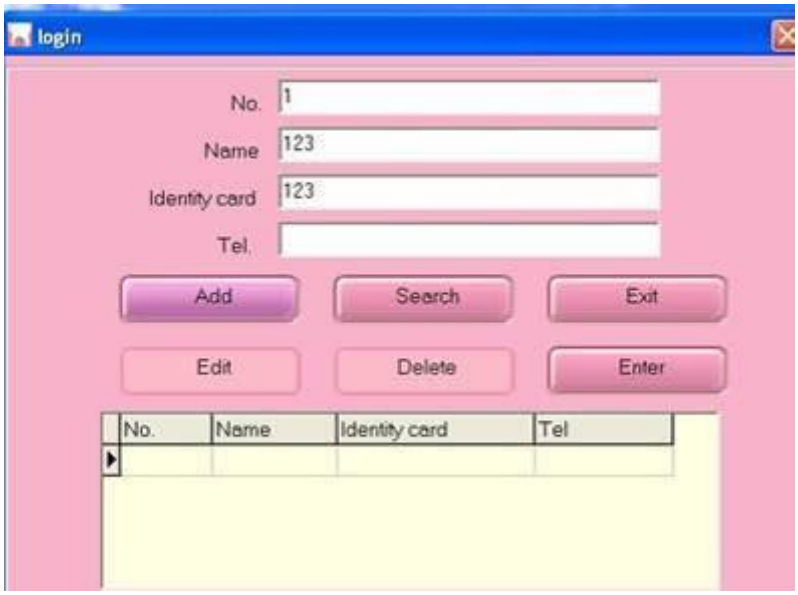
6. How to use application

After installation of Driver and USB device, please back to the desktop, click Dental Soft Image to begin the software

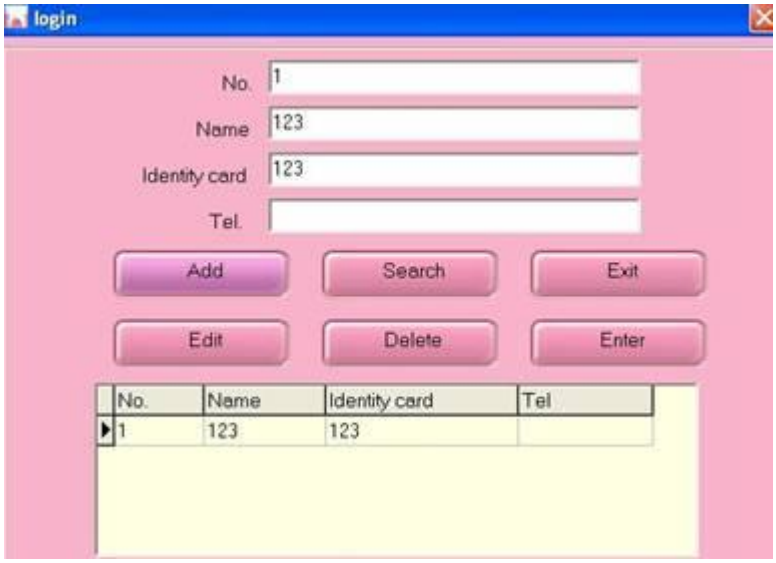
Double click Dental Soft Image . Select language

