LED DENTAL LAMP WITH CAMERA

Model： ☐ CX249-19



USER MANUAL

Preface

Please kindly read this user manual before assembling and use this product, and keep well for repeated use. Please carefully follow the the instruction and do the maintenance correctly.Please mind the passage with “Warn” and “Attention”, read carefully, and follow strictly, avoid to do harm to user and the device.

Please contact our sales agent immediately for repair when you find something wrong with this device.

● Safety cautions

Before starting this device, please obey the basic safety precaution listed below, so as to keep away of the risk of damage to device, or harm to user,as well as causing fire, electric shock.

* Comply the instruction on the device and the manual, if you can not understand the instruction please ask our after-sales serve staff or sales agent for help.

* Please shut down the power supply before repairing or cleaning the device.

* No placing and hooking any heavy things on the device.

* Please only adjust the controls mentioned in the operating instructions. Adjusting other controls incorrectly may result in equipment damage.

This manual is limited to be used for CX249-19, Wireless High-Speed Transmission.

This manual is valid as of its publication date. The company reserves the right to modify the specifications or design of the equipment at any time without prior notice to the user.

⚠Warn：No using the power wire unsuitable to this device, otherwise, it must degrade its performance, even damage the device, cause fire or electric shock. Do not remove or mend the device without agreement from our agent or our technician, thus avoid the incident of electricity shock and damage to people or device.

⚠**Attention**：Warranty is not valid if these rules below are not followed.

(1) Follow the instruction correctly;

(2) Use the device according the instruction only;

(3) Power supply wire must be qualified with demand of the power of this dental lamp.

(4) This dental lamp should be fixed firmly;

(5) Any repair, modification, or revision to this Dental lamp should be performed by the engineer appointed by us.

(6) The components needed to be changed should be adopted the ones for ours, otherwise may reduce the performance and or destroy the device.

※(7) When installing the dental lamp, ensure that: the screws of the lamp connector and the arm connector are fully tightened to ensure that the dental lamp is securely installed before it can be put into normal use.

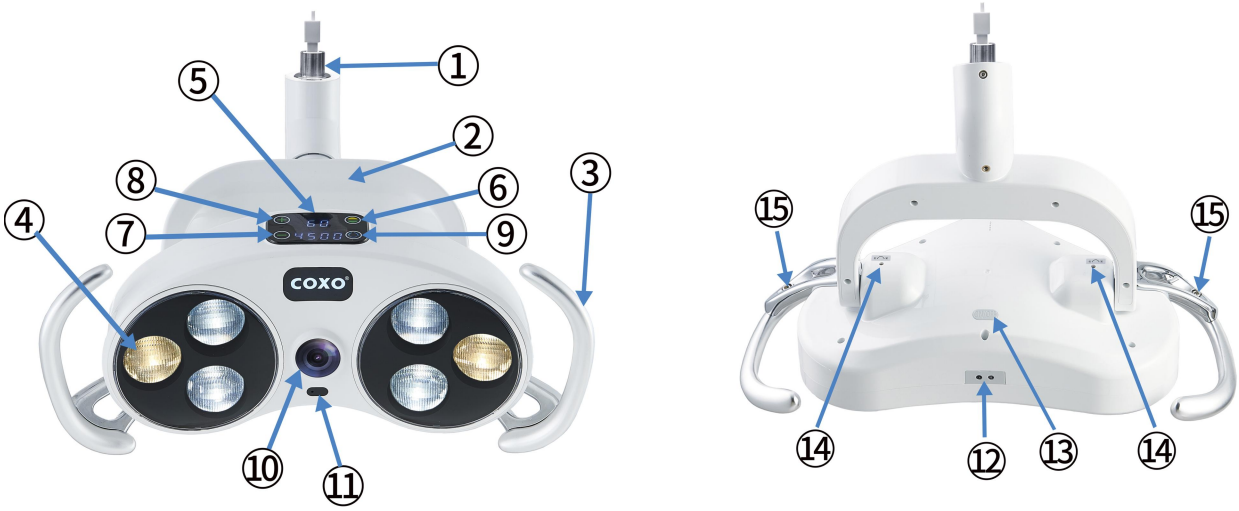
I. Description

1. Intended Use

The item is used for providing the light for the dental medical department, no checking function.

