

VIDEO OTOSCOPE



HS-OT10X

DEVICE APPLICATION

Video Otoscope are used for the direct examination of the auditory canal and tympanic membrane. Any use other than that described here is not in accordance of the intended use of the product, we are not liable for any resulting damages. The handle supplied with the device is the only power supply that must be used with the device. Only a trained practitioner in these skills is allowed to use these devices.

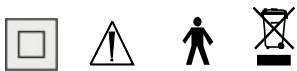
PACKAGE LIST

- Video Otoscope 1pc
- Type-C USB cable 1pc
- Ear Speculum tips ,4mm,5mm total 8pcs in all
- Instruction manual 1pc



Jeashia

<https://www.honsun-medical.com/>



VIDEO OTOSCOPE

Please read this manual before use the device to ensure proper action during use of these medical grade instruments. Only trained practitioners of these devices can use this product. After reading, please keep this manual in a safe place in case you need to consult it. With stable performance and plug and play, this product is the best instrument for diagnosis, teaching in ENT.

	Manufacturer
	Electric shock protection Class II equipment
	Symbol for the marking of electrical and electronics devices according to 2002/96/EC. The device, accessories and the packaging have to be disposed of waste correctly at the end of the usage. please follow Local Ordinances or Regulations for disposal.
	Type B Applied Part
	Attention, consult relative documents

SAFETY INFORMATION

Basic safety measures should always be followed including the warnings and cautions listed in this instruction manual.

Warnings & Cautions:

- Please don't use the device exposed to flammable gas.
- Protect all device parts from water, moisture, impact, dropping, direct sunlight, heat and fire, freezing, wind, dust, fumes, oils, perfumes, leaking batteries/corrosive substances, children and animals.
- Please don't touch the camera lens directly, or touch it with a sharp object.
- This device has no spare light bulb to replace.
- Do not use corrosive or polishing solution to clean the instrument.
- Please do not share with humans and animals, and place the instrument out of reach of children and animals.
- Please don't disassemble or repair the device or components. The warranty will be invalid if this has been attempted. Routine maintenance per this manual is accepted.
- You can refer to this manual for routine maintenance .
- Store the instruments in box in a dry room at normal room temperature.

GENERAL FEATURES

- Lightweight and compact, easy-to-operate form factor;
- Professional optical lens, clear image with little distortion;
- Professional upper computer operation software;
- 1.28-inch display and brightness adjustment;
- Key switch can take pictures and adjust the brightness of the light source;
- 2000mAh battery with long battery life;
- Highly visible LED cool white light source;
- Ear speculum screw-in type for easy replacement
- Automatic white balance;
- Type-c port compatibility.

USAGE CAUTION

- The temperature of the product will rise slightly when using it (up to 38°C), it has no effect on the human body, please feel free to use it;
- When cleaning the lens, it is recommended to use an alcohol swab to wipe it carefully and gently;
- Observe the surrounding area before and during use, and do not use the product in an environment where people are running or where there are obvious vibrations;
- For children, it is recommended to use the product above 1 year old, and minors are prohibited from using the product alone to avoid inadvertently causing injury;
- Prohibit the use of the main body of the metal rod outside the part of the use of liquid, so as to avoid damage to the circuit;
- The product has a built-in carp battery, if not used frequently, please charge it once every two months.