Click Enter, and then double click Dental Soft Image again

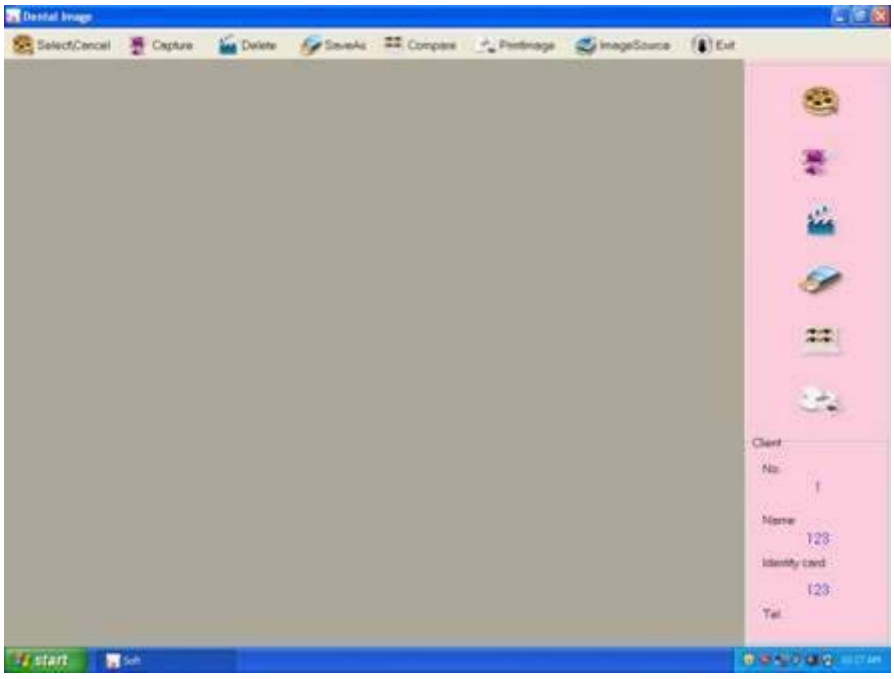
Use your mouse to click the middle picture then enter into the login interface.
As below picture, please write down No, Name, Identity card and TEL of your patients.



