

2. If the cause of the failure is as follows, it will be out of the coverage and will be charged.
 - 1) Failure of damage due to careless handling or missuse.
 - 2) Failure or damage due to repair, modification, disassembly, etc. other company.
 - 3) Failure or damage caused by mud, sand, water fog, drop, impact, etc..
 - 4) Failure or damage due to fire, earthquake, flood, lightning strike, other natural disasters, pollution or abnormal voltage.
 - 5) Damage due to improper storage or care.
3. Consumables are not covered by this warranty.
4. Customers are responsible for the freight charges and charges for repaired products.
5. Incidental damage due to failure of this product (costs required for shooting and should be obtained by shooting. We cannot compensate for lost profit, etc)

Precautions for use

1. For cleaning, wipe the close-up unit with a soft cloth.
Do not use benzene / alcohol highly volatile solutions. Be sure to clean lens with alcohol cotton, etc. after each inspection.
 2. Since it has an illumination light source, please avoid using it for people who are sensitive to light.
- ◇ HD-1 system specification
- 1) Smartphone: Xiaomi Redmi Note 8 Pro
Number of camera pixels: 64 million pixels
 - 2) Size: 161.3 x 81 x 20mm
161.3 x 81 x 39 mm (with silicon adapter)
 - 3) Weight: 236g
 - 4) Memory: 64GB / 128GB
micro SD: maximum 256GB
 - 5) Battery: 4500mAh

Derma Medical Inc.

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Instruction manual

For dermatology

Handy Dermo

Model : HD-1



Thank you for using our product
Please read the instruction manual and fully understand it before use. Thank you..

Handy Dermo HD-1 designed for dermatology.
Please avoid using for any other purpose.

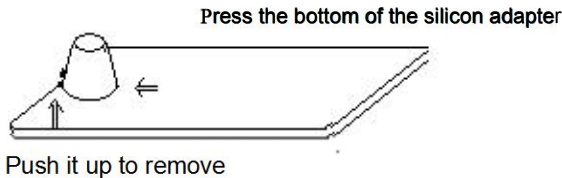
Confirmations of set contents

The following items are included in the HD-1.

- Camera body set ((Redmi Note 8 Pro by Xiaomi)
Charging unit, USB cable, and SIM pin for micro SD
- Handy Dermo (close-up photography adapter set)
Polarizing filter on/off
- Silicon adapter (with glass for gel or oil)
Fit the camera's silicon adapter into the silicon mount.
The focus will be just right.
- Light guide LG-2
Use in tight spaces such as between fingers or near nose.
- SIM Pin: Motorola G13
Note 1) The smartphone is already charged and loaded.
Note 2) If you set the switch knob to the inside, you can switch to the polarizing filter mode and the outside.
If you set the glass to silicon adapter, it will be in gel or oil mode.

Attach the silicon adapter to the camera

- 1 Fit the silicon adapter into the silicon mount.
- 2 To remove the silicon adapter, push the lower part up and lift the protruding part to remove it.

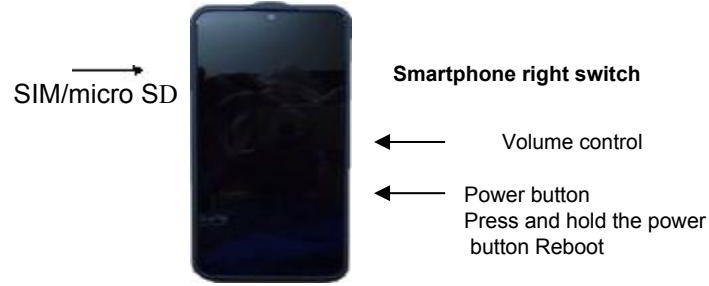


To shoot

- 1 Turn on your smartphone. Press the lower switches on the right side of the smartphone body. Swipe up the screen to turn on the power. After that, press the camera mark button (Handy Dermo) at the bottom of the screen to launch the dedicated application.

The settings of Xiaomi Redmi Note 8 Pro are as follows.

