

BIO-S1

Handheld digital medical scope series

User's manual



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1.Application

The medical scope is well applicable for hospital,clinics,policlinic,emergency room and medical ward,for doctors and nurses to exam ear,nose and throat.

2.Components

The medical scope S1 includes otoscope lens,main unit,adaptor,TF card,AV joint and USB cable.



3. Specifications

LCD screen:	3.5 inch LCD
Light source:	Natural white LED
White balance:	Automatic color calibration
Resolution:	720 X 480
Focus range:	20~60 mm
File format:	JPG (still image) , AVI (video)
Interface:	USB,AV output
Storage:	Micro SD card
Battery:	Li-ion rechargeable battery
Power supply:	100V~240V AC50/60Hz DC IN+5V 1A

4. Operation Environment

Ambient temperature:	10℃ to +40℃
Relative humidity:	≤80%
Atmospheric pressure:	860hPa ~ 1060hPa

5. Storage Environment

Ambient temperature:	-10℃ to +50℃
Relative humidity:	10% to 80%,
Atmospheric pressure:	860hPa ~ 1060hPa

6. Assemble and use

1) Assemble the S1 main unit and lens, noted aligning to the locating port.



2) Hold camera lens and insert into the main unit.



- When assembling
pinch here and press hard
at the direction of main unit.



- When removing
pinch here and pull outward.

3) Assemble and remove the disposable speculum




- Assemble the speculum
Disposable 4mm speculum recommended




- Remove the speculum
1. Press the jutting mark,
2. remove outwards the speculum




4) Operation instructions

a) Press the power button  to power on, about 2 seconds later, the start image indicates on the LED screen.


b) Menu screen





I Press  button to enter the 'Menu' mode. It is recommended to set the operation conditions according to the user's requirement for the first use.



I Menu list: Playback, language, date/time settings and so on.





I Press   to select, press  to enter next menu.

c) Press  to take photos,

Press  to start video recording, press it again to stop recording.

d) Press  can view photos and videos taken. Users can press   to select any file, press  to review.

I In photo playback mode, press  to zoom in (Max 3 times), press , to zoom out the photo.

I In video mode, press  to play video, then press   to select playback speed. Press  to pause.

e) When live display, press  to freeze real time images.

f) Press  to power off.

7. Buttons and interfaces introductions

1) Buttons function introductions



2) Side panel interface introductions



OFF: Press 'OFF' to power off directly in any case.
'OFF' button designed to prevent buttons not working caused by main unit software's problem.

AV OUT: Through 'AV out', images captured by main unit can be transferred to monitors which has AV input function.

USB: Through USB cable, we can realize function:
- Charge battery,
- Connect and transfer images to computer
- Main unit used as computer's USB camera to capture images
(1280*720)

TF: Store images and videos, max 32G recognition.

8. Charging and connection

I Charging:

Connect main unit and adaptor to charge.



I AV output connection:

Through AV Connection, you may connect external monitor to view live images.



AV joint

I USB connection:

Through USB cable, you may connect to any computer to transfer images.

When connected to computer, there is a hint on LCD screen, you may select the function you need.



9. Notes and Warnings

- I Do not Immersion disinfection, especially the lens.
- I Sterilize the main unit with 75% diluted alcohol dipped soft cloth.
- I Clean the screen with soft cloth moistened with water. Do not use alcohol, diluent and detergent.
- I Replace speculum and clean the lens before each use for a new patient: Clean the lens with soft cloth or cotton ball dipped with 75% alcohol.
- I For the lens, please avoid being impacted and scratched by sharp objects. Otherwise images will be effected.
- I Do not use in Inflammable and explosive environment.
- I Do not use S1 when charging.
- I When use the otoscope lens, insert ear canals softly and keep the safety distance between otoscope lens and eardrums. Do not make the otoscope lens contact with eardrums.

10. Warranty

- 1) The warranty is 12 months since the date of exportation.
- 2) Following cases are not included in warranty:
Natural disasters, artificial destruction, lack of proper maintenance, self-disassembling.

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