NOTE
All information will be deleted after SD card is formatted.

[Red Free Function]
DEC 100 allows digital red free images to be created directly from the information of the initial color image.
You can turn on red free function in the menu as below.

After turn on red free function, it will take more than 3 seconds to do image process after shooting. And there is a red free switch icon at the left-down corner of image. By press the icon to switch image into red free mode.
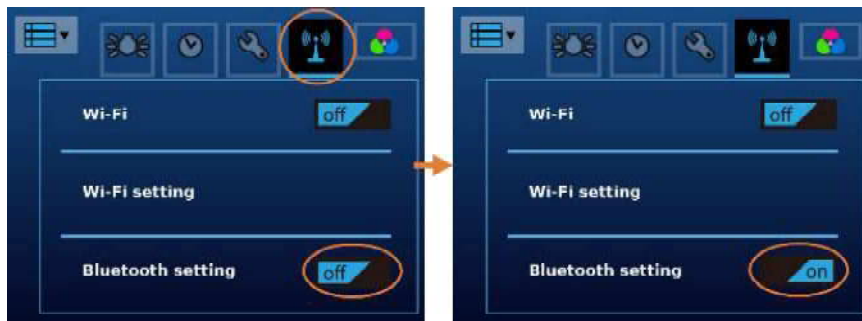

Wireless connection

[Wi-Fi/Bluetooth]
User can turn on/off the Wi-Fi/Bluetooth.

Note

Wi-Fi and Bluetooth function cannot be on at the same time.

[Wi-Fi setting – Direct Mode]

User can select "Direct mode" to connect DSC 300P with PC directly.

Note

Password shall be 8+ letters & numbers.

[Wi-Fi setting – AP Mode]

User can select "AP mode" to connect to internet through an AP.

[Bluetooth setting]

User can turn on the Bluetooth function and collect the data from specific vital sign devices.

When the Bluetooth is on, the vital sign collection icon will be shown on menu. Click it to enter the collection page.

C. DEA 200P (Digital Anterior Scope)

Enter the Setup model

Using the [Setup] menu

It is recommended that all setting items are set according to user's requirements for first-time use.

Bring up the [Setup] menu

Touch the photo icon and then touch the setup icon.

Exit the [Setup] menu

Once a setting adjustment is made, the new value affects the system immediately. Use the upper back button [<] or the OK button to exit the screen.

Settings

[Background Illumination]

User can turn on/off and adjust brightness of the background illumination by icon in live view mode. The brightness levels are between 0B to 5B.

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[Exposure time/Color]
User can adjust Exposure time/Color setting by touching the corresponding column
1. Exposure time from 1/30" to 1/120". (Default: 1/60")
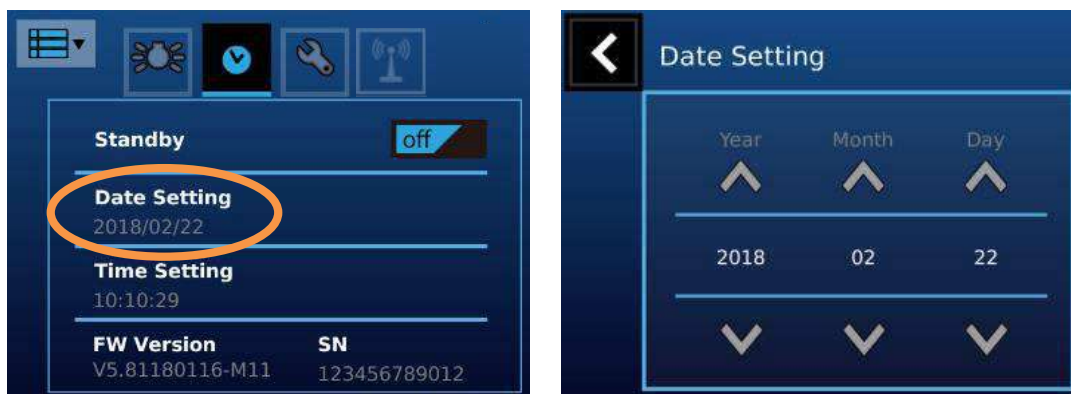2. Color adjusting range from 0 to 20. (Default: R:3, B:15)

[Standby]
User can set standby mode to be on or off. Once the mode is on, the LCD panel will be turned off if the system is idle for three minutes. Tap on the item to toggle the setting.

[Date Setting]
User can change the current date setting from the screen.

