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**ISV-2000D/2001D/3000D/3001D
360° SWIVEL VIDEOSCOPE
OPERATION MANUAL**

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Product Introduction

ISV-2000D/2001D/3000D/3001D videoscope is an inspecting device that of an integration of optics, electronic technique, precision machinery and mico-photograph technique.



- ◆ Optical testing
High light 3.5" LCD screen monitor, ultra-mini CMOS/CCD image sensors amplify the images and display inspection results on the LCD screen. The bending part is made of precision joints.
- ◆ Portable and practical
Portable and easy to operate, friendly interface; dismantable and rechargeable alkaline batteries.
- ◆ Futures
High sensitiveness CCD/CMOS image sensor, 5x real time image zoom function.
1.5 or 3 meter inspection distance with LED cold light.
SD card storage media, still capture/video function, 640X480 resolution displaying.
- ◆ Applications
Automobile, machinery, electronics, petrochemical, aviation, aerospace, marine and Building inspection.

Main Unit



Switch key:
Press this key to switch between take picture and take video mode in initial interface.
In menu mode this key perform as a browsing key.

Play&stop key:
Press this key to enter memory mode, then press switch key to browse photos/videos taken before, press take picture or take video key back to initial interface.
Play&stop the videos, press switch key back to memory mode.

Take picture/enter key:

In take picture mode, press to take picture. In menu mode, it is used as confirm key.

Take video key:

In take video mode, press to take video, press again to stop taking video.

Menu key:

Press to enter menu mode, press switch key or LED brightness adjustment key to browse menu items. Press take picture/enter key to do selection and setting. Press this key again to quit from menu mode.

LED brightness adjustment key:

Press to adjust 5-level recycling light illumination.

Zoom key:

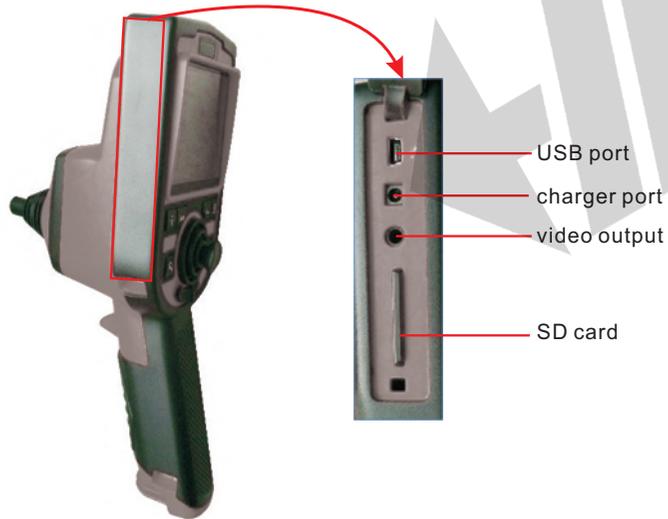
In initial mode press to select magnification(1~5x).

Joystick:

360° full controlling, four-way articulation.

Joystick damping key:

Regulate the obstruction of the joystick and lock the bending articulation direction.

