



## Portable Video Borescope User Manual



### Dongguan Xintai Instrument Co.,Ltd.

📍 Add: Building F, No. 22 Yuhua Street, Hongye Industrial Zone,  
Tangxia Town, Dongguan City, Guangdong Province  
Postcode:523710

☎ Tel:+86-769-82612006

📠 Fax:+86-769-82612005

🌐 Website:www.hytechcn.com.cn

www.xintest.com.cn www.xintest.en.alibaba.com

HT-660

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## Introduction

This new Digital Video Recording Endoscope is a portable, hand-held, multifunctional inspection system featuring a 3.5 full color LCD screen with powerful recording capability. Users can capture images (JPG) or videos (AVI) on the TF card with up to 3 megapixels resolution for the images, 720P high definition for the videos (Through High Quality Linear Interpolation). The Wired Color Monitor can be detached from the unit for remote viewing and operating up to 1.5m away using a cable. With ergonomic and robust design, users can control all the keys with one hand easily, and the adjustable handle offers extra comfort. In addition, the stainless steel shield and overall reinforced structures ensure stability under heavy duty. The device has a slim 8.5mm diameter probe with 6 adjustable LED lights, high performance camera module offering crystal clear output. Furthermore, it has an integrated 1W CREE flash light for dark area working assistance.

## Features

- View live inspection video instantly on the 3.5 in. (88.9mm) QVGA color LCD screen.
- Up to 3 Mega Pixels resolution for image capture, 720P high definition for recording videos.
- 4x zoom and 360° image flip monitor.
- 8.5mm diameter camera with high sensitivity for low-light VGA camera chip in the tip.
- Wired Color Monitor can be detached from the unit for remote viewing. Can be operated up to 1.5m away with a cable.
- 1W Cree flash assisting dark area work.
- Adjustable handle and screen.

## Applications

This premier tool is an economical solution for:

- Automotive/Diesel Repair and Maintenance.
- Inspection of hard-to-reach area or equipment.
- Plumbing, construction, restoration applications.
- Science Education.
- Outdoor Exploration.

**WARNING!** Please read all safety warnings and all instructions before using this product. Failure to follow the warnings and instructions may result in electric shock, fire and serious injury.

## Safe and Warning

- Keep the tool dry,clean,free from oil,water,gas or other materials causing corrosion.
- Keep work area clean and well lit.
- This appliance is not intended for use by persons with limited physical, sensory or mental capabilities.
- This appliance is not intended for medical use or personal inspection.
- Keep bystanders, children away while operating the tool.
- Do not overreach, keep proper footing and balance at all times.

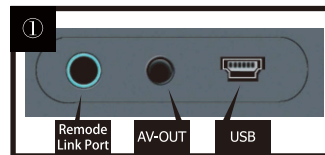
## Batteries

- Use only Alkaline or Ni-MH AA batteries.
- Replace batteries when the LED indicator turns red.
- Remove the batteries when the product is not in use.

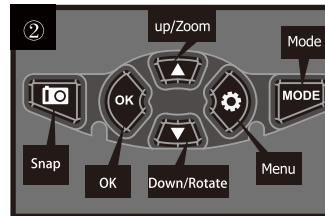
## Maintenance

- Always keep the camera lens clean.
- Should any other components not mentioned need to be replaced,please contact our service agents.

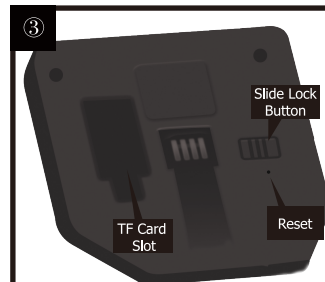
## Product Description



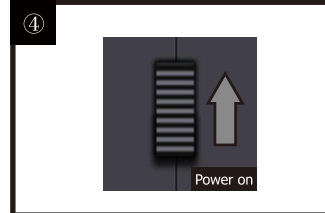
- \* **Separate control port:** Used to connect an external control equipment
- \* **AV-OUT:** Connect display equipment
- \* **USB:** Connect computer



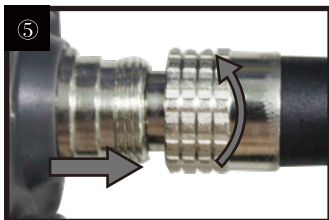
- \* **Photograph and video:** Press this button to shoot
- \* **Confirmation:** The confirm button after a part of setting
- \* **Up/Zoom:** Up function, zoom lens when take photo
- \* **Down/Narrow:** Down function, narrow lens when take photo
- \* **Menu:** Setting function.
- \* **Model:** Photograph / video / playback, Switch between three modes



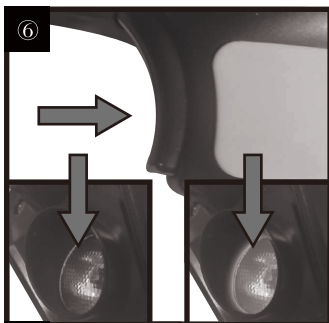
- \* **TF card slot:** Used to install TF memory card
- \* **Scree separation lock catch:** Used to take down screen
- \* **Recording:** recorder location



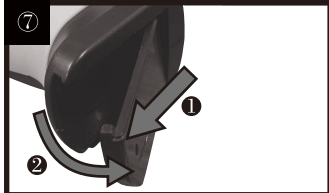
Slide this pulley, it will be power on when slide up a little, power off when slide down a little. Continue to slide up will open the light in the front of camera and brighten little by little. after open the light, the light will darken little by little and close when slide down.



