# *HD-01e High Definition Easy Scope*

## Easy SKIN & HAIR ANALYSER

## USER'S MANUAL

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Congratulations on your purchase of this High Definition UVC (USB Video Class) Easy Scope with multi-applications.

We believe the versatility and ease of use of this product will lead you to obtain more success in business deals and create more profit for you.

**HD-01e** is with high resolution images  for  **640x480 VGA mode**.  This High Definition UVC Easy Scope is guided cool light surrounding the lens and automatically provides the best illumination to enable you to obtain the perfect optimum viewing angle and color of the target object on the color monitor.

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**\* The unique feature of HD-01e-----**
  *UVC (USB Video Class) camera, plug & play,*
   *no USB Driver needed.*

**We offer 2 image programs for free gifts for facilitating you to make: 1 / 2 / 4 frames freeze function or before / after comparison & image store.**

# 1. ACCESSORIES

## 1-1  Standard accessories:

| ITEM | DESCRIPTION |
|------|-------------|
| 1 | HD-01e High definition  UVC (USB Video Class) Easy Scope (Handy probe type)                    **\* 640x480 VGA mode** |
| 2 | EVA Probe stand |
| 3 | USB cable (extending from handy probe, USB plug & play) |
| 4 | **2 image programs for free:**<br>a. "My Capture Pro. 1/2/4" --- 1 / 2 / 4 frames freeze & store<br>b. "HD-01 Capture" --- image capture & store, before / after comparison |
| 5 | User's manual |

## 1-2  Optional accessories:

| ITEM | DESCRIPTION |
|------|-------------|
| 1 | **HD-1X ADJ.** :**Lens 1x focus adjustable**<br>    (for full face/body, half body, partial  face) |
| 2 | **HD-50** : **Lens 50x** (for skin inspection) |
| 3 | **HD-50RN** : **Lens 50x polarized** (for surface/deeper layer skin check) |
| 4 | **HD-200** : **Lens 200x** (for hair, scalp inspection) |
| 5 | **HD-650** : **Lens 650x** (for hair cuticle inspection) |
| 6 | **HD-Iris** : **Iridology Lens** (for iridology analysis) |
| 7 | **HD-320** : **Microcirculation lens** |
| 8 | **HD-50RN(UV):  50x UV lighting polarized lens** (for acne inspection) |
| 9 | **BX002A** : Carrying case |
| 10 | **HD-MA software ---** for skin/ hair / iris image store (left/right 6 images each side), before / after comparison & customer management system |
| 11 | **HD-Pro Capture software  ---** for history / skin / hair / microcirculation / iris database comparison & customer management system) |
| 12 | **HD-Pro Video Master software** --- for skin / hair / acne / microcirculation image store (left/right 6 images each side) / video recording, comparison & customer management system) |

# 2. SYSTEM DIAGRAM



USB cable, to computer



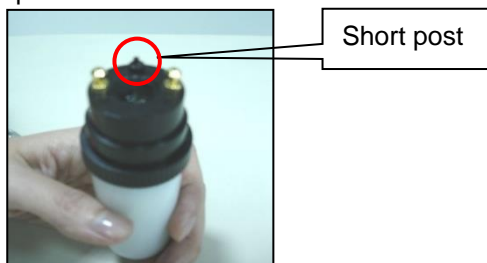Freeze button

Probe stand
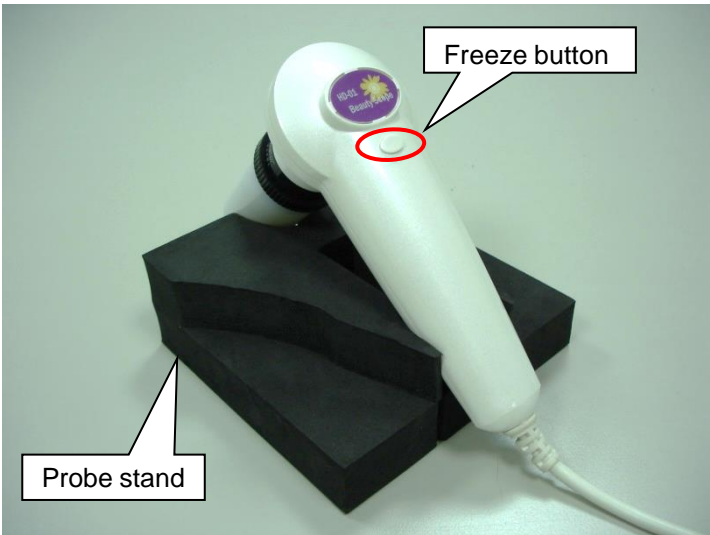
# 3. ATTACHING LENS TO HANDY PROBE
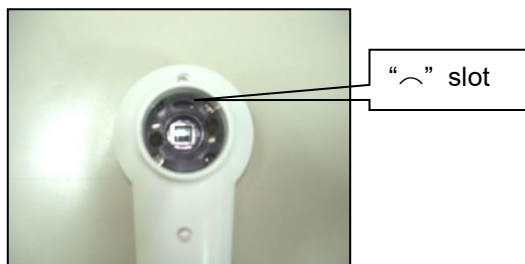
3-1  ATTACHING LENS TO HANDY PROBE