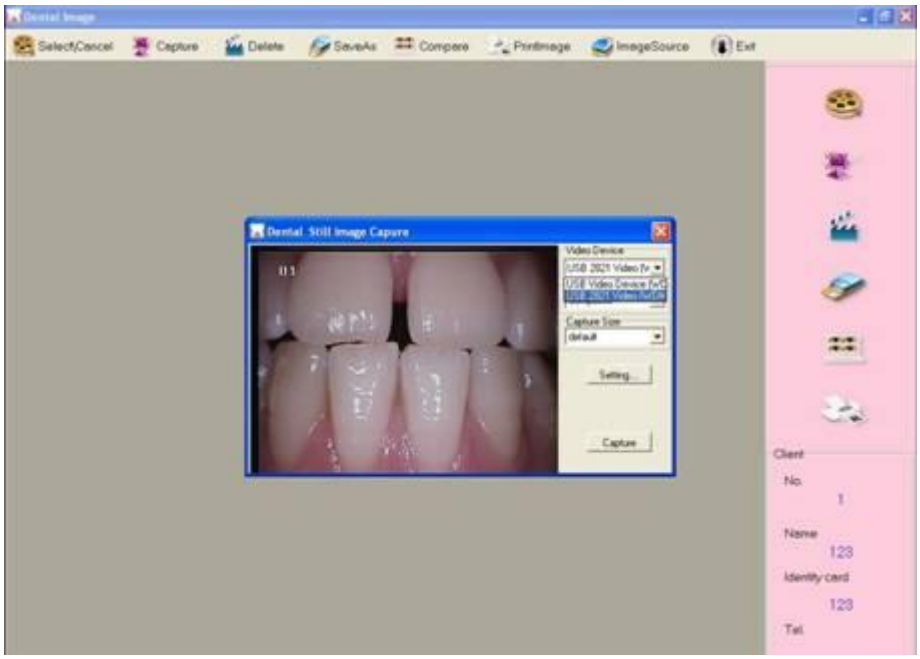
Then click Add



Click Enter in order to enter the Dental Software interface

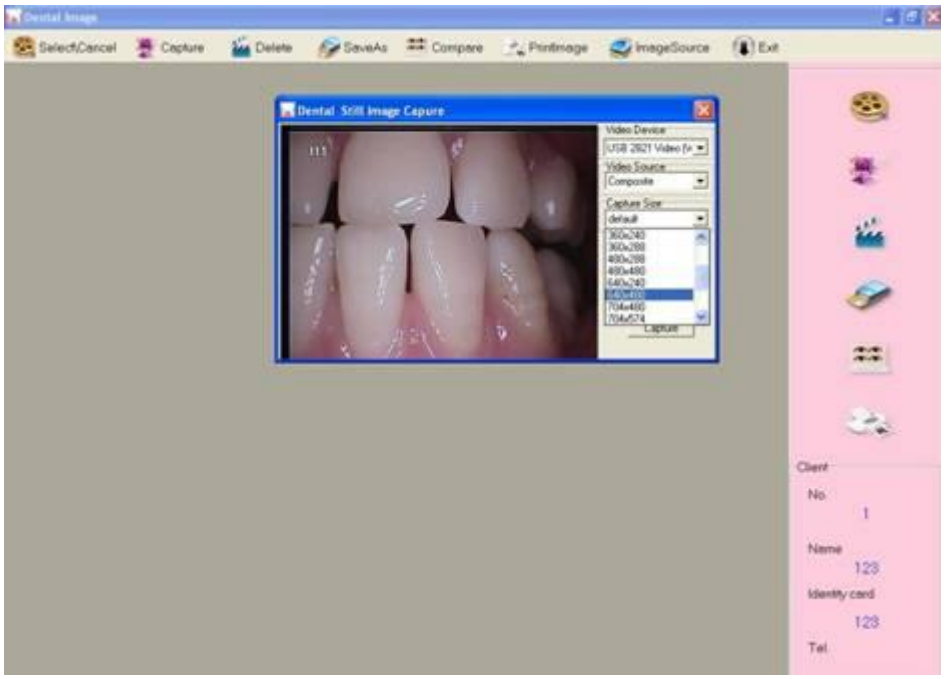


Click Capture to get the images you want.



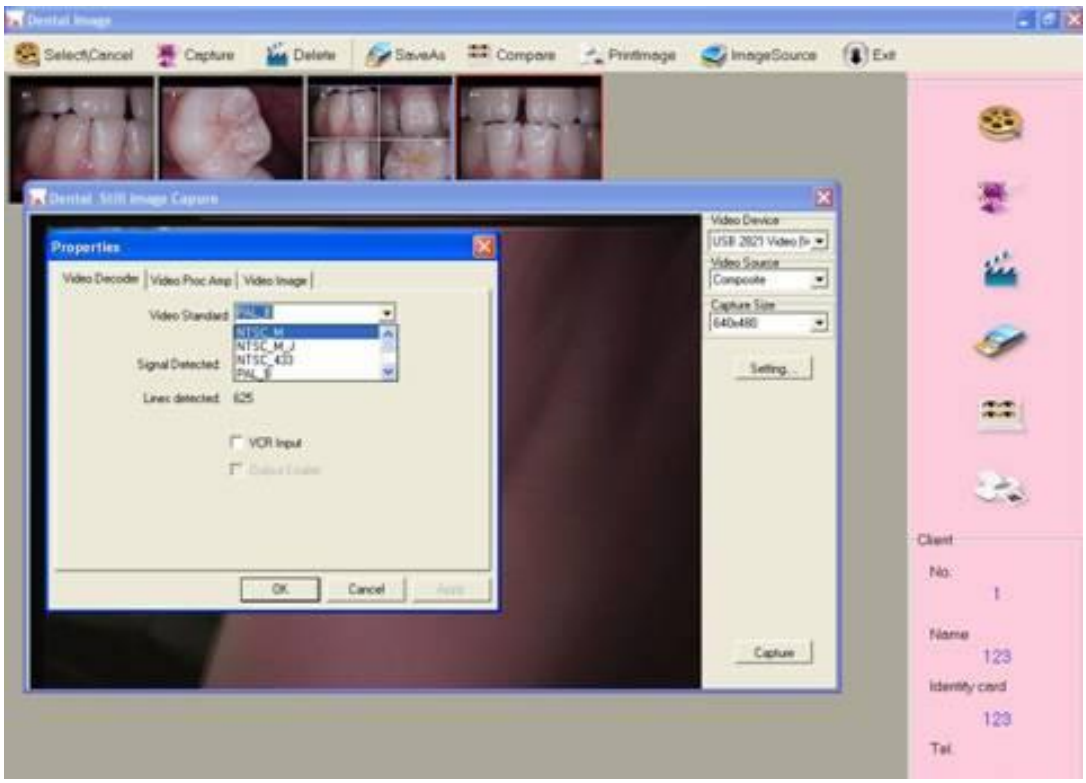
For the Capture Size, we suggest you to choose 640*480, because