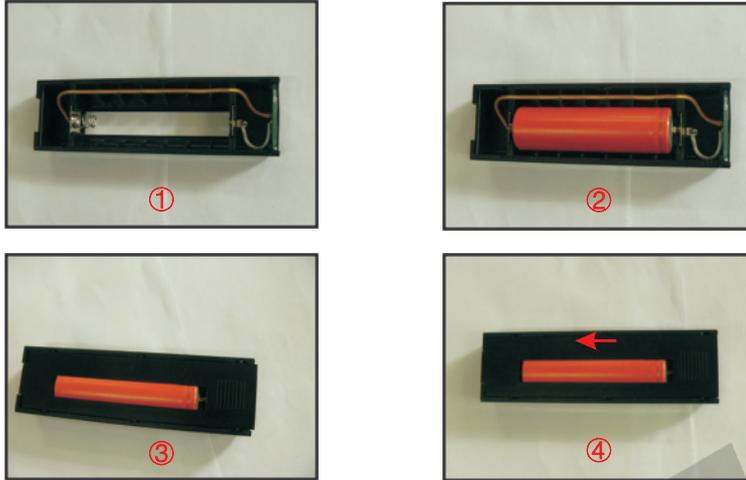


battery base

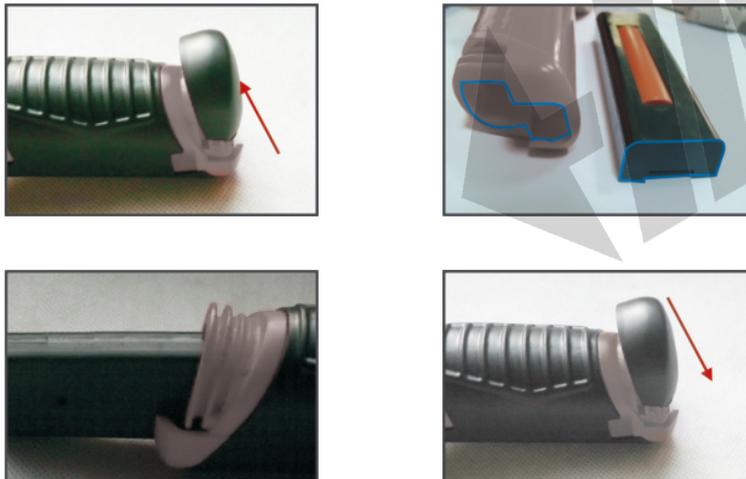


Battery Installation

Put battery into the base:



Put battery case in to main unit:



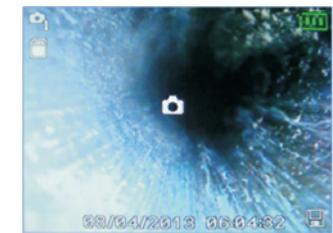
Operation

Make sure battery and SD card are installed before using, then turn on the device.

- ① Power on/off:
Long press power on/off key to turn on /off the instrument.
- ② Start inspection:
Press LED brightness adjustment key to turn on LED light.
Insert probe to the objects.
Control joystick key to make probe get to the target position.
Move joystick damping key to right position, the probe will be fixed.
Adjust LED illuminance and press zoom key to reach the best image effects.
NOTICE: Make sure straightness of the probe before inserting into objects to avoid damage to the probe.
- ③ Take picture:
Press take picture key on the back to get a picture.



take picture mode



taking

- ④ Take video:
Press switch key to enter take video mode, then press take video key, press again to stop taking video.



take video mode



taking

- 5 View the picture or video taken before:
 Press play&stop key to enter memory mode, then press switch key to browse photos/videos taken before, press take picture or take video key back to initial interface.
 Press this key to play or stop playing the video, press switch key back to memory mode.
 Press zoom key to enter list mode, press again back to memory mode.



view the picture



view the video



list mode



play the video

- 6 Delete the picture or video:
 Press menu key when view the picture&video.
 Press switch key to select item and press take picture to confirm.
 Press switch key to select YES or NO then press take picture key to confirm.
- 7 Upload the picture or video to computer:
 Use the USB cable or take out the SD card, then connect it to computer.
Please turn off the instrument when take out SD card.
- 8 Video output:
 Connect the main unit to TV or other screen with AV port by use Video output cable.

Menu Setting

Press menu key to enter setting items list, use switch and LED brightness adjustment key to select item and press take picture key to confirm.

- 1 Image resolution:
 Press switch key to select the items.
 Press take picture key to confirm the resolution setting.
- 2 Set data/time:
 Use switch key and LED brightness adjustment key to adjust the value, press zoom key to move the cursor.
 Press take picture key to confirm the setting.
- 3 Time Stamp:
 Press switch key to select on/off, press take picture key to confirm.
 Time stamp marks the date taking photos or videos and shows date in memory mode.
- 4 Format:
 Press switch key to select YES or NO, then press take picture key to confirm.
- 5 Language:
 Press menu key to get to the submenu and press take picture key to enter the language setting menu interface. There are four languages, English, German, French and Simple Chinese, press switch key to select the right language then press take picture key to confirm.

Warning

Do not use out of range of -10°C to 50°C

Do not place the videoscope in corruption environment.

Do not expose the videoscope into the rain and place the probe under water long time.

Do not place the videoscope in the magnetic environment.

Do not use the videoscope in mass dusty environment.

Keep the controller clean and do not scratch the monitor.

Do not disassemble the videoscope, the maintenance service goes only to the person (s) the manufacturer authorizes.

Do not operate the videoscope when cable knotted to avoid damage to internal steel wire.

When taking picture and video, make sure LED is suitable for inspection and not tremble the probe.

Check if batteries installed and charged before inspection.

After inspection, straighten articulation and then pull out, do not pull out in a rush.

Clear the videoscope and the probe head and lense with wiper, put into the case; do not squeeze, shock and impact the monitor, to avoid damage. If not use the videoscope in a long period, take out the batteries to avoid the corruption to the instrument.

Maintenance

Keep the videoscope clean and dry after on-site work.

Place the videoscope into the designed case for the sake of extending shelf-life of the product.