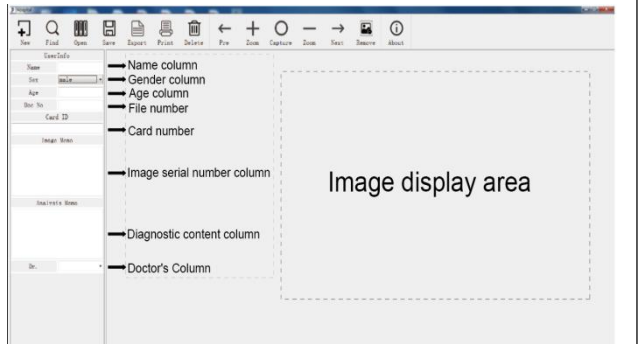
HOW TO USE

- On and off
 1. Short press the scroll button for 2 seconds to turn ON/OFF the device: when the device is turned on, the display screen shows battery range and "welcome"or"Jeashia";
 2. When the device is in single status/Wi-Fi connected, press and hold the button for 5 seconds to power off. If no operation is performed, the device will automatically shut down in 1 min, and show "byebye";
 3. When the device is connected with computer, the screen and camera will turn to sleep mode if no operation in 1 min; if the device was moved or operated in another 5 mins, the screen will wake up again; if no operation is performed for 5 mins after sleep mode, the device will automatically disconnect with computer and shut down;

- Functions of button
 1. In single status/Wi-Fi connected, the button scrolling up is used to adjust the screen brightness. Scroll up two clicks the brightness is increased for 1 level, total of 10 levels (D1-D10 shows on screen) of brightness for a cycle. Press the button to save the screen brightness level.
 2. In single status/Wi-Fi connected, the button scrolling down is used to adjust the camera light brightness, scroll down two clicks the brightness is decreased for 1 level, total of 10 levels (L10-L0 shows on screen) of brightness for a cycle. Press the button to save the screen brightness level. L0 means no camera light.
 3. When Wi-Fi connected with the APP, press the scroll button to take the pictures. The display screen will flash a letter "P" when the photo was taken, and the photo will be saved in the file.
 4. When Wi-Fi connected with the APP, long press the scroll button to start recording, click the button again to finish recording, the video will be saved in the file.
 5. When the device is connected with computer, press the scroll button to take the pictures. The display screen will flash a letter "P" when the picture was taken, and the pictures will be saved in the software that installed on the computer.
- LED indicator
 1. After powering on, a white LED indicator lights up;
 2. Wi-Fi connected with the APP, a green LED indicator lights up;
 3. During charging, a blue LED indicator lights up accompanied by a white breathing LED light. Upon fully charged, the white LED indicator lights up.

HOW TO USE THE COMPUTER SOFTWARE

- Icon Description
New Find Open Save Expert Print Delete
Pre +Zoom Capture Zoom Next Remove About
- Interface Funtion Description
- Function of the key
Camera restart → Press **F5** to restart the camera.
Hospital name change → Press **F8**, the rename window will pop up, press OK to save;



- Video Jump-Through Instructions
Double click the video fixed display area (behind About), the video area will jump to the main interface; close the video on the main interface, the video will back to the video fixed area.
- Camera Selection Instructions
If the computer has more than one camera, when this device is plugged into the computer, it will pop up multiple camera selection, you need to select this device to work properly.

Mobile App Usage Notes

- For the security of your device and personal data, please ensure to download the official mobile application exclusively from our company's website.
- Wi-Fi Connection:
 1. First, turn on the device. Enable your mobile device's Wi-Fi and looking for 'HA-E01-xxxxxx' to establish a connection.
Your device may display a prompt (varies by operating system); select 'Keep Connected' .
 2. A green indicator lights up once connected with the Wi-Fi successfully.

MAINTENANCE

- Do not use ethanol or other organic solvents to clean the lens;
- Wipe the lens with a lens brush or soft cloth;
- Clean the surface of the device at least once a week with a 75% alcohol solution;
- The earcups in the accessories can be sterilized by autoclaving at 134°C for 10 minutes;
- Do not sterilize the instrument in an autoclave;
- If liquid enters, turn off the power immediately and send it to the service center for repair, do not use a hair dryer;
- Prohibit the use of corrosive or polishing cleaners, do not immerse the instrument in water or other cleaning solutions;
- Long-term non-use, please keep the lens dustproof or put it back in the box.

SAFETY & ELECTRICAL CLASSIFICATION

The following safety inspections should be carried out at least once every 12 months by qualified personnel with specialized training and practical experience and make the following checks.