[Time Setting]
   User can change the current time setting from the screen.

[UVC]
   While connecting the device to a computer via USB cable, the product works as a USB storage device. If UVC mode is on, pictures can be shown both on the LCD panel of the product and the screen of the computer. To display image on the computer, please install webcam application prior to enabling UVC mode. A freeware webcam application (e.g., Horus UVC view, AMCap) is a software that can receive UVC signal on the computer. User can search for relevant information over the Internet.

Free UVC viewer is available in any search engine.

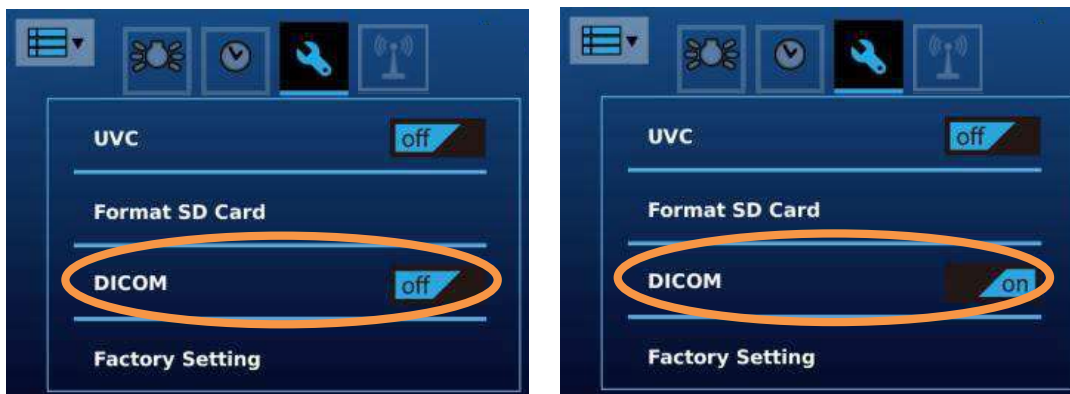*[Format SD Card]*
  User can format the SD card.

NOTE
All information will be deleted after SD card is formatted.

[DICOM]
  Export image with or without DICOM format.

[Factory Setting]
  User can recover the device to its factory settings.

Wireless connection

[Wi-Fi/Bluetooth]

User can turn on/off the Wi-Fi/Bluetooth.

Note

Wi-Fi and Bluetooth function cannot be on at the same time.

[Wi-Fi setting – Direct Mode]

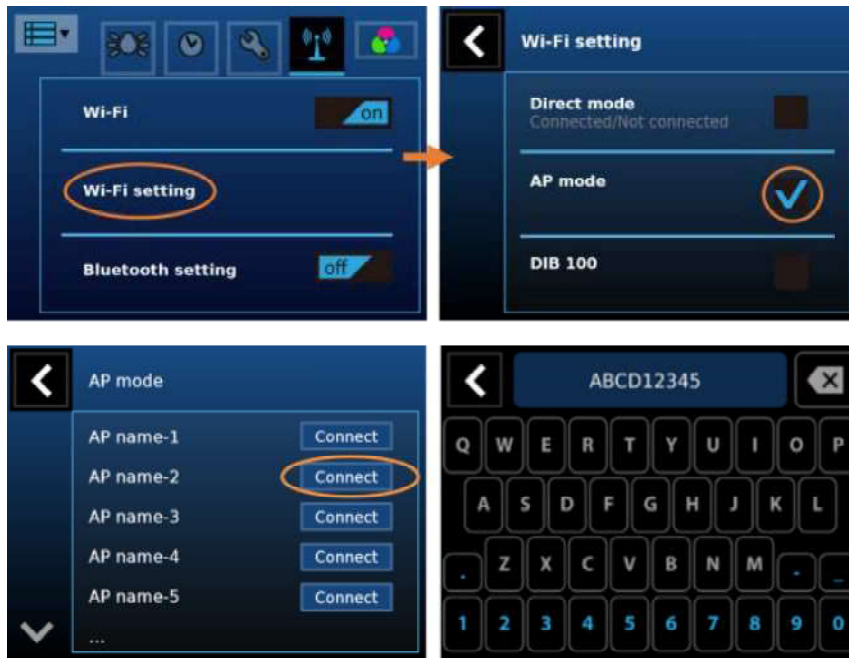User can select "Direct mode" to connect DSC 300P with PC directly.

Note

Password shall be 8+ letters & numbers.