\* Firstly, connect the lines, then put the coiler insert to connector, upward can be tighten up, make it more firmly.

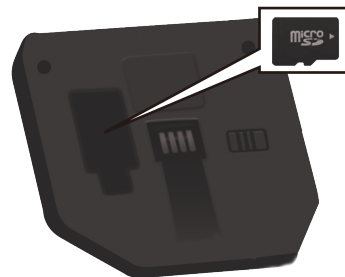


\* Press this button, can open or close the front light.



1. Push the battery cover in outward  
2. Then turn around to open the battery cover

## TF card

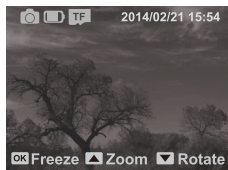


Insert card: Power off the device, open the cover on the backside of the monitor and insert the TF card according to this chart.

- ⚠ Please make sure the device is power off before operating the TF card.
- ⚠ Please operate gently.



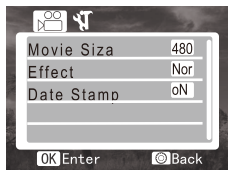
- ① Mode: Photo Snap/Video record/Playback
- ② Battery Status: Full/Middle/Low/Empty
- ③ TF Card Status: Card Plugged in/ No Card
- ④ Time and Date
- ⑤ Operation tips



Click **Freeze** in Photo/Video mode to snap photos or record movie clips.



Click "MODE" button to switch the mode Photo **Video** **Playback**

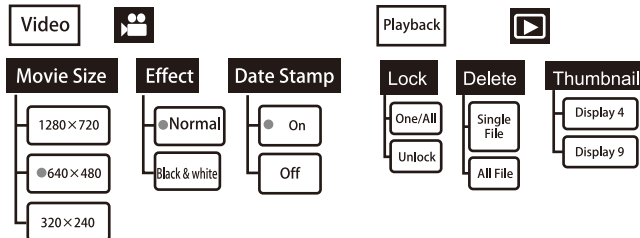
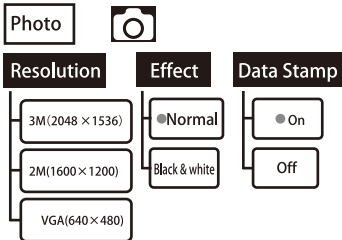


Click **Settings** to enter Photo settings in Photo Mode or Video settings in Video Mode, click "MODE" button to enter General Settings.  
Click "UP" "DOWN" button to select and "OK" button to save changes.



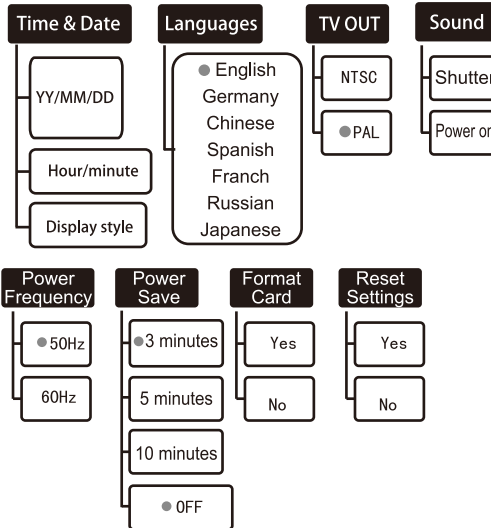
## Screen Menu

Click **Settings** to enter the menu to change setting. Default setting:



## General Settings

Click **Settings** and the MODE button to enter General Settings.



# Specifications

## Monitor

Screen Type:3.5 in. (88.9mm) Color LCD

Resolution: 320\*240pixels(QVGA)

Rotation: 360°rotation

Video Recording Resolution:320\*240,640\*480,1280\*720(Pixels)

Image Capturing Resolution:640\*480,1600\*1200,2048\*1536(Pixels)

Menu languages:

English,Germang,Chinese,Spanish,Franch,Russion,Japanese

Port:Remote connect oort;AV-out,USB,TF card slot

## Camera

Diameter: 8.5mm

Shaft Diameter: 7.0mm

Shaft Length: 100cm (Optional)

Resolution: 2000K pixels VGA

Viewing angle: 60°

Depth of Field: 80mm-infinity

Light Source: 6adjustable high-intensity LEDs

## Other

LED Flash light: 1W CREE LED

Operating Temperature:32°to 113°F(0°to 45°)

Power Source:4\*AA battery

Max battery life:4--5hours

Weight: 435g

Certifications:CE FCC RoHS

## Contents

Digital Endoscops

User's Manual

Prode(  $\varnothing$  8.2mm)

Accessories-pick up hock and magnet

Remote connect cable

Video-out cable

Custom Hard Case

## Packaging Information

H:360mm

W:400mm

D:130mm