

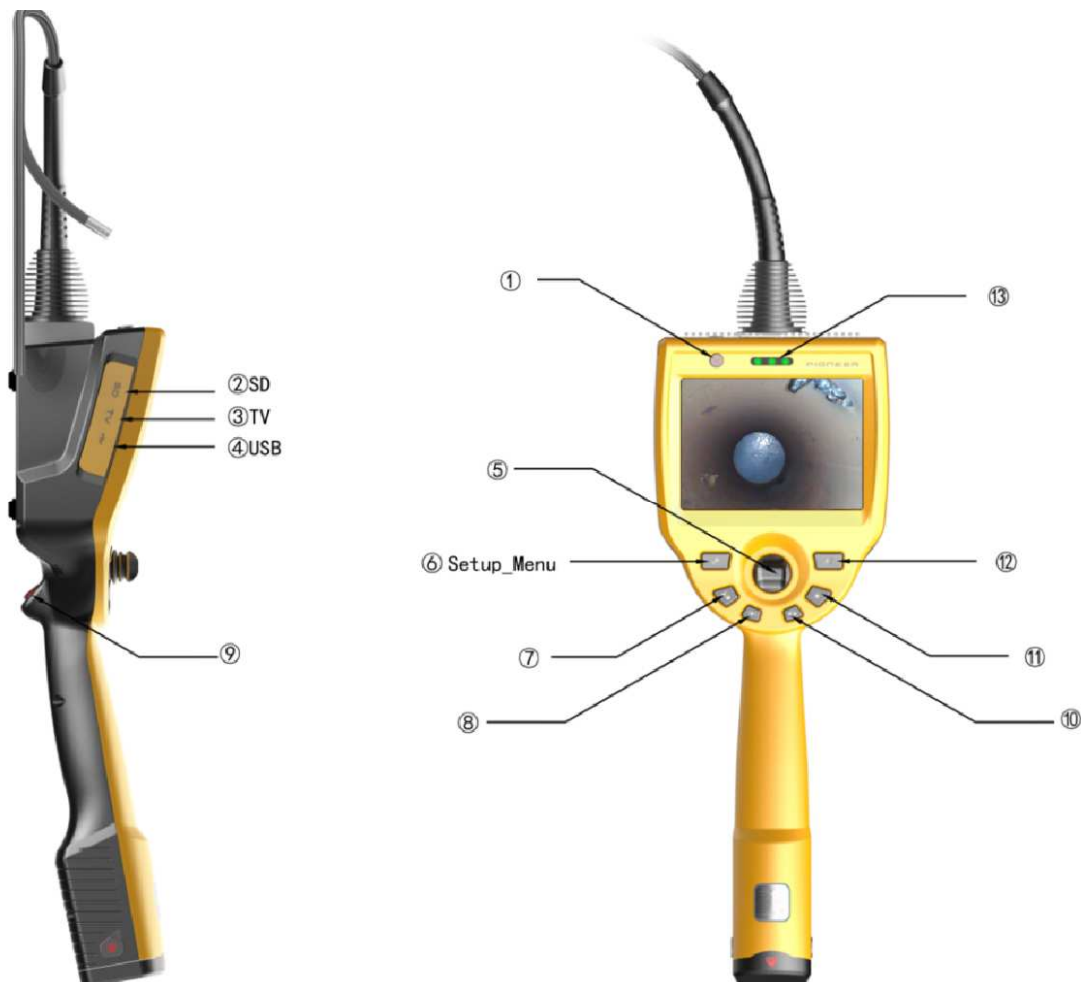


## **Industrial Endoscope series RF-ENDO-602-YKT Manual**

## Instruction

1. Fix three 18650 3000mAh rechargeable batteries.
2. Insert standard SD card.
3. Make sure both the insert tube and lens are straight before turning on the instrument. If the insert tube is curling up, steering operation is prohibited.
4. Power on.