[Wi-Fi setting – AP Mode]
User can select "AP mode" to connect to internet through an AP.

[Bluetooth setting]
User can turn on the Bluetooth function and collect the data from specific vital sign devices.

When the Bluetooth is on, the vital sign collection icon will be shown on menu. Click it to enter the collection page.

D. DDC 200 and DDC 100 (Digital Dermatoscope)

Choose the type of lens

On the first-time use, User have set DDC200 mode to be on or off in order to get the optimized settings in the [setup]. When using the DDC200 of the lens, the mode have to be on, and when using the DDC100 of the lens, the mode have to be off. Tap on the item to toggle the setting
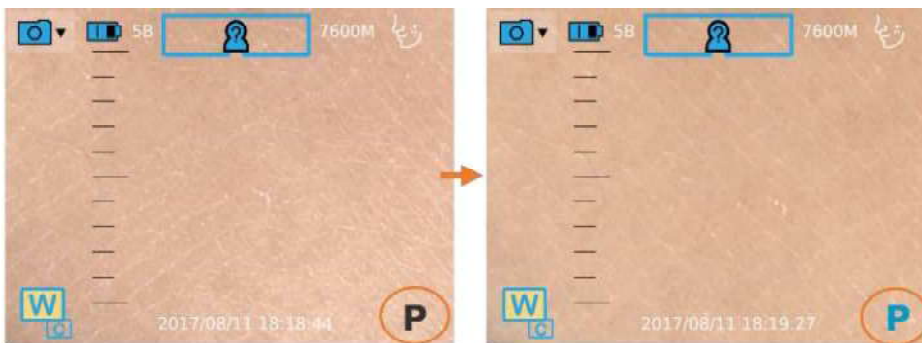

Polarization (DDC 100)

User can use the polarization switch on lens to change the light mode.

● P:Polarization
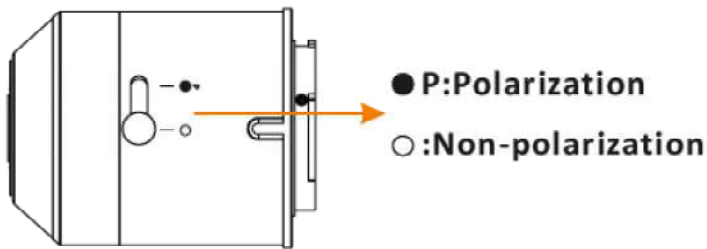
○ :Non-polarization

Polarization (DDC 200)

User can turn on the polarization function (**P**) to get polarized light, and view the dermis.

Color temperature adjustment (DDC 200)

In DDC200 mode, user can turn on the Color temperature function ( ) to get warm light or cold light in the lower right corner of the screen, and view the skin.

Enter the Setup model

Using the [Setup] menu

It is recommended that all setting items are set according to user's requirements for first-time use.

Bring up the [Setup] menu

Touch the photo icon and then touch the setup icon.

Exit the [Setup] menu

Once a setting adjustment is made, the new value affects the system immediately. Use the upper back button < or the OK button to exit the screen.

Settings

[Standby]

User can set standby mode to be on or off. Once the mode is on, the LCD panel will be turned off if the system is idle for three minutes. Tap on the item to toggle the setting.
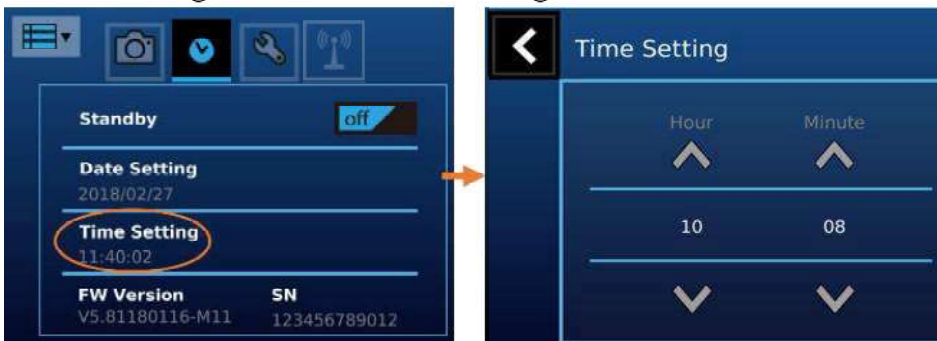