(1) Take off the anti-dust cover of the handy probe.
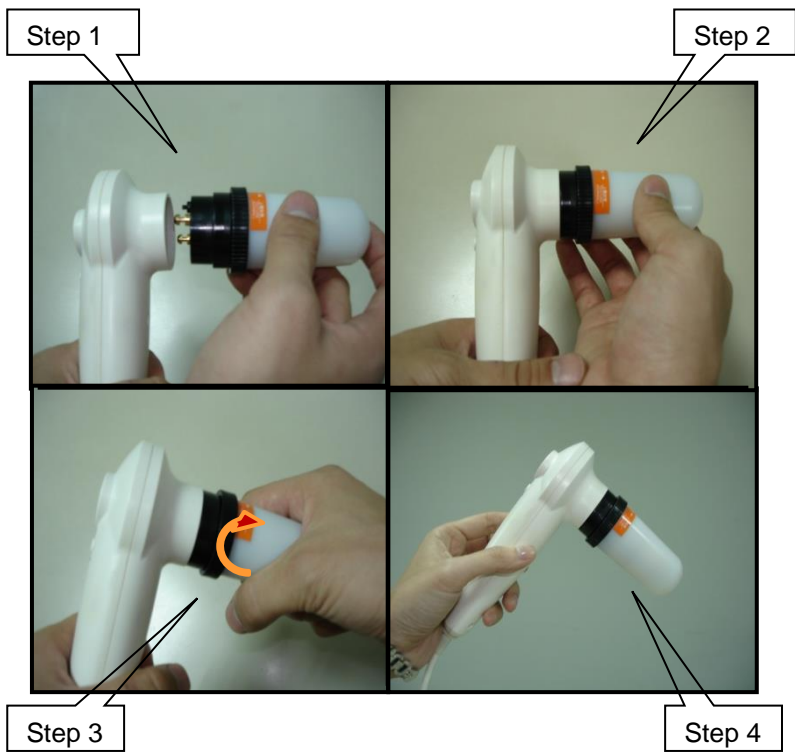
(2)  Find the short post on the lens.

Short post

(3)  Look at the front side of handy probe, you will find there's a "⌒" shape slot.

"⌒" slot

(4)  Match (plug in) the post to the "⌒" shape slot to ensure  they are fully
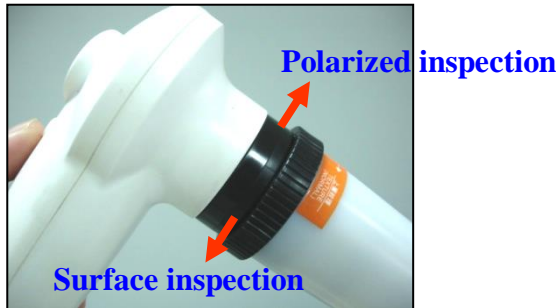combined.   Turn clockwise to screw on  the lens, anti-clockwise to screw
off the lens.

Step 1

Step 2

Step 3

Step 4

# 4. OPERATION OF OPTIONAL LENSES

## (1) 50x Polarized lens

You can rotate the black rubber ring anti-clockwise to make surface skin inspection; rotate the black ring  clockwise you can make deeper layer skin inspection.



Polarized inspection

Surface inspection

## (2) Normal 50x and 200x lens

The lens has been well adjusted the focus.  You can slightly contact skin or hair for image capture.



50x



200x

## (3) 1x focus adjustable lens (for styling purpose)

The focus range  for this lens is adjustable.   You can rotate the black ring clockwise or anti-clockwise to get the right focus of full face/body, half body, or partial face).

＊This lens does not consist any inside LED lamp, therefore getting enough environmental outer light source is required.



## (4) 650x lens (for hair cuticle inspection)

The focus for this lens is adjustable. You can rotate the black ring clockwise or anti-clockwise to get the right focus to inspect the hair cuticle.

**(5) 50RN(UV) lens**

This lens is specially designed for ACNE inspection.  It needs to be applied under "HD-Pro Video Master" software.
＊ Under the UV light of 50RN(UV) lens, the acne will appear in fluorescent brown or red color.  It is very useful in observation.