- 1) Language selection: Japanese,, Area selection: USA, SIM card: None
Google account: None, MI account: None, Fingerprint registration: None
WIFI setting: None
Low waterproof and dustproof (although it is waterproof enough for daily life, it will be out if submerged in the bath)
Note: Please do not upgrade Android. If you do, the dedicated app may not work properly. Modifications will be charged.
- 2) Only use the camera. The camera frame is 3: 4.
- 3) Set to airplane mode. Reduce power consumption due to radio waves.
- 4) Operation buttons



- 5) Display Brightness Adj : Manual mode and max. adjustment.

About repair

When sending to us for repair, etc., disassemble the silicon adapter. Please pack it with material and send it.

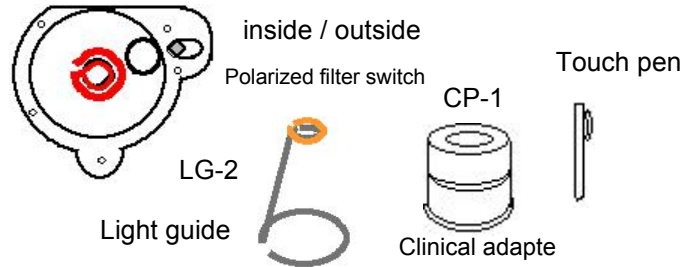
About warranty

- Our company registers your purchase date (shipment date) We will respond if you contact us with the name of the clinic and your name.
 - The warranty period is one year after purchase.
 - Basically, with normal use of the smartphone and system, We guarantee the failure for one year.
- When it comes to repairing smartphones, the cost of repairing with LCD glass etc. by dropping, is expensive, so it is not usually covered by the warranty, but as an option, we also guarantee this LCD repair with an insurance premium of 10,000 yen for 2 years. ..
- 〔Warranty provisions〕
1. Repairs will be charged after the one-year free repair period.

- Normally, an image is taken with an electronic zoom of about 3.5, and it is magnified and observed during playback. The resolution will be better than when magnifying the image.
- Including silicon adapter and optional glass, Sterilization is possible with an autoclave.
- Take the silicon adapter and take a picture of the patient name in the medical record. After that, it is possible to take an image of the patient.

Convenient option for clinical and narrow area skin imaging

Remove the silicon adapter and insert the clinical adapter and light guide in the center. The tip of the light in the focus point. It is easy to use near the nose of the face, in the ear and between fingers, etc. Insert the clinical imaging adapter in the same way. Adjust with zoom, and take focus and image. Use with the contrast of video characteristic 2 weakened. LG-2 is standard accessory..

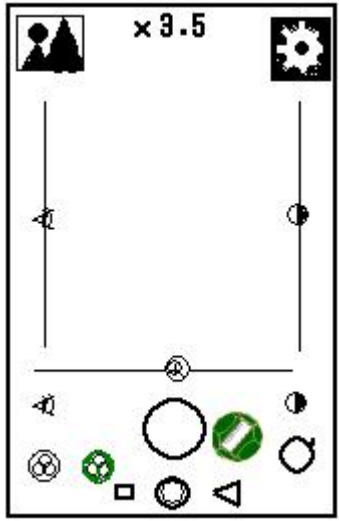


Connection with a computer and the images

Connect to your computer with the included USB cable and transfer the captured images to your computer for saving. Smartphone when connecting a computer and a USB cable. If you give permission to transfer images to, it will be transferred. There are images in Handy Dermo in DC-IM in the file in the memory of the smartphone..File manager in display can be opened. There are pictures. You can delete the pictures and also check the pictures.

Initial setting

Dedicated application operation



Focus

Click the button below to set autofocus. once again Press the manual "Focus will bring up a vertical bar. Adjust up and down.

EV(exposure value)

Click the button below to set the standard settings. Press it again to manually adjust with the vertical bar. Adjust up and down.

Electronic zoom

Adjust left and right,

x 10 : Actually 35 times
x 3.5 : Actually 10 times
x 2.5 : Actually 6 times

Video characteristics 1
standard for strong contrast
The one to set is green around

Video characteristics 2
Weaken the setting contrast

Touch during playback image.
Left and right arrows will appear below, so select the image you need.