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[Date Setting]
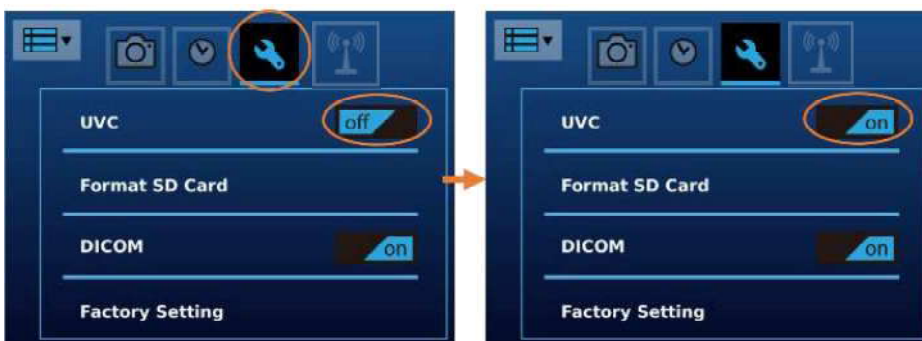 User can change the current date setting from the screen.

[Time Setting]
  User can change the current time setting from the screen.

[UVC]
While connecting the device to a computer via USB cable, the product works as a USB storage device. If UVC mode is on, pictures can be shown both on the LCD panel of the product and the screen of the computer. To display image on the computer, please install webcam application prior to enabling UVC mode. A freeware webcam application (e.g., Horus UVC view, AMCap) is a software that can receive UVC signal on the computer. User can search for relevant information over the Internet.
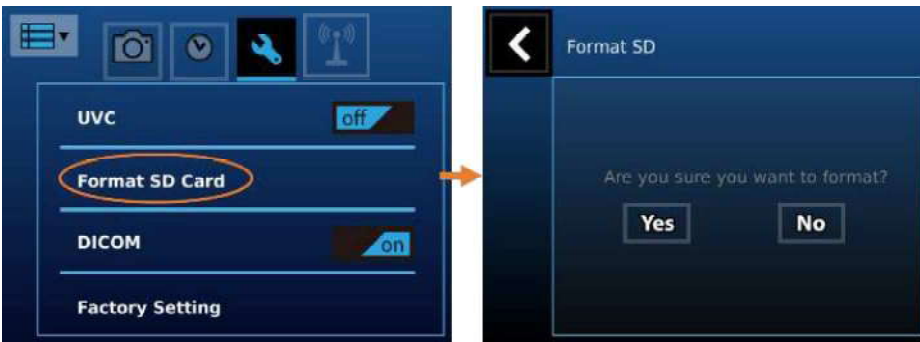

Free UVC viewer is available in any search engine.

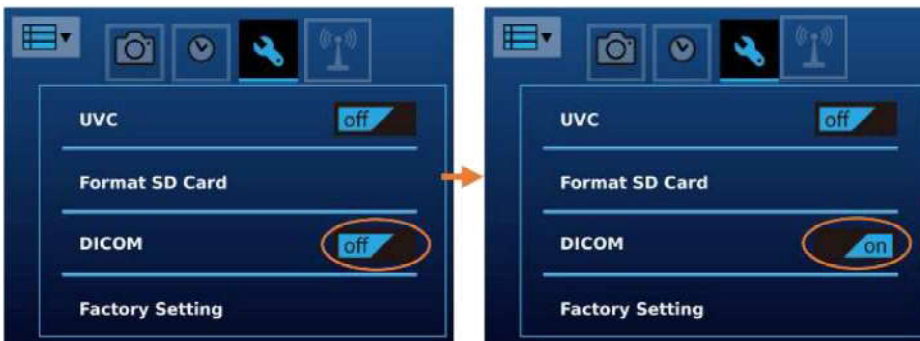*[Format SD card]*
  User can format the SD card.

NOTE
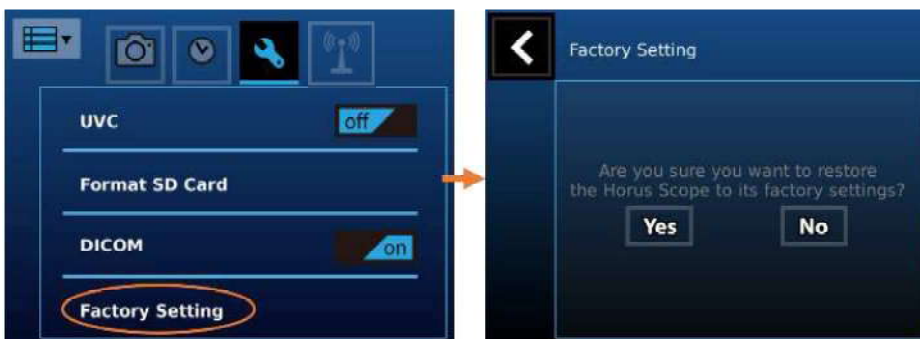**All information will be deleted after SD card is formatted.**

[DICOM]
  Export image with or without DICOM format.