2. General Introduction

Products structure and components, as below picture:



1) . —Connector 2). — Bracket 3). —Handle 4）. —Lens 5). —Display Window

6). —One-click yellow light switch button

7). — - Button 8）.— + Button 9）.—Color temperature/Illumination 10）. —HD Camera

11）. —Remote control receiver/microphone

12）. —Sensor 13）. —On/Off button 14）. —Degree of tightness 15）. —Handle fixing screw

3. Environmental Requirement

Storage Transportation Environment:

Temperature: **－20℃－70℃**

Relative Humidity: **10%－90%**

Use Environment:

Temperature: **5℃**－45℃

Relative Humidity: **10%－90%**

Atmospheric Pressure:**500**－1060hpa

4. Specification:

Input Voltage : AC: 12-24V

Frequency: 50/60Hz

Power : 10 VA

Illumination: Adjustable from ≤8000 LUX to ≥20000 LUX, compliant with YY/T 1120 Standard

Color Temperature: 3500K to 5500K can be changed

Radiant heat ： ≦350W/㎡

Spot Size: 80x160mm (distance for 700mm)

Camera: HD **1080P, Wireless High-Speed Transmission**

Signal transmission:（**2.4G**）**Wireless**

Control Method : Induction Switch, 8 grade Illumination of touch draw slip can be adjusted;

One-click yellow light switch.

Ⅱ. Operational Approach:

1. The handle can adjust the light spot angle according to the users' requirements, as showed below picture:



2. Control Method:

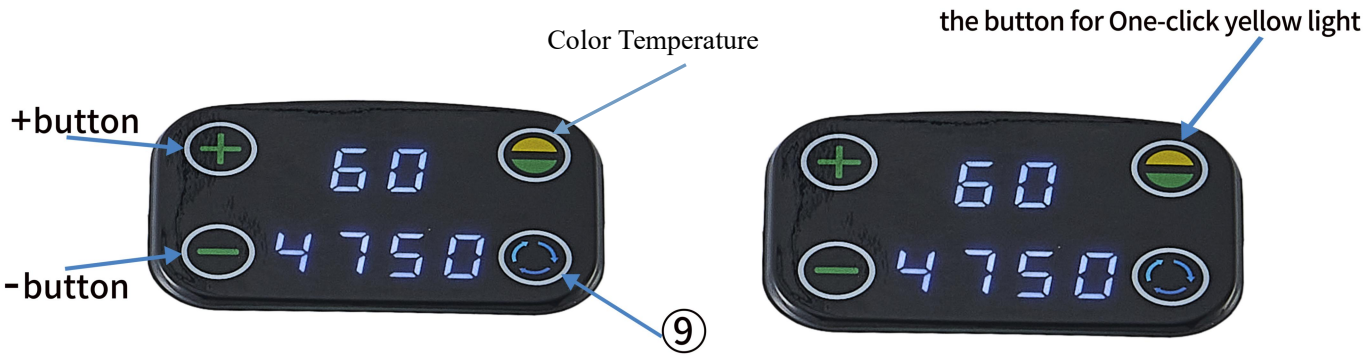
1）To open or close by induction:

To control the ON/OFF of the white light by crossing the sensor from 15-60mm,the buzzer will “range”once when close, and will “range” twice when open. 8 grade temperature can be adjusted.

2）On/off button control:

The light can be turned on or off by pressing the switch. When turned off, the buzzer will beep once, and when turned on, the buzzer will beep twice.

3）Color Temperature：Put your hands on the ⑨ Color Temperature/Illuminance switch indicated by the arrow on the left picture. When the color temperature display is flashing, you can adjust the color temperature using the - / + buttons. The color temperature can be adjusted in 8 levels from 3750K to 5500K. Press the one-key yellow light button indicated by the arrow in right picture, can press yellow light, displaying 3500K. As shown below:



4）Illumination control: Put your hands on the 9 Color Temperature/Illuminance switch indicated by the arrow on the picture ，When the illumination display is flashing, you can adjust the illumination using the - / + buttons. The illumination can be adjusted in 8 levels from≤8000 LUX to ≥20000 LUX. As shown below:

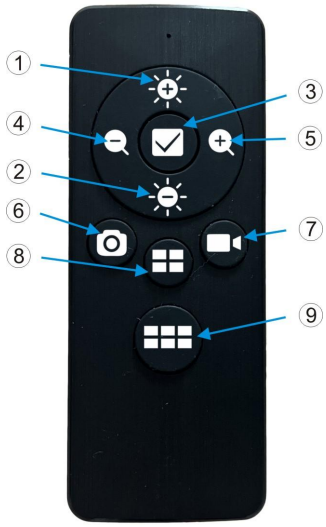


5）Record function：The distance between the camera and the oral cavity is 700mm-900mm, aimed at the oral cavity to capture images, which are then transmitted to the PC screen for display. As shown below:



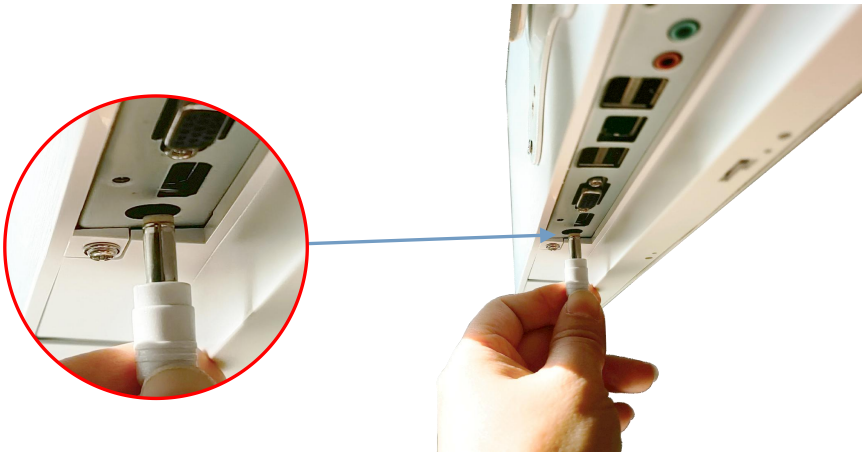
6）Remote control function：1.White balance+；2.White balance-；3.Button for match code；

4. Zoom in；**5.** Zoom out；**6. Snap**；**7. Capture**；**8. 2x2 Grid**；**9. 2x3 Grid;** As shown below:



Ⅲ. Operation instructions for the video recording system APP

1）Insert the PC power cord into the power jack (black) as shown in the figure below:



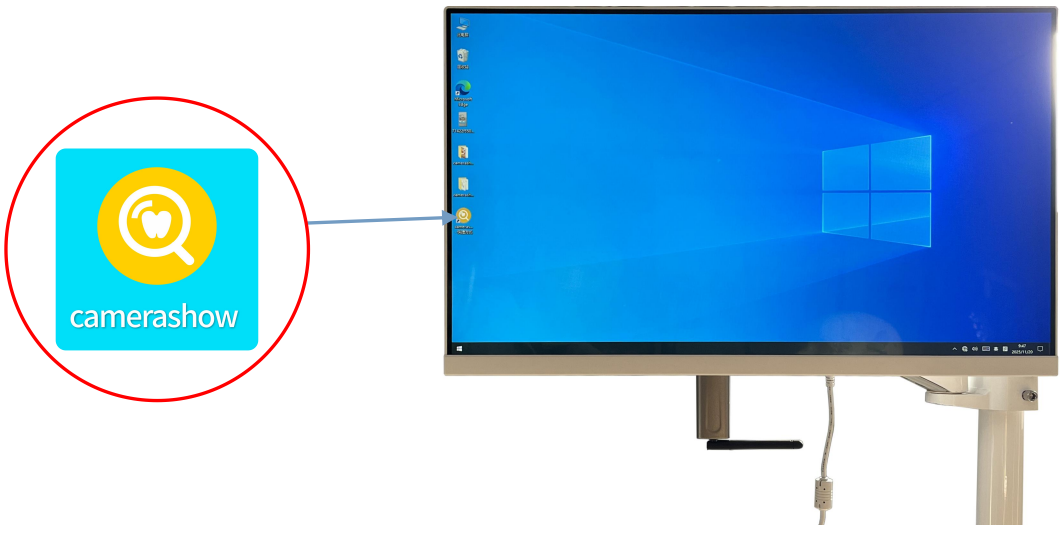
2）Press the arrow key in the image below to turn on the PC.