**(6)  Iris lens (for iridology analysis)**

The focus range  for this lens is adjustable.   You can rotate the black ring clockwise or anti-clockwise to get the right focus of the iris image.




Anti-infection cap, please attach it on the top side of the lens.


The operation of iris diagnosis.

**(7) Microcirculation lens** --- for observing the thickness, shape of the blood vessels, the speed of blood flow of the nail-tip.
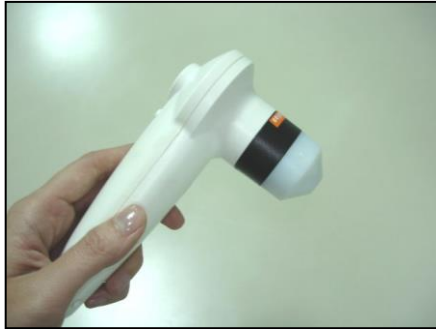


(a) Suggested test part: left ring finger, see the picture for available area.



Available test area

(b) Operation method:
Please apply penetrating oil (vegetable oil) on the test part in order to get clearer image.

Method 1: Hand hold operation
You can hold the handy probe, contact the lens to the available area of left ring finger
**(Refer to operation in next page)**

Method 2: Easy stand operation
You can also fix the handy probe on a stand, adjust the working distance to get right focus & clear image.

# 320x Microcirculation Lens Application

## 1. Standard package
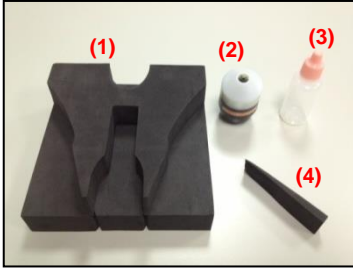


(1) Finger supporter  (Probe stand)  ×1 pc
(2) 320x Microcirculation lens×1 pc
(3) Empty bottle  ×1 pc
    (Please add vegetable oil)
(4) Slope plate to adjust finger height  ×4 pcs
※ Optional: **"HD-Pro Video Master program"**
    which gives good image capture & video
    recording for microcirculation condition
    observation

## 2. Usage of Finger supporter
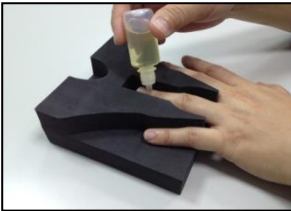


Put the testing finger inside the supporter
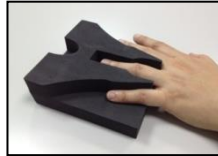
Please insert the slope plate in the supporter
(If the finger is thicker, the slope plate might
be unnecessary.)

You can move the testing finger backward &
forward to find the best view position.
(Ref: 3. Operation of microcirculation
inspection)

## 3. Operation of Microcirculation Inspection



Please apply vegetable oil on the
finger (suggested test part: left ring
finger, just near to the nailfold), oil
applied area about 1cm$^2$.

Hold the HD-01 handy probe
with 320x lens, contact the lens
to the applied area.

You can get right focus & clear
image by adjusting the probe in
a slight slope or moving finger
backward & forward

## 4. The operating position between the operator & the tested



Please hold the handy probe in a parallel direction of
the tested finger, then the microcirculation image will
be in forward direction to facilitate the microcirculation
shape and dynamic observation.

## 5. Put the handy probe back to probe stand

# 5. Connection to PC --- 2 free Capture programs

**HD-01e provides UVC (USB Video Class) camera, *USB plug & play, no USB driver needed!***

•＊System requirement: a. IBM compatible PC

•　　　　　　　　　b. CPU: 2.0GHz Dual-Core

•　　　　　　　　　c. Intel® Core™ i3 Processor or above

•　　　　　　　　　d. HDD: 500G or 1TB or above

•　　　　　　　　　e. RAM: 4GB DDR4 or above

•　　　　　　　　　f. Display resolution: 1366x768 (1920x1080 better)

•　　　　　　　　　g. USB port: 3.0*1, 2.0*2

＊Required OS:  Windows  7, 8 & Windows 10

＊**Remark: HD-01e is with high resolution images for 640x480 VGA mode.**

5-1 Power on your IBM compatible computer.  Insert "**HD-01e Easy Scope**" CD-R into the CD-ROM drive.

5-2 The CD-R will auto-run or click  "My computer" / CD-ROM / "Setup.exe to show the page as below:

5-3  The CD contents include：


**(1) "My Capture Pro. 1/2/4" " program (Refer to instructions: P.13-17):**
**This program assists you to make single / 2 splits (left & right) / 4 splits**
**frame freeze & store function.**

Click "My Capture Pro. 1/2/4" Program,
choose the language you need and "1-2-4
CAPTURE"  icon will be automatically
installed on computer desktop.