It is a standard size for intra oral camera's image



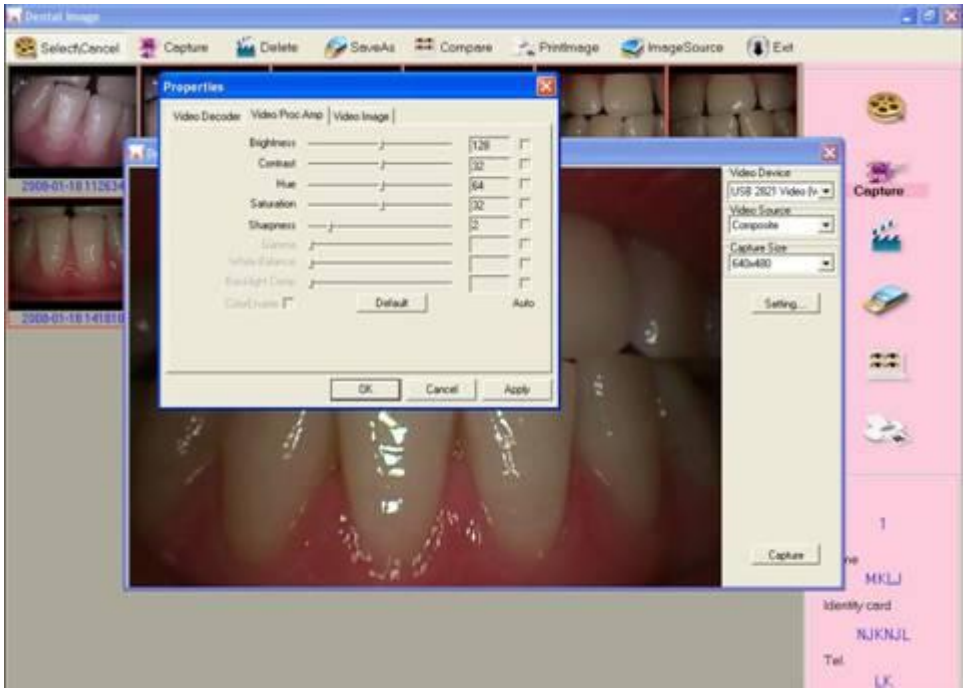
In the Dental Still Image Capture, you can choose Setting to edit

the images.

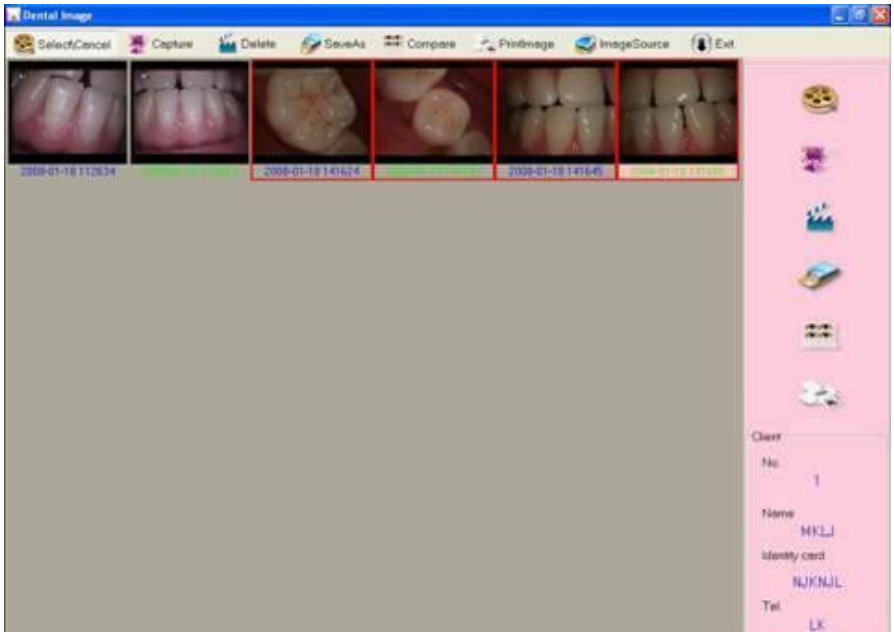


Please check your intra oral camera's video Standard, if it is PAL, please choose PAL_B to match.