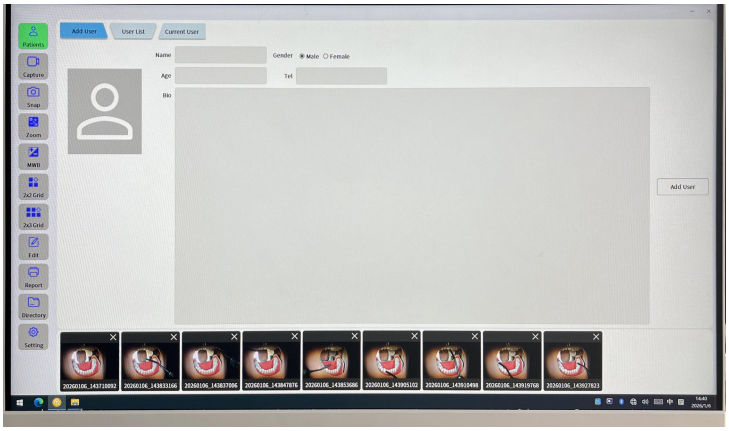
3）After turning on PC, Insert the wireless receiver, As shown below:



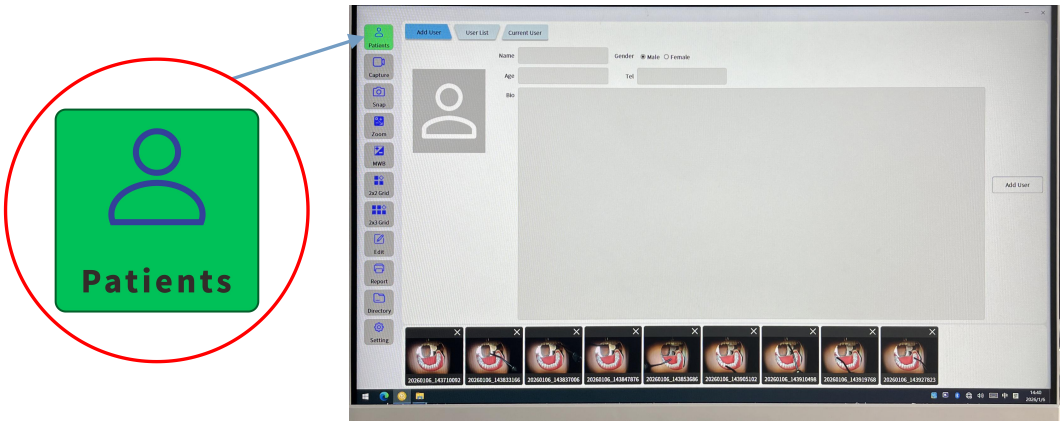
4）Double-click the APP, enter into the APP. As shown below:



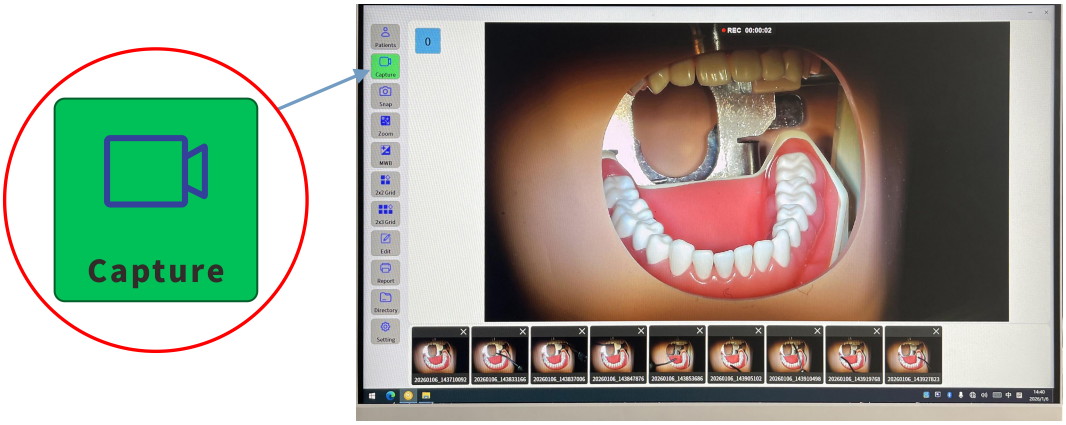
5）APP display menu: Patients,Capture, Snap, Zoom, WB, 2 ×2Grid, 2 ×3Grid, Edit, Printing report, Directory, Setting. As shown below:



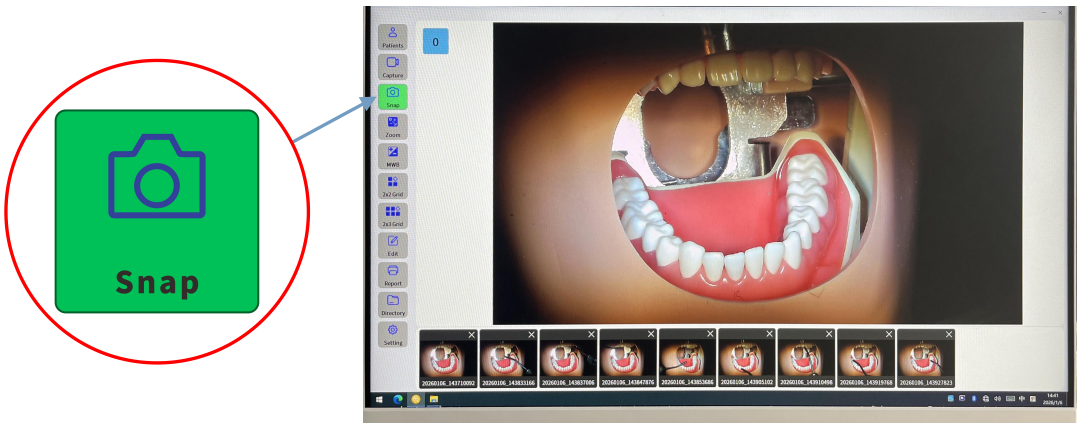
6） Click patients：Add patients' information to be entered into the customer management system, then create a file for doctors easily to search. As shown below:



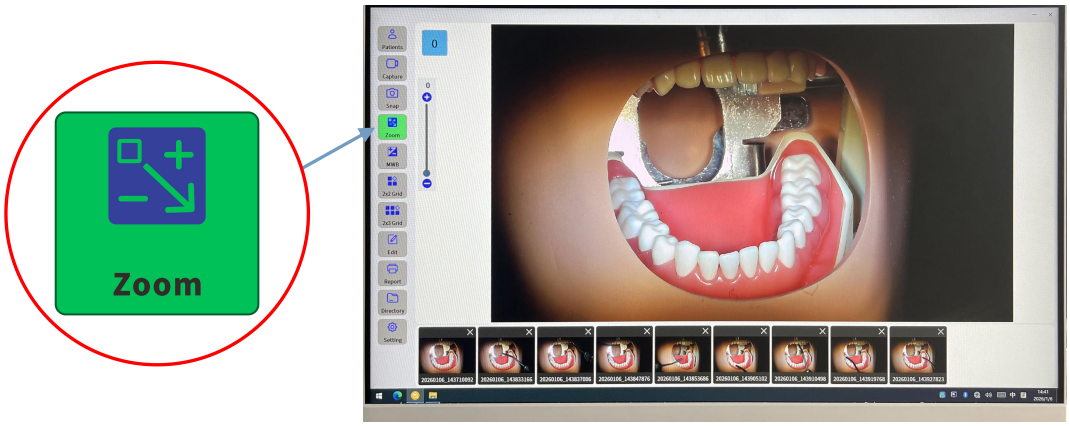
7）Capture：The doctor selects to record the video according to what he wants. Starting to video when red dot flashing, stopping when clicking twice. As showed below:



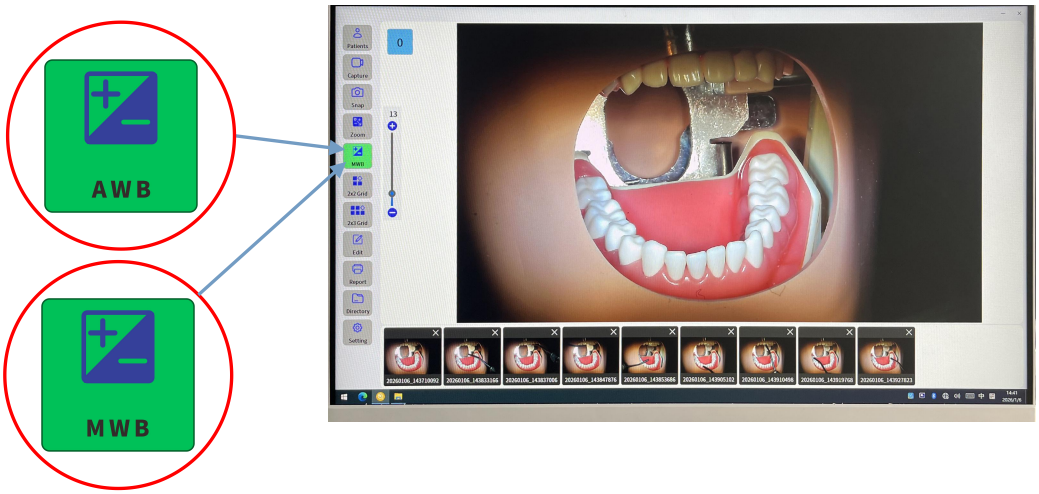
8）Snap：The doctor snaps the pictures according to what he wants to record, and then clicks the snap.As showed below picture：