(All Windows OS are available.)




**(2) "HD-01 Capture" program (Refer to instructions: P.18-21)：**
**This program assists you to get instant image freeze, store and also**
**assists history image comparison.**

Click "HD-01 Capture", according to
your Windows OS, choose the correct
version  to install.  And "HD-01 Capture"
icon  will be automatically
installed on computer desktop.




(3) User's Manual

# 6. "My Capture Pro. 1/2/4" Program application

(1) Fix the lens on handy probe, connect the USB to computer and turn on your computer.

(2) Double click "1-2-4 CAPTURE" icon on computer desktop to enter the program.



(3) "1-2-4 CAPTURE" home page

**HD-01e** is with high resolution images for **640x480 VGA mode**. Power on your computer & connect HD-01e well, and enter "1-2-4 CAPTURE" program, the default window is in 640x480 VGA (4:3 screen) mode. **Please directly select the freeze function you need.**



Default screen mode: 4:3

1 Frame

2 Splits

4 Splits

Quit

The screen resolution is 16:9 ,Please change to HD mode.
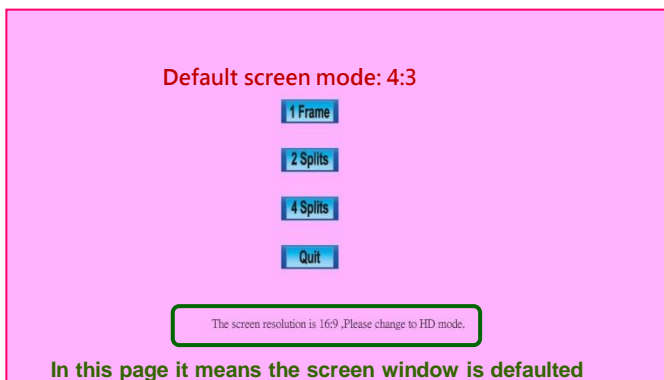
**In this page it means the screen window is defaulted on 640x480 VGA (4:3) mode. HD-01e is just providing resolution for 640x480 VGA mode, so please ignore this reminder.**

# 6-1 Operation procedures under 640 x 480 VGA (4:3) mode

<div style="border:1px solid red; padding:8px; background:#ffffcc; color:red">
While operating Freeze or Release (Re-Capture) function, you can press "Frame Freeze" button on the handy probe or press "Freeze" in the program page.
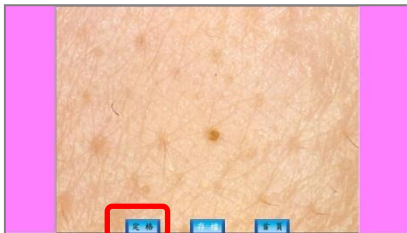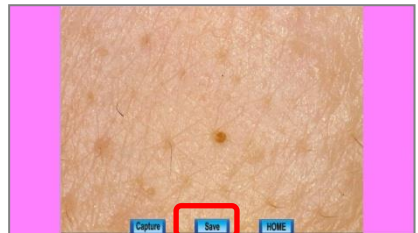</div>

### 6-1-1 Single frame freeze (4:3)
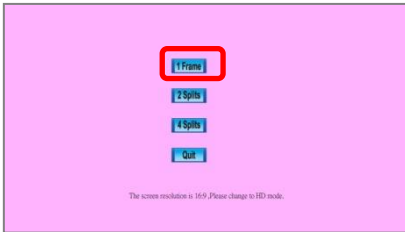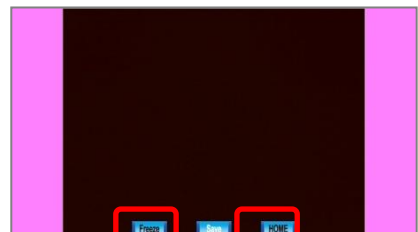


Click "**1 Frame**"



Entering live window.



Capture the image by pressing "**Freeze**" button.



Press "**Save**" to save image. Or you can get new image by pressing "**Capture**".



Find the folder you want to save, input the file name and press "Save". Then this image will be saved in ".**jpg**" type.



After saving image you can press "**Capture**" to continue capture or you can press "**HOME**" to choose other function.

## 6-1-2  2 Split frames freeze (4:3)
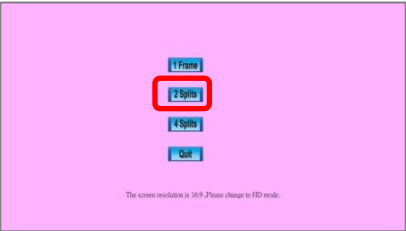


Click "**2 Splits**".
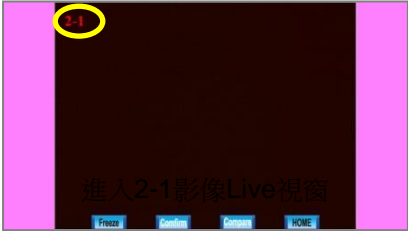


Entering  2-1 live window.