Image selection button during playback

Reset button: Return to default settings Focus / EV / Zoom

Shutter button: After adjust focus and capture

Zoom ratio initial setting can be changed

Electronic scale

How to display images with a dedicated app

1. Press and hold the power switch and slide it by hand when the screen appears to unlock it..
2. Camera button at the bottom center of the screen (Handy Dermo) Touch to launch the dedicated app.
3. When you start ,each setting and change method

1) The digital zoom is set to x3.5 times.



In case of change, press this button on the upper right, and touch number of zoom ratio and the number plate will appear and enter the number. Whether to keep the setting state after power on/off. To keep the setting : OFF To reset the setting:ON.Touch the black screen to display [SAVE] and [RESET]. Touch "SAVE" below to return with "Return to camera". After returning to the imaging screen, press the reset button to set It will end.


- 2) The EV exposure is set to the median.
- 3) The focus is set to autofocus. However, it is required to touch the image to be focused. In large zoom number, it is recomend to set to manuak focus.for precise focus.
- 4) Video characteristics are set to high contrast mode.
If you look at the image and the dark areas are hard to see, Set to weak contract mode. The background of the button lights up in green.
- 5) If the actual image comes out and you need to make fine adjustments,
You can manually adjust the exposure by touching the button below.A vertical bar will appear, so slide it up and down to adjust.
- 6) Electric scale ON/OFF (Surrounding green lights ON)
(The unit of the scale is mm)

4. image playback

Touch the mark on the upper left to set the playback image mode.
Select an image with the arrows (left and right) below.The arrow on the upper left retages

5 How to check captured images and delete images.

Touch the file manager to launch it. Touch the green image to see the images you have taken so far. You can check the image by touching it. Touch the circle at the bottom right of the image to select it, and at the bottom of the screen you will be asked if you want to delete it, and if you touch the character to delete, the image will be deleted. Select and touch Delete at the bottom of the screen to delete Remove the silicon adapter and insert the clinical adapter and light guide in the center. The tip of the light in the focus ppoint It is easy to use near the nose of the face.

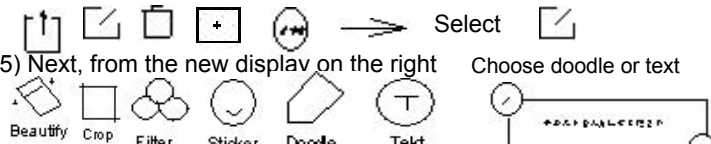
6. How to use HDR mode Touch  this mark and get playback mode.
HDR widens the dynamic range and increases contrast.

Select a proper one from HDR1, HDR2, and HDR3 on the upper left. Until results, a rotating circle in the center of the screen. To save it, touch the arrow mark on the right end.. 'Image saved' letters appears. HDR is printed.

How to put a note in an image

The original image remains.

- 1) Touch the file manager to start it.
- 2) Touch the green image on the upper left to display the playback image.
- 3) Select the specified image from the images.
- 4) Display below the image



- 5) Next, from the new display on the right Choose doodle or text

- 6) When selecting text Touch to bring up the keyboard.
The display on the right appears at the bottom of the screen, so,

7) When choosing graffiti

You can write with a touch pen (non-pressure sensitive type). The color of the pictogram to be written is determined by changing the position of the circle of the color determination line below. If you touch what you wrote, touch the stop penalty point, and to change the size, touch the white circle.

8) How to save an image with a memo

Touch the check mark at the bottom right and touch the save button.

Shooting mode

Usually, I shoot with a silicon adapter (without glass).

1. Polarizing filter mode

Use the polarizing filter switch on the orange knob to move it to the back.

2. Normal mode (or gel or oil mode with a glass)

Turn it outside with the polarizing filter switch on the orange knob. If you insert the attached glass into the groove on the top of the silicon adapter, you will be in gel or oil mode.

3. Reflection of lighting when glass is attached to the silicon adapter
The image is shown, but the image is 10x (electronic zoom ratio 3.5).
Then it will disappear from the image.

(Continue to the next page)