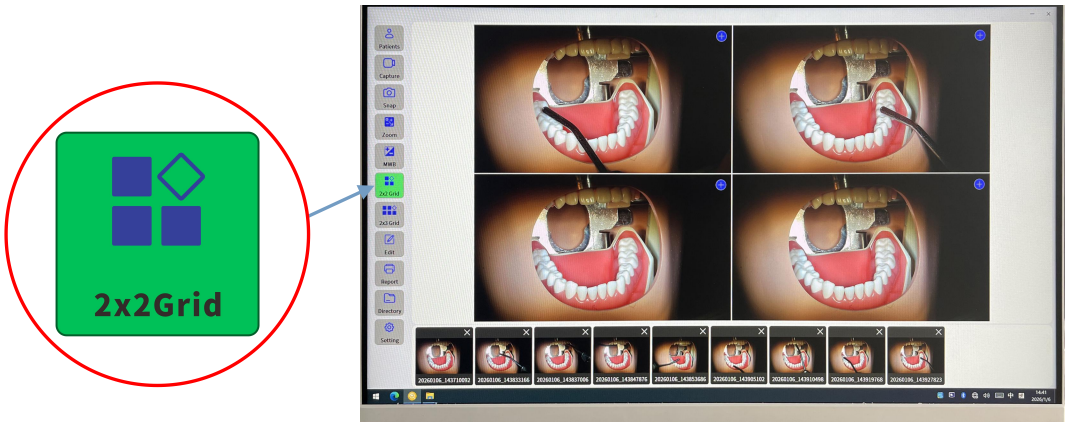
9) Zoom： The doctor zoom in and out the size of showed surgery picture according to own requirements, touch draw slip can be zoomed in and out after clicking. As showed below:



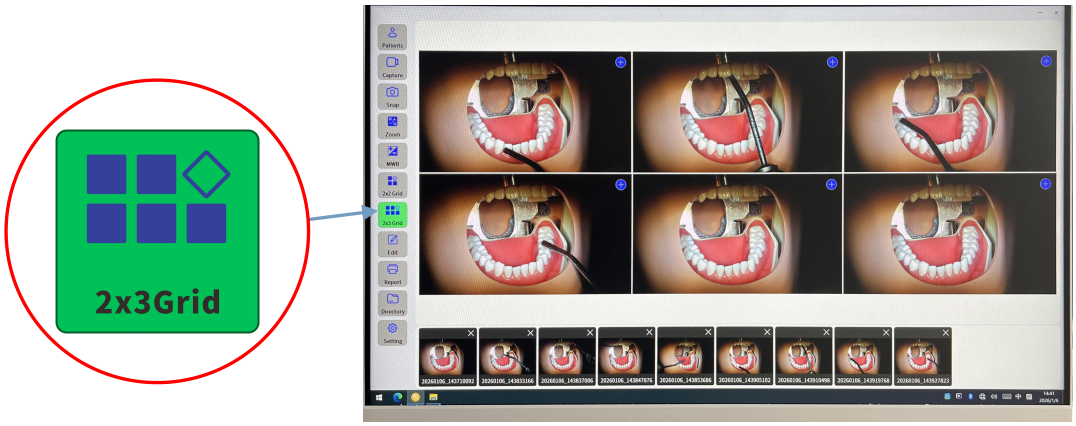
10） WB: Both manual and automatic models,The doctor adjusts skin color of the surgery according to own requirements, touch draw slip can be adjusted after clicking;adjust model of Wb by clicking icon, As showed below picture：