Capture the image by pressing "**Freeze**" button.



(Press "**Re-Capt.**"if you do not like 2-1 captured image.) Then press "**Confirm**".



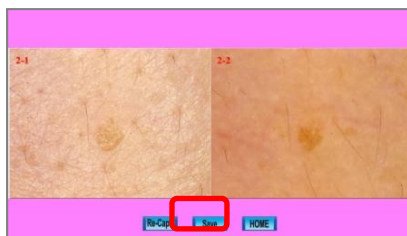2-1 freeze completed, press "**Capture**" to 2-2 image capture.



Entering  2-2 live window.



Capture the image by pressing "**Freeze**" button.



(Press "**Re-Capt.**"if you do not like 2-2 captured image.) Then press "**Confirm**".

15

2-2 image capture completed. Press "**Compare**" to make 2 split frames comparison.



2 split frames comparison, you can press "**Save**" to save image (or "**Re-Capt**." to continue new image capture).
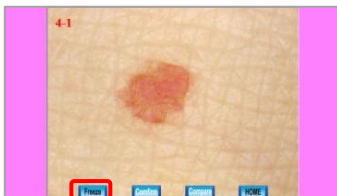


Find the folder you want to save, input file name and press "Save". Then this image will be saved in ".**jpg**" type.
After this, you can press "**Re-Capt.**" to continue new capture or you can press "**HOME**" to choose other function.

## 6-1-3  4 Split frames freeze (4:3)
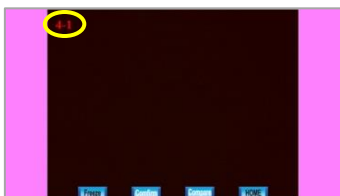


Click "**4 Splits**" from home page, entering 4-1 live window.
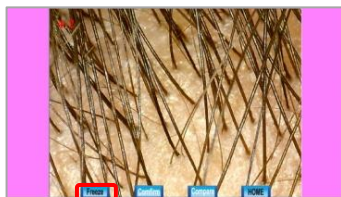


Capture the image by pressing "**Freeze**" button.



(Press "**Re-Capt.**"if you do not like 4-1 captured image.) Then press "**Confirm**".
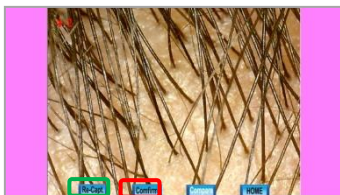


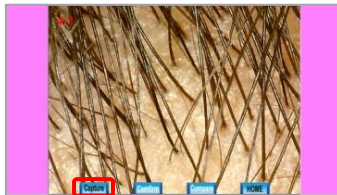4-1 freeze completed, then press "**Capture**" to 4-2 image capture.
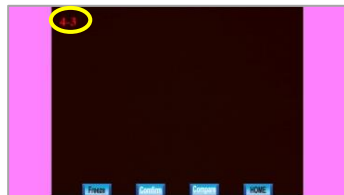


Entering 4-2 live window.



Capture the image by pressing "**Freeze**" button.

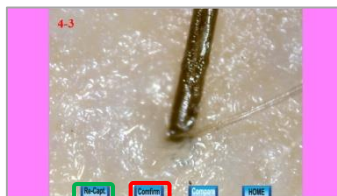(Press "**Re-Capt.**"if you do not like 4-2 captured image.) Then press "**Confirm**".



4-2 freeze completed, then press "Capture" to 4-3 image capture.
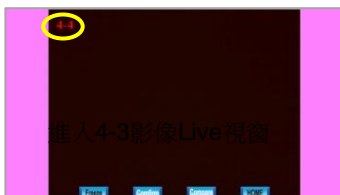


Entering 4-3 live window.
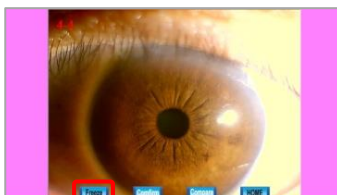


Capture the image by pressing "**Freeze**" button.



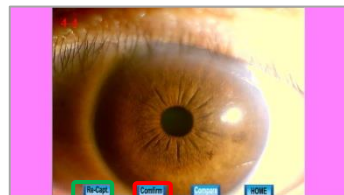(Press "**Re-Capt.**"if you do not like 4-3 captured image.) Then press "**Confirm**".