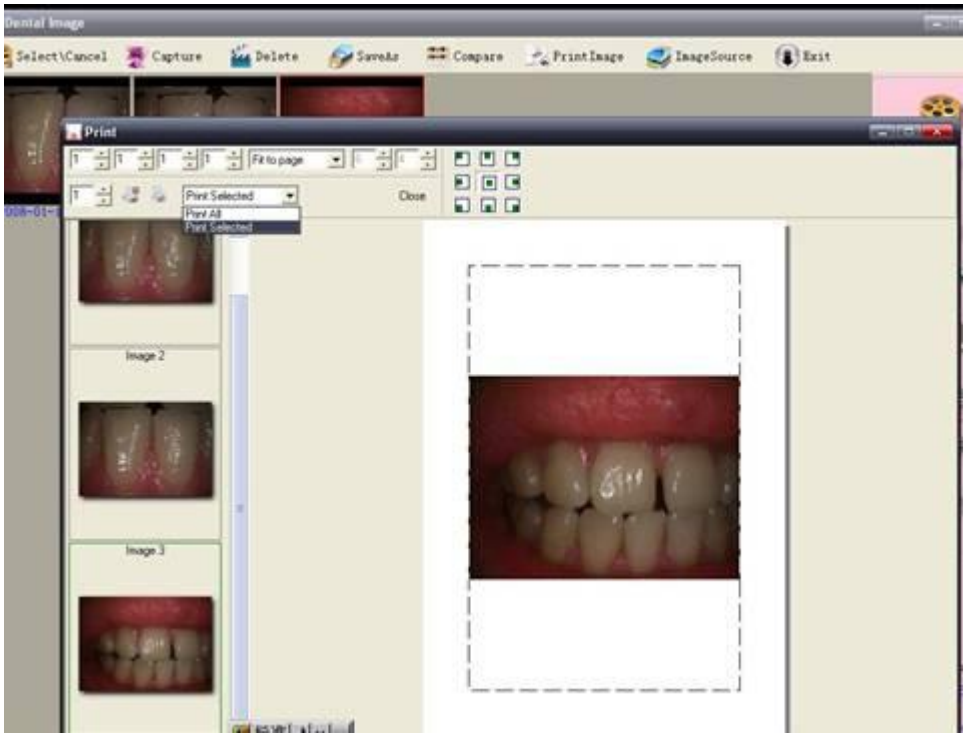
In the Video Proc Amp, you can update the brightness, contrast, hue and sharpness of images



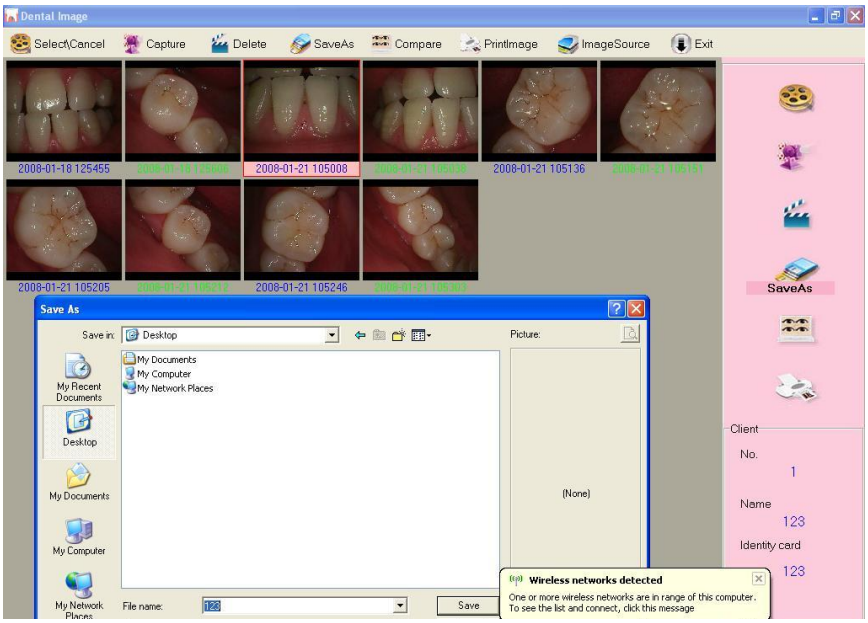
After Setting， please press Freeze of intra oral camera to capture the image, the images will be displayed on the interface of dental software.



Click Select/Cancel, you can edit any pictures on the screen, when the outline border becomes red, it means the images can be saved, compared
printed and deleted.