[Factory Setting]
  User can recover the device to its factory settings.

Wireless connection

[Wi-Fi/Bluetooth]
User can turn on/off the Wi-Fi/Bluetooth.

Note
Wi-Fi and Bluetooth function cannot be on at the same time.

[Wi-Fi setting – Direct Mode]
User can select "Direct mode" to connect DSC 300P with PC directly.

Note
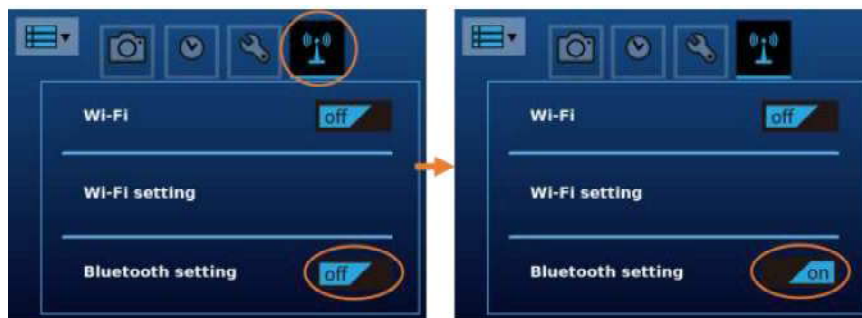Password shall be 8+ letters & numbers.

[Wi-Fi setting – AP Mode]
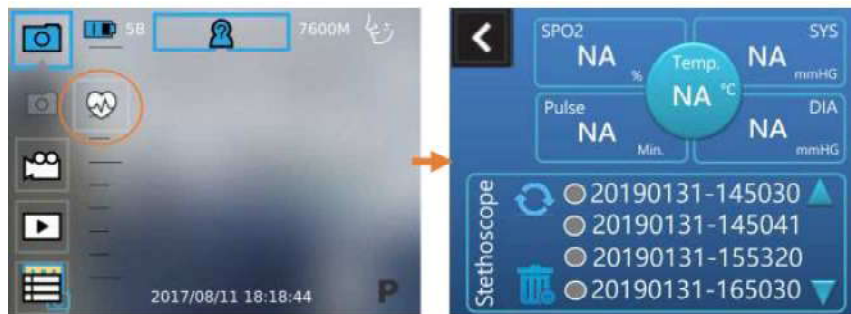User can select "AP mode" to connect to internet through an AP.

[Bluetooth setting]
User can turn on the Bluetooth function and collect the data from specific vital sign devices.