4-3 freeze completed, then press "Capture" to 4-4 image capture.



Entering 4-4 live window.



Capture the image by pressing "**Freeze**" button.



(Press "**Re-Capt.**"if you do not like 4-4 captured image.) Then press "**Confirm**".



4-4 image capture completed. Press "**Compare**" to make 4 split frames comparison.



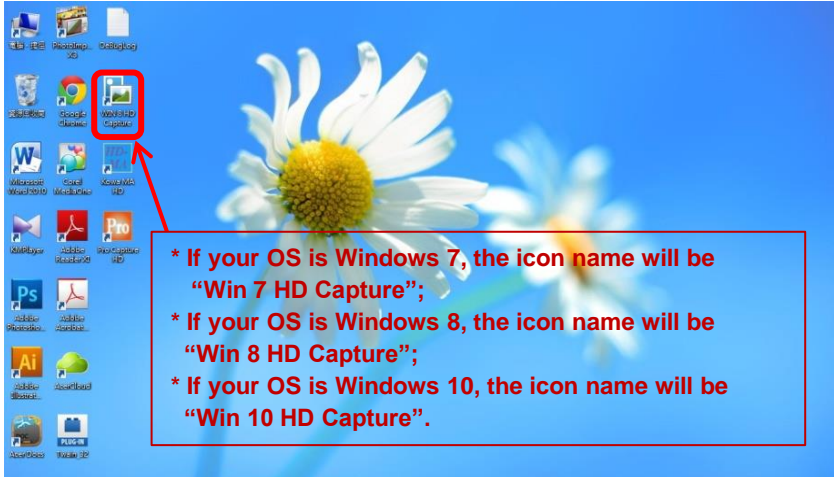4 split frames comparison, you can press "**Save**" to save image (or "**Re-Capt**." to continue new image capture).



Find the folder you want to save, input file name and press "Save". Then this image will be saved in "**.jpg**" type.
After this, you can press "**Re-Capt.**" to continue new capture or you can press "**HOME**" to choose other function.

17

# 7. "HD-01 Capture" Program application

## 7-1 HD-01 Capture operation

(1) Fix the lens on handy probe, connect the USB to computer and turn on your computer.

(2) Double click "HD-01 Capture" icon on computer desktop to enter the program.



* If your OS is Windows 7, the icon name will be "Win 7 HD Capture";
* If your OS is Windows 8, the icon name will be "Win 8 HD Capture";
* If your OS is Windows 10, the icon name will be "Win 10 HD Capture".

(3) Lens with a contact type illumination head is intended to be placed on or held just above the viewing object, Then you will get a vivid image on the screen.
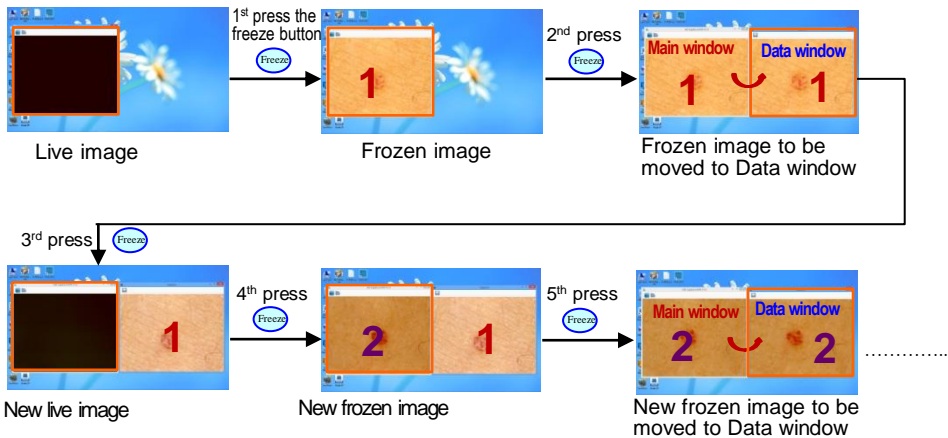
## (4) **Color adjustment**

"HD-01 Capture" can offer color adjustment.  If you want to adjust the color by yourself. click the icon ![icon] from the upper left window, you can change the brightness, contrast, hue, saturation, etc. to your desirable value. Click "Apply" to get your desirable color image.

