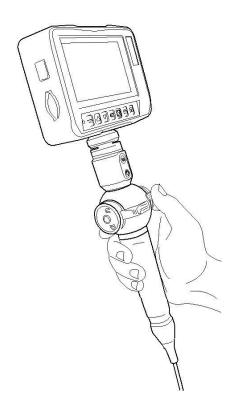
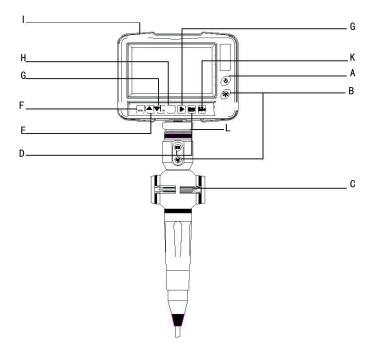
Articulation Monitor Type Endoscope

INSTRUCTION MANUAL



Please carefully read this manual before using

Parts Function



A.POWER BUTTON On/Off	E . PREW BOTTON	I . MAIN UNIT
B.LIGHT SWITCH	F. MENU	G . PLAY BACK
C.JOYSTICK	G . NEXT BUTTON	K.REC BUTTON
D.PHOTO button	H . MULTI - SELECTOR OK	L. LOCK NUT.

Safety recommendations



- This device must not be used for medical or veterinary purposes.
- Do not use this item in explosive atmospheres.



- Do not modify or disassemble the unit.
- Do not subject the insertion tube or other cables to strong pulling, and do not move the main unit around by holding the cables. Otherwise, the insertion tube or cables may be damaged
- Do not subject the distal end to severe impact or pulling, do not expose the angulation section to severe impact or bending. Otherwise, the precision components that make up the distal end and the angulaion section may be damaged.
- Do not allow any liquids other than water, saltwater, machine, or diesel oil come into contact with the insertion tube, Otherwise, the insertion tube may be damaged.
- Do not allow water come into contact with parts other then insertion tube, water creates the risk of electic shock, the parts of the instument other than insertion tube are not watertight, so the instrument should not be used or stored where it is submerged or wet.
- Do not use or store the instrument at a temperature higher than 60° C or lower than -20° C.
- Store the instrument in dry and adequately ventilated environment.

Button Description

There are 3 basic modes for easier operations as follows:

Preview mode	Display summarized optional functions such as: picture taking, video taking etc.		
Surfing mode	ode Survey photos and videosin the memory card ansd maintain.		
Meun mode	de Includes file maintenance , settings etc .		

Button	Preview mode Zoom x4	Surfing mode Switch to previous/next photo or video	Menu mode Select previous/next function or option
	To return to the	To return to the	To return to the
MENU	preview mode	preview mode	preview mode
ОК		To display or pause	Confirm selected function or option
-	To take photo		
_	To start / stop video		
•	To enter surfing mode	Return to preview mode	Choose camera or maintenance settings

Menu

Under the preview mode: Press MENU button to display options

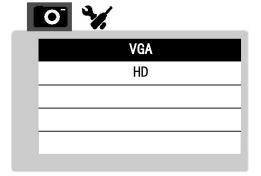
as follows:



Use

0r

▼ To select the item , and enter the options display respecively as below:



VGA Mode:

Image display at 3. 5inch area.

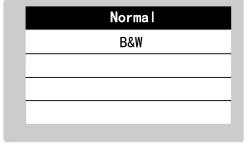
HD Mode:

Image full of screen .

ок Enter

MENU Back





You can choose the image with colour or without colour.

ок Enter

MENU Back



Date

Date & Time

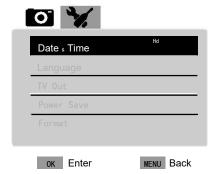
Date stamp can be added to recording files or not.

0K Enter

MENU Back

Menu

Press Menu button return to menu mode, and by ▶ to set more options as below:



DATE/TIME SETUP

Press ▶to select year/ month/day or hour/ minute/ second, and press increaseing number and decreasing.





LANGUAGE SETUP

To select language (7optional languages)



TVOUT SETUP

To set up the TV output format.



To set up time for auto power off.



FORMAT & RESET All

Choose Yes to format storage media SD card or return to original settings



Turning on checking

Press Power button for 2–3 seconds to turn on , the displays preview mode. Adjust illumination and extend the insertion tube straight out and operate joystick to check for smooth angulation section operation.

Increasing the insertion tube bending amount decreases the maximum the angulation angle. Keep the insertion tube as straight as possible to get best operations.

Operation

Photo O	Press to take picture, After this operation, automatically switch back preview mode.
REC 🔐	 Press for video recording. The icon corner to indicate recording status. Press to stop recording. The icon disappears accordingly.
Zoom	In the preview mode press to get enlarged x1/x2/x3/x4 view of observation object ,
In the preview mode press	

Storage & Maintenance

1.Rechargeable battery

Charging time around 7 hours till the indicator light turn off , the fully charged battery can continuously works up to 8 hours.

2 Cleaning components

Cleaning insertion tube

Wipe thoroughly with a piece of gauze or other material moistened with neutral detergent, next clean by gauze moistened with clear water, and then wipe the insertion tube dry off all moisture.

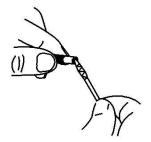
Clear the insertion tube immediately after withdrawing the insertion tube. Leave the very dirty insertion tube for long periods can cause it to be corroded.

Cleaning distal end

Grasping the rigid portion of distal end, use a clean soft piece of gauze or cotton swabs to wipe off dirty and water. Best results may be obtained using commercially available absolute ethanol.

_ , _

Storage & Maintenance



- Cleaning unit body
 Wipe with soft cloth dampened with clean water, and wipe with clear
 and dry cloth.
- 3 Storage precautions
- Store the instrument under normalroom temperature and humidity.
- Unload the battery, and straighten angulation section while lay into carrying case.
- Store the equipment at a clear, dry and stable place.

Q & A

Q: No image on the screen after turning the power on

A: Battery is exhausted. connect the main unit to the power adapter and recharge ,

Q: No image ,only words on the LCD monitor after turning the power on

A: Check that the control unit is correctly connected to the display main unit.

Q: Unable to take photo or record video

A: SD card absent ,wrongly inserted, full or faulty.

Q: Shut down

A: When all functions freeze or fail, insert an insulated needle into the hole on the side of the main unit ,the system will restart automatically

Sepcification

LCDPanel4.3inch(Image display at 3.5inch area with W&B sensor)		
Input/output connector	MicroUSB. DC in .TV out	
Power supply	Lithium battery 3000mAh AC adapter :Input 100-240VAC 50/60Hz, Out put 5VDC	
Recording media	SDHC Card support 32 GB	

Distal end & Camera

camera	Articulation	Sensor	Rigid portion	Remark
8.5mm	4-way	640x480	Dia8.5X28mm	Far focal IR camera ómeters away visible at complete darkness
8mm	4-way	640x480	Dia8.0X28mm	Far focal
8mm	4-way	1080x720	Dia8.0X28mm	Near focal
5.5mm	4-way	640x480	Dia5.5X23mm	Near focal
3.9mm	4-way	640x480	Dia3.9X14.5mm	Near focal
2.8mm	2-way	400x400	Dia2.8X10mm	Near focal