When the Bluetooth is on, the vital sign collection icon will be shown on menu. Click it to enter the collection page.
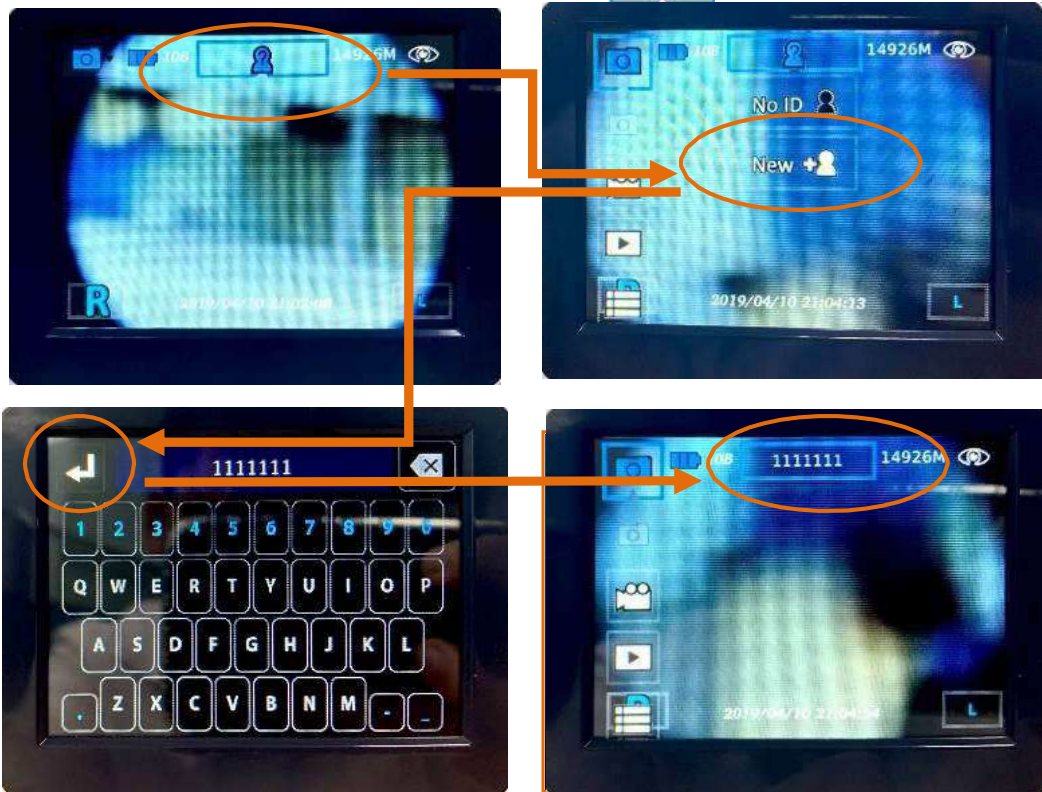
Entering the patient ID

Using patient ID as partial file name is supported in DSC 300P.

Create a new patient ID from scratch (DICOM off)
By gently pressing the OK button, the user always goes back to a shooting mode, either photo or video mode; from the top information icons, tap [icon] to start the process.

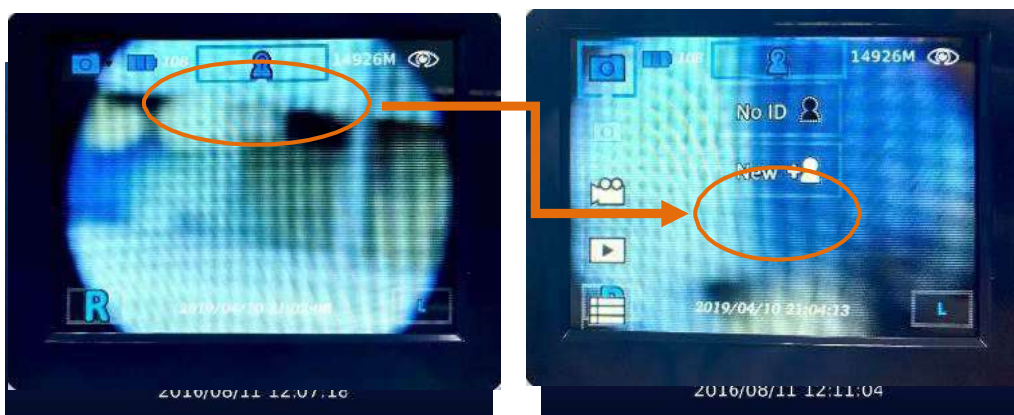**Create a new patient ID from scratch (DICOM on)**
By gently pressing the OK button, the user always goes back to a shooting mode, either photo or video mode; from the top information icons, tap [icon] to start the process.
NOTE
1. All of the information are necessary to finish this step.
2. Please note that the device could only record with 1 patient information.
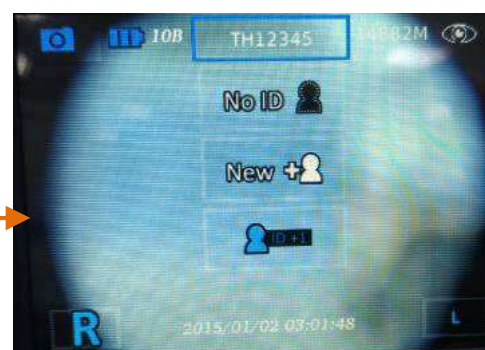
Create a new patient ID on an existing one