If you want to change back to the original color setting, you can just click "Default" to get the original color image.
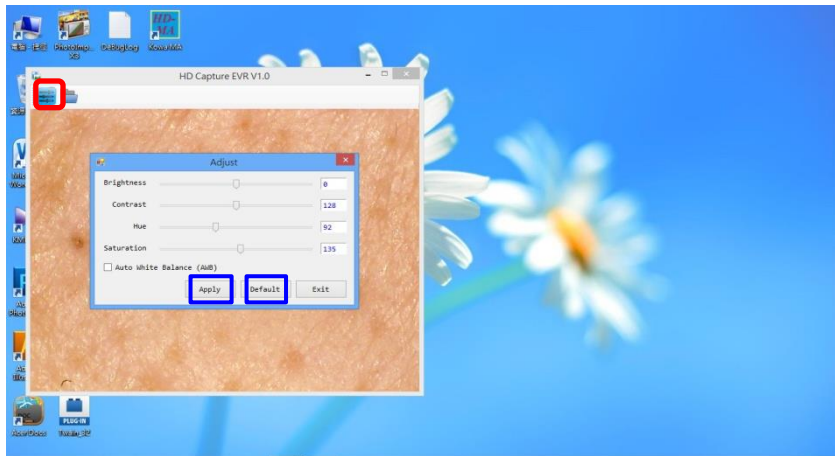


## (5) **FREEZE / RELEASE function**

In "HD-01 Capture" the image freeze / release are all controlled by "Frame Freeze" button on the handy probe.  Its procedures are as below:



Live image

1st press the freeze button
(Freeze)

Frozen image

2nd press
(Freeze)

Main window     Data window
Frozen image to be moved to Data window

3rd press (Freeze)

New live image

4th press
(Freeze)

New frozen image

5th press
(Freeze)

Main window     Data window
New frozen image to be moved to Data window

19

## 7-2 "HD-01 Capture" Operation / Application

### 7-2-1 Image Capture / save procedures (640 x 480 VGA mode)

(1) Double click "HD-01 Capture" icon on computer desktop to enter the program. Press "Frame Freeze" button to capture the image from the live window.
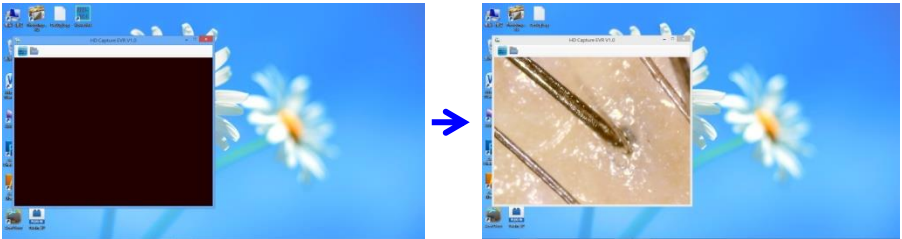


(2) Press again "Frame Freeze" button and the image will be moved from the left Main window to the right side Data window. Now, you can save the image by clicking 🖫 icon on upper left Data window . Please find the folder you want to save, input the file name and press "Save". Then this image will be saved in ".bmp" type.

(* HD-01 Capture" default path is: C:\ WIN 8 (or WIN 7 or WIN 10) Capture \ Pictures. You can also path & save to your desirable folder.)
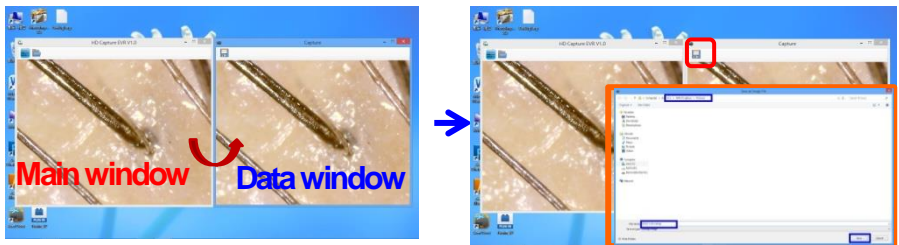


(3) If you will continue capturing images, press "Frame Freeze" button to release the frozen image (make Main window live), press again to freeze new image and press again to move it the right Data window. Then you can save this new frozen image.



20
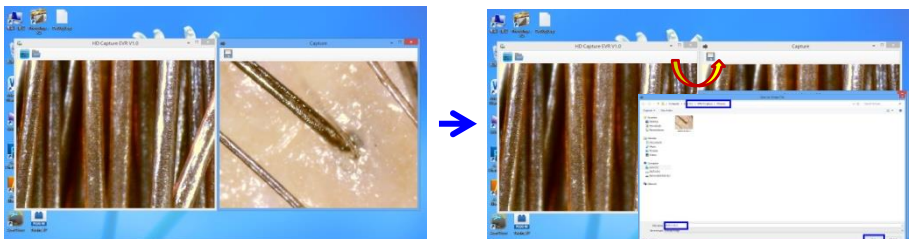
## 7-2-2  Image comparison

(1)  **In "HD-01 Capture" main window you can click [icon] icon to open a saved image to compare the new image you are going to capture.**

Find a saved image from the folder and press "Open".