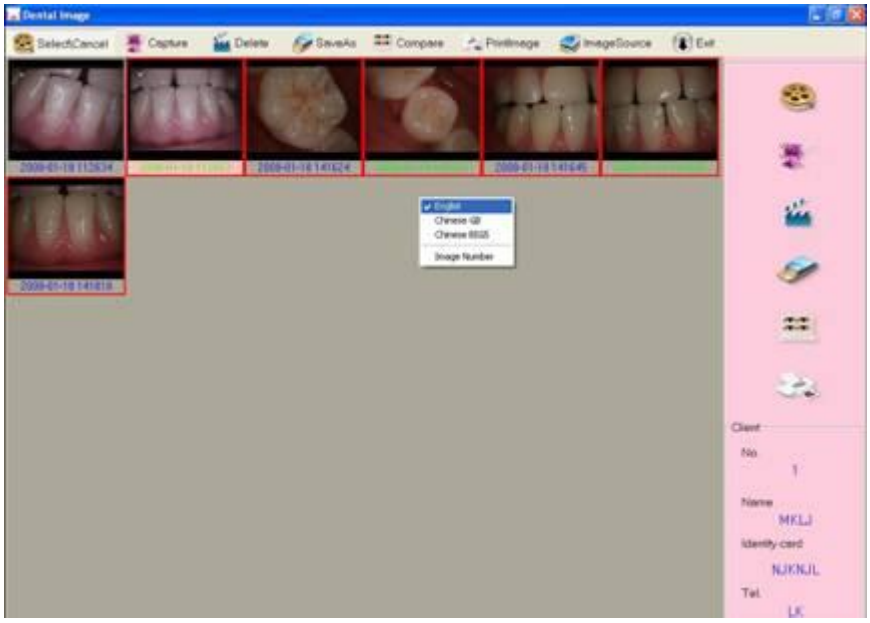


After selecting images, you can click “Save as” to save the images in any location of computer



If you want to compare some images, click “Compare” then the pictures as below

If you want to change the language of software, click right key of mouse as below


Dental Image
SelectCancel
Capture
Delete
SaveAs
Compare
PrintImage
ImageSource
Exit
Client
No
1
Name
MKLJ
Identity card
NJKNJL
Tel
LK

7. Trouble Shooting

If there are some troubles of products, Please see below special case firstly. If still can’t be solved, please contact your local dealer.

Item	Trouble states	Resolve methods
1	The products can't be startup when open (ON/OFF)switch)	1. Check the power socket if it is ok 2. Check the cable if it is connected
2	Computer or TV can't reveal images	1. Check the connection between products and computer or TV if it is correct 2. Check the Driver Setup if it is finished,
3	In the process of use, the image will be a little blurry	If you use it in the first time, it belongs to natural reaction. It will be better later on
4	Freezing images then appears dithering	It may be coursed by hand shakes while trying to capture image, when user familiar with product operation the phenomena will improved.
5	The images of computer or TV have spots	1. Check the screen if it has spot 2. Check the lens if it has spot 3. If the spot can't be cleaned, please contact the local dealer

8. Notice

Before each usage, check the outer surface of the products for any signs of physical damage or defect. The surface of the products should have a smooth finish, with no evidence of chipping or damage.

KNOWLEDGE OF WARNINGS AND CAUTIONS

Users must exercise every precaution to ensure personnel safety, and be familiar with the warnings and cautions presented throughout this manual and summarized below.

CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE THE COVER OF THE CONTROL MODULE OR POWER SUPPLY ADAPTER. THERE ARE NO USER-SERVICEABLE PARTS INSIDE. SERVICING SHOULD BE PERFORMED BY QUALIFIED DEALER SERVICE REPRESENTATIVES ONLY.CONNECTING ANY DEVICE TO THE SUPER CAMERA SYSTEM THAT DOES NOT MEET THE EQUIVALENT SAFETY REQUIREMENTS OF THE SYSTEM MAY REDUCE THE SAFETY EFFECTIVENESS OF THE SUPER CAMERA SYSTEM.

TURN OFF POWER AND UNPLUG THE SUPER CAMERA SYSTEM COMPONENTS BEFORE PERFORMING CLEANING PROCEDURES.

WARNING: TO PREVENT FIRE OR ELECTRICAL SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.
DO NOT SPRAY CLEANING LIQUIDS OR DISINFECTANTS DIRECTLY ON THE CAMERA HANDPIECE OR CONTROL MODULE. USE CARE NOT TO ALLOW LIQUIDS TO RUN INTO INTERNAL CIRCUITRY. DO NOT WIPE THE SURFACES USING BENZINE, THINNER, ETC. AS THIS MAY DEGRADE THE FINISH.