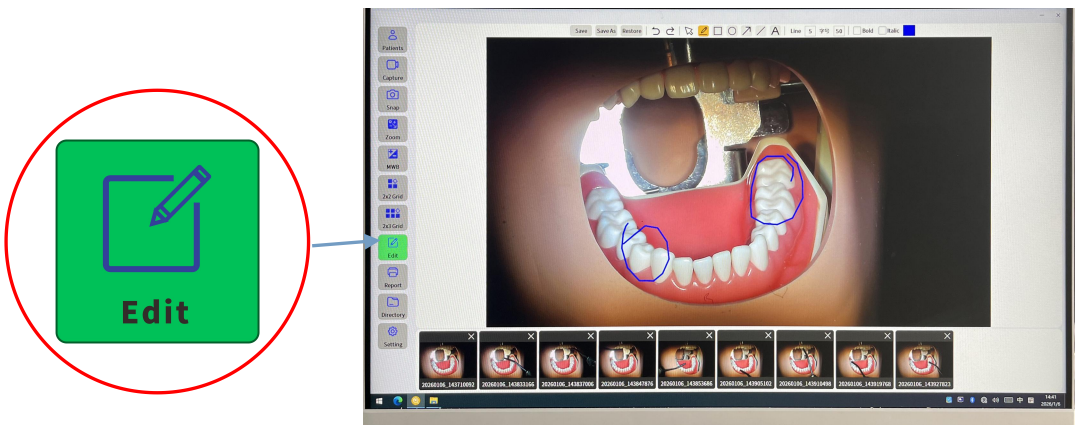
11）2 ×2Grid：The doctor clicks＋button of 2 ×2grid according to own requirements and then compares pictures as showed below picture：



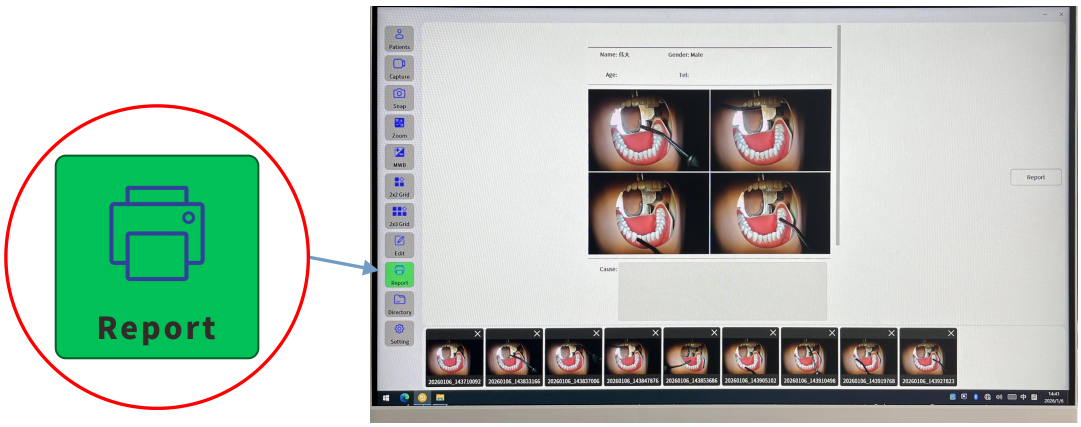
12）2 ×3Grid：The doctor pushes down＋button of 2 ×3grid according to own requirements and then compares pictures as showed below picture：



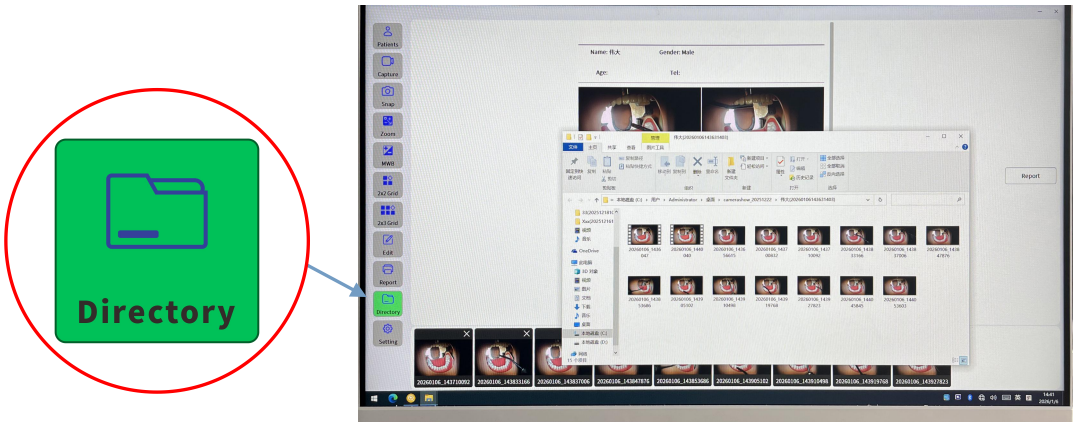
13）Edit：The doctor edits pictures according to own requirements as showed below picture：



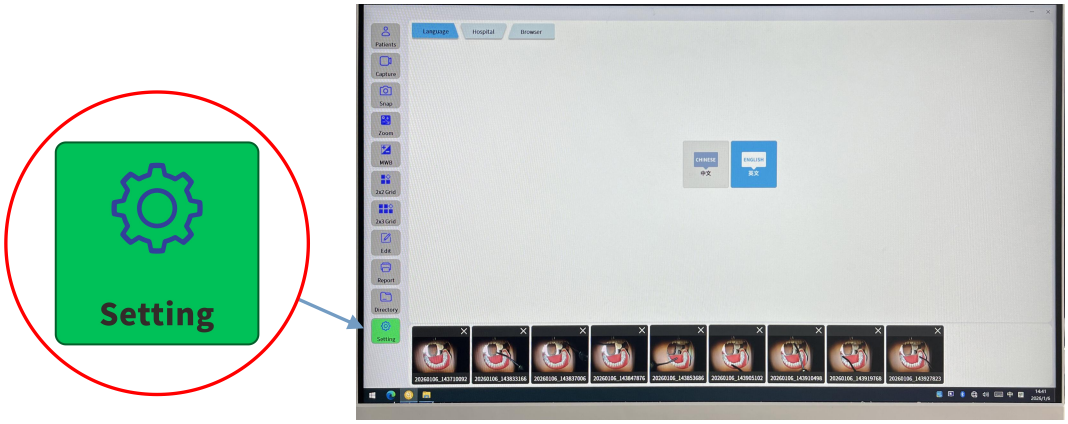
14）Printing report：Doctor putting pictures into report according to requirements，combining the doctor's conclusion into complete report and then print as showed below picture：



15）Directory：The location of storage for pictures and videos as showed below picture：



16） Setting：1：Language, Chinese and English can be chosen. 2：Hospital, completing information of hospital. 3：Storage, selecting ways of storage. As showed below picture：



Ⅳ. Washing and Sterilization

The transparent lens and camera of the LED dental lamp can be scrubbed and cleaned by the lens paper.

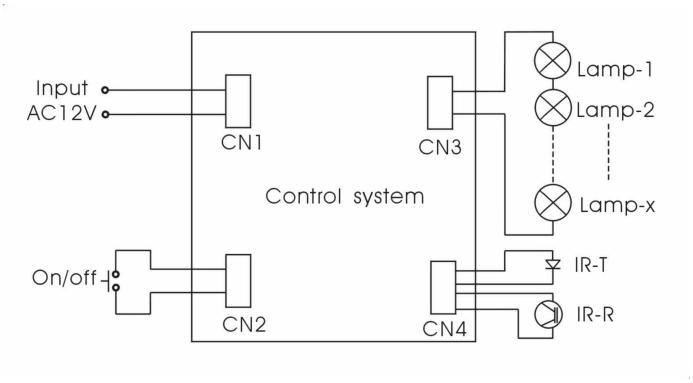
The shell and handle can be washed by neutral cleaning fluid, alcohol and disinfectant.

Ⅴ. Installing Instruction and Specifications:

1. **Installing Instruction**

To connect the plug of the led dental lamp and arm, tightening the led dental lamp and arm by M5 screw, then connect the arm to the AC:12-24V power of the dental chair.

2.**Schematic Circuit Diagram**



Ⅵ. Packing List:

（1）	LED dental lamp	1 PCS；	（2）	wireless receiver	1 PCS
（3）	Remote control	1 PCS；	（4）	User manual	1 PCS
（5）	Allen key	2 PCS；	（6）	Ornament	1 PCS

The final interpretation right belongs to our company