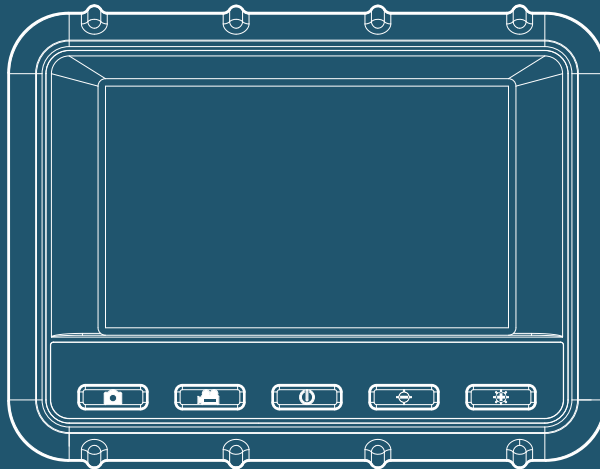