P50 button and function interface diagram

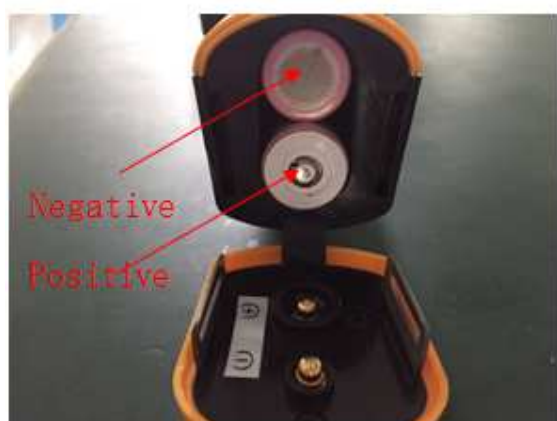


- ① On/Off
- ② SD card: Store pictures of JPG format and video of AVI. Without SD card, when you turn on the endoscope, "Require SD card" will be indicated on the screen
- ③ TV output: Connect the monitor
- ④ USB output: Connect and output data to PC
- ⑤ Playback/Preview: Photos and video's playback or preview
- ⑥ Setup Menu:
  1. Get into the operation of system setup while in real-time testing mode
  2. From system setup mode to real-time testing mode
  3. Get into file delete menu in *playback/preview* mode
- ⑦ Lock step: Lock step/Unlock follow, set up the lens movement
- ⑧ Rocker control: control the lens moving direction and angle
- ⑨ Photo: take photos and store the data in JPG format
- ⑩ Five directions of navigation: include navigation function and other auxiliary functions in different operation modes
- ⑪ Brightness adjustment: Adjust the fiber optic brightness of the lense
- ⑫ Speed adjustment: Adjust moving speed of the lense
- ⑬ Video: Take videos and store the date in AVI format
- ⑭ Function indicator: indicate the endoscope's running status

## Manual



## Battery installation



## Keyboard function



## ON/OFF button

1. Power-off state, long press it for starting.
2. Power-on state, click it for shutting down



## Menu button

1. Power-on state, Click it to enter Menu, Second click to skip out.

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## Probe lock button

1. Power-on state, Click it to lock probe, Second click to unlock.

Probe lock button



## Replay button

1. Power-on state, Click it to scan photo and video. Then press Mechanical Rocker to play video.

playback





## Photography/Video switch button

1. Power-on state, Click it to switch function between taking picture and recording video.



Photography/Video switch button

## Brightness button

1. Power-on state, Click the button to adjust the brightness level, there are 0-6 level adjustable.



Brightness button

## Speed button

1. Power-on state, click it to adjust the speed of the probe rotating, there are "fast" and "slow" adjustable.



Speed button

## Multi-functional Mechanical Rocker

1. Power-on state, Operate joystick to switch direction of probe.  
2. Real-time inspection, Press button of joystick to lock probe. (Same function with lock button)  
3. It can be a enter key in menu options window.



Multi-functional joystick



## Photography/Video button

1. Power-on state, Click it to take photo or record video.
2. In video mode, press it to start record video, second press to stop.



Photography/Video ergonomics

## Emergency light button

1. Full Battery condition, click the button can be lit the torch light.

Emergency light button



## PC Connection

1. Use USB cable to connect PC, and pop up memory card tips, then you can scan documents.



## Battery Charging

1. When low battery, please take battery out and recharged by machine accessories-four slot charger. Please pay attention to the mark "+" and "-" of charger, battery installed backwards is prohibited.



## Parameter

Lens Diameter	Φ6mm/Φ8mm
Pixles	450,000 pixels
Image Resolution	Maximum:2048*1536/ three options
Bend control	Motor-driven 360° bend
Step Regulation	Step regulation between high-speed and low-speed bend
Angle of Field	120°
Depth of Field	10 ~ 100mm/50mm ~ ∞/5mm ~ ∞ ( optional )
Light Type	Rear-mounted optic fiber light guiding
Illumination	100,000lx at a maximum , adjustable
Bright Adjustment	Manual, six levels
White Balance	Auto white balance
LCD Monitor	Highlight 5.0" LCD screen
Language	English and other five languages

Photo/Video	JPG image , AVI video
Memory	standard configuration:8G SD card, support 32G at maximum
Data I / O port	USB port, TV out video signal output, support display connection
Insert Tube Length	2m/3m/4m/5m/8m/10m , accept customization
Bending Angle	≥150°
Insert Tube Material	quadruple-wall braided tubes of Tungsten alloy wire
Construction Material	Dropping-resisting alloy outer case
Camera Material	Titanium alloy
Protecting Device of Durability	Protecting device joint the host and wear-resisting tube , length: ≥120mm
Button	Setting、playback、photo/video、speed adjust、bright adjust
Light Add	Flashlight add on the host
Waterproof	Probe, line and the objective lens can withstand IP67 waterproof ( with inspection reports)
Working Time	≥3 hours
Host Weight	≤1.5kg ( with batteries )
Power Supply	Rechargeable lithium battery
Voltage	DC12V, 1A maximum current
Warranty	free charge for one year, life - long maintenance

**Operating Environment:**

Host System Operating Temperature	-10 ° C ~ 50 ° C, the LCD screen to be preheated below 0° C
Video Probe Temperature	--20 ° C ~ 70 ° C, 0 ° C the following should be reduced steering operations
Storage Temperature	-20°C~60°C
Relative Humidity	Up to 90%, non-condensing