**Opened image**

**Captured new image**  **Opened image**
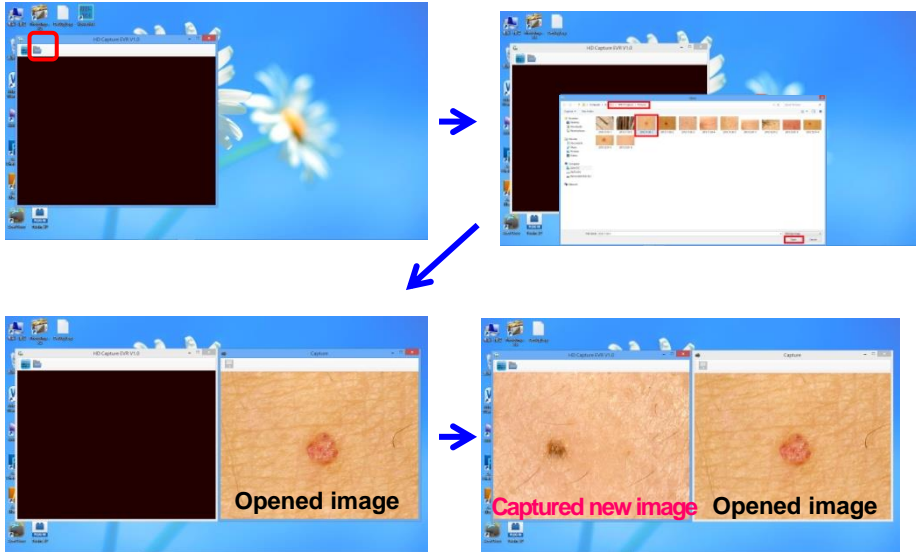
(2)  Now the opened image appears on the right Data window.  You can capture a new image from the live main window to compare  these 2 images.

(3)  You can also do the same method to open other  saved image(s) to the Data window and  capture new image (s) in Main window  for comparison purpose.
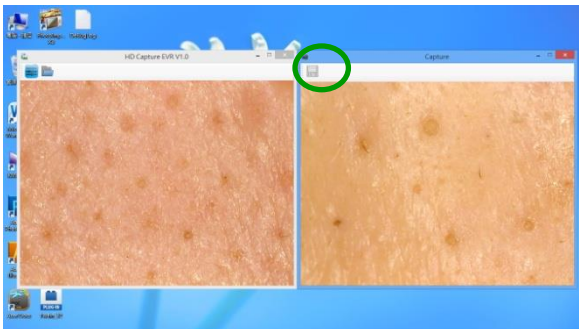


Remark: In comparison mode, [icon] icon is not available.

# ✻ TROUBLE SHOOTING

| No. | TROUBLE | SHOOTING |
|-----|---------|----------|
| 1 | I have fixed the lens on HD-01e, but no function. | Check whether the computer is powered on. |
| 2 | The control box is powered on, but the handy probe doesn't work (the handy probe cannot offer light). | 1). Check if the USB cable on handy probe is disconnected.<br>2). Check whether the lens is locked to its right position.    (Make sure if the lamps inside the lens is light.) |
| 3 | No image on the screen. | 1). Check whether the control box and computer are powered on.<br>2). Check if the USB cable  between the control box and computer is well-connected.<br>3). Connect the unit to another computer / screen judge the unit or monitor is out of order in order to repair it. |
| 4 | How to clean if I find dust pots on screen? | Take off the lens, you can blow out the dust by using a small air pump or wipe the small glass of the camera (inside the handy probe) with a cotton bar.<br>✻ **Please hold the handy probe toward ground direction to avoid new dusts**.<br>If the camera gets mildewed under humid condition, please contact the engineer to clean it. |
| 5 | The freeze function cannot work in "HD-01 Capture" or "1-2-4 CAPTURE" program. | 1). If you can see live image but cannot freeze it, please exit the program & restart the computer.<br>2). If you still cannot execute freeze / release function, please change another computer to test.<br>3). If the condition still keeps unchanged, it's possible the freeze button or the signal connection failed.  We will call it back for repair. |
| 6 | How to adjust when the image color is out of harmony? | Please adjust following buttons of your screen:<br>(1) TINT<br>(2) SHARPNESS<br>(3) BRIGHTNESS<br>(4) COLOR |
| 7 | While using polarized lens to inspect surface skin (or deeper layer skin), why the lower part of screen becomes darker (or brighter)? | It's because you do not rotate the black rubber ring to the bottom of its direction.  So some light is covered (or some light is opened).<br>You should completely rotate the black rubber ring of the polarized lens anti-clockwise (or clockwise). |