After a patient ID is set, the user can quickly create a new patient ID that is based on the existing ID plus 1 e.g., ABCDE12345 → ABCDE12346.
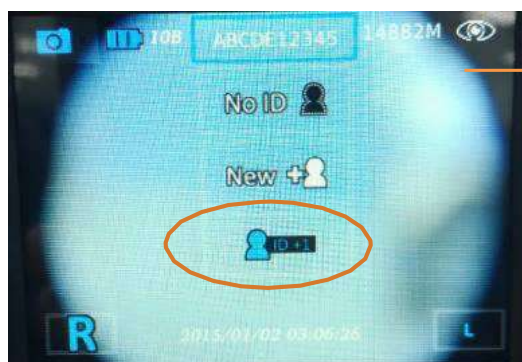
File naming rule

Product Name	Model Name	Picture Name without ID	Picture Name with ID
Otoscope	DOC 300S/ DOC 100S	OLHHMMSS.jpg ORHHMMSS.jpg	OLXXXXXHHMMSS.jpg ORXXXXXHHMMSS.jpg
Eye fundus camera	DEC 100/ EEC 100	ELHHMMSS.jpg ERHHMMSS.jpg	ELXXXXXHHMMSS.jpg ERXXXXXHHMMSS.jpg
Eye anterior camera	DEA 200P DEA 100/ILS100	ALHHMMSS.jpg ARHHMMSS.jpg	ALXXXXXHHMMSS.jpg ARXXXXXHHMMSS.jpg
Dermatoscope	DDC 200/ DDC 100	DMHHMMSS.jpg DPHHMMSS.jpg (DDC 200 only)	DMXXXXXHHMMSS.jpg DPXXXXXHHMMSS.jpg (DDC 200 only)
Speculum	DGC 100	GIHHMMSS.jpg	GIXXXXXHHMMSS.jpg
Endoscope Adapter	Adapter 300	ENHHMMSS.jpg	ENXXXXXHHMMSS.jpg

Meaning of each symbol:

Symbol	Refer to
OL	Left ear photo taken by the otoscope
OR	Right ear photo taken by the otoscope
EL	Left eye photo taken by the eye fundus camera
ER	Right eye photo taken by the eye fundus camera
AL	Left eye photo taken by the eye anterior camera
AR	Right eye photo taken by the eye anterior camera
DM	Skin photo taken by DDC 100, or epidermis photo taken by DDC 200
DP	Dermis photo taken by DDC 200
GI	Photo taken by DGC 100
EN	Photo taken by Adapter 300
HH	Hour
MM	Minute
SS	Second
XXXXX	Patient ID, up to 20 characters

Example:
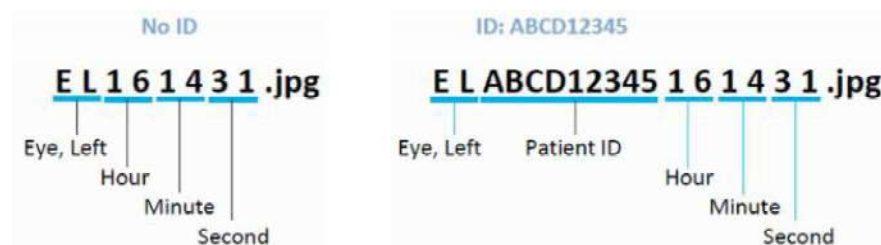
The image name is explained as follows:

EL: Left eye photo taken by the eye fundus camera;

hour: 16 , minute: 14, and second: 31.

If the given patient number is ABCD12345, the image mane would be written as ELABCD12345161431.jpg

Sequence of operations

Step 1: Turn on the power

Press the power button to turn on the control unit. Approximately one to two seconds later, the boot screen will appear on the LCD panel. After about 15 seconds, the information icons will appear on the top of the LCD panel.

Step 2: Make sure SD card is inserted

Once the SD card has been inserted, the user can start to take photographs in any shooting mode, either photo or video mode.
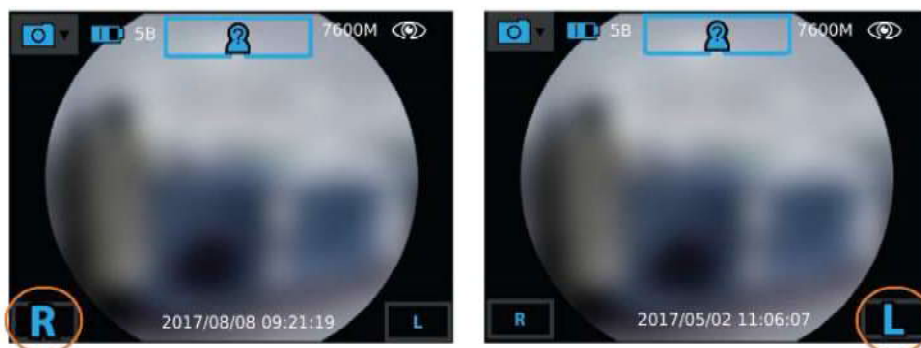
Step 3: Choose a shooting mode