- Check equipment instruments and accessories for mechanical and functional damage;
- Check that safety-related labels are recognizable;
- Verify that the equipment and instruments are functioning properly as described in the instructions for use.

Product electric shock protection classification: Class II Internally powered equipment.

Degree of protection against electric shock of the applied parts: Type B

Lens inlet protection degree: IP65

Equipment work operation mode: continuous operation

The product is not suitable for use in the presence of flammable mixtures.

WARRANTY INFORMATION

The instrument has 1 year warranty.

Sales Agent will work with the device manufacturer with any claims arising during the warranty period. The scope of the warranty covers defects in workmanship and materials only. The warranty period begins from the date of purchase. If the product is defective due to workmanship or materials then our company will either repair or replace the part of the device concerned, whichever our company believes to be appropriate under the circumstances. Manufacturer is not responsible for removal or shipping the product to a service centre or delivery back to the customer. We are not responsible for any incidental or consequential damages resulting from the defect or from shipping/postal services. Problems from improper maintenance, incorrect usage, use of non-designated accessories/ replacement parts are not due to defects of workmanship or materials. If Sales Agent or Manufacturer determines that the problem is not due to defects in workmanship or materials within the warranty period, customer will be responsible for the cost of any necessary repairs or replacement. Defects arising from wear and tear such as scratches, dents, cosmetic blemishes are not covered. Defects arising from dropping, water, moisture, impact, direct sunlight, heat and fire, freezing, wind, dust, fumes, oils, perfumes, leaking batteries/corrosive substances, children and animals are not covered.

Accessories and ear specula are not covered under warranty. Manufacturer assure the repair charge will not exceed the sales price. Our company reserves the right to void any warranty claim, they believe to involve misconduct, violation of the warranty or liability or damage towards the company.

Please contact Sales Agent or Manufacturer before returning any product for warranty inspection, for return details. Failure to do so may result in your device being destroyed and no liability will be held with our company.

TROUBLE SHOOTING

Trouble Vision	Possible Reason	Solution
Blank screen	Normal display protection; Equipment failure.	Press and hold the button; Contact maintenance.
Vague picture, Discoloration, Slow speed	Dirty lenses; USB data cable cord failure;	Wipe the lens with an alcohol swab or dip it in pure water; Replace the USB cable;
Picture distortion	USB data cable line failure; Internal camera malfunction.	Replace the USB cable; Contact for repair.
Lens LED is dim or does not light up	Improper selection of brightness level; Insufficient battery power; Damaged LED.	Press the brightness switch to adjust the appropriate brightness; Use it after fully charged; Contact for repair.
Application is crash/quit unexpectedly	The compatibility between the device software and the display terminal system is abnormal;	Upgrade the computer operating system;
No response to boot or Cannot recognized	The battery is exhausted; Internal camera malfunction.	Fully charged and used; Contact for repairs.

PARAMETERS

Item	Parameters	
Name	Video Otoscope	
Display	1.28" round TFT color display	
Backlight LED	10 level adjustable backlight LED	
Image Sensor	0.3 Megapixel HD Lens	
Depth of field	15~25mm	
Field of view	100° (Sensor diagonal field of view)	
Image resolution	720×480p	
Data Format	JPG,BMP	
Frame rate	Max 30fps	
White Balance	Auto	
TV Distortion	<25%	
Min-illumination	1.0lux	
Light sources	LED illumination	
Illuminance of source	Max. 500lux (30mmdistance)	
Interface Mode	Type-C	
Power Input	5.0Vdc from USB port	
Working current	200mA (include LED illumination)	
Operating system	Windows	
Language (Application)	English, Chinese	
Operating ambient	Temperature	-10℃~40℃
	Humidity	30%~80%
	Air pressure	700hPa~1060hPa
Storage&Transport	Temperature	-20℃~70℃
	Humidity	10%~90%(Without condensation)
	Air pressure	500hPa~1060hPa

FCC Warning

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE 1: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.