Tap the photo or the video mode icon to enter a shooting mode.
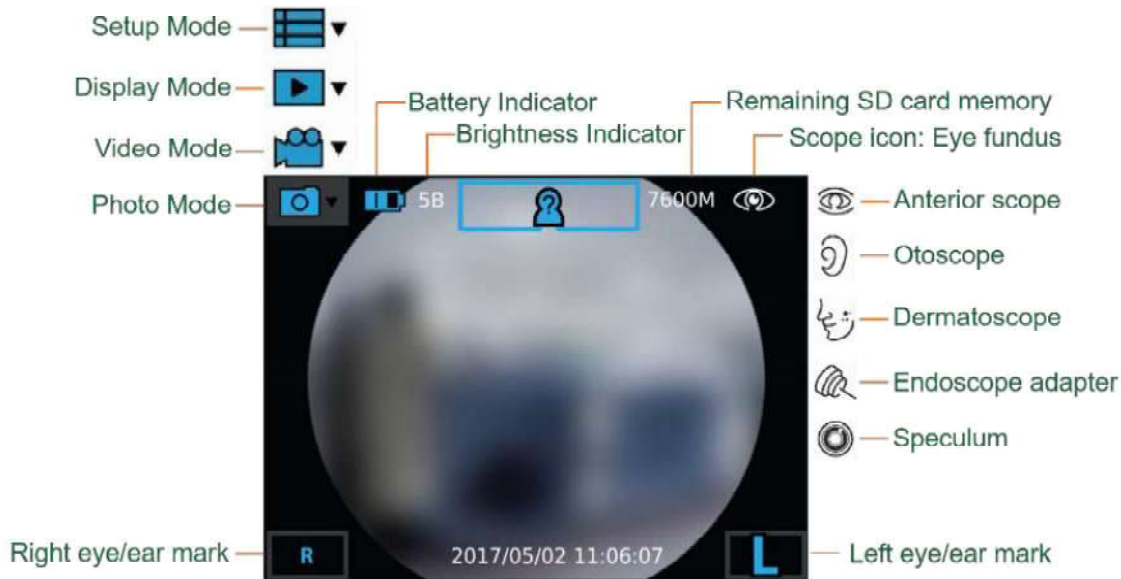
Step 4: Mark left /right (DOC 300S, DOC 100S, DEC 100, EEC 100, DEA 100(with ILS 100), DEA 200P)

By doing so, the user can tell whether a photo/video is left ear/eye or right ear/eye of examinee record from its file name.

Step 5: Aim and preview

Position the camera correctly and adjust to appropriate settings to get a clear preview. The image brightness can only be changed in photo mode. And using the focus wheel to adjust focus manually.

Step 6: Press the OK button to shoot.

Photo mode

The device's default setting is "photo mode." User can take a picture or video in "photo mode" or "video mode," respectively.

Photo mode:
Using focus wheel to adjust focus manually, and then press down OK button to take picture. When a picture is just taken, the screen shows the result image in auto review mode. To leave auto review, gently press the OK button.
To adjust the magnification in live view, user can press the zoom adjustment button, to change the magnification from 1 to 4 times.
To adjust the brightness of the image, user can press the brightness adjustment button of the control unit. The higher value you set, the brighter image you get. Image brightness adjustment range:

Reference brightness of capture light for DSC 300P series:

	Model name	Default value	Min. value	Max. value
Otoscope	DOC 300S DOC 100S	5	0	10
Eye fundus camera	DEC 100 EEC 100	10	0	15
Eye anterior camera	DEA 200P DEA 100/ILS 100	5 3	0 0	5 5
Dermatoscope	DDC 200 DDC 100	5	0	10
Speculum	DGC 100	0	0	12
Endoscope adapter	Adapter 300	5	0	5

Reference brightness table for DEC 100 and EEC 100:

Classification	Aiming light (IR)	Capturing light	Note
Light Skin Blond	1B	3-5B	
Light Skin Brunette	3B	8-10B	10B is default
Dark Skin	5B	12-14B	

NOTE
When taking pictures, please do not remove or insert the SD card and delete pictures, otherwise the system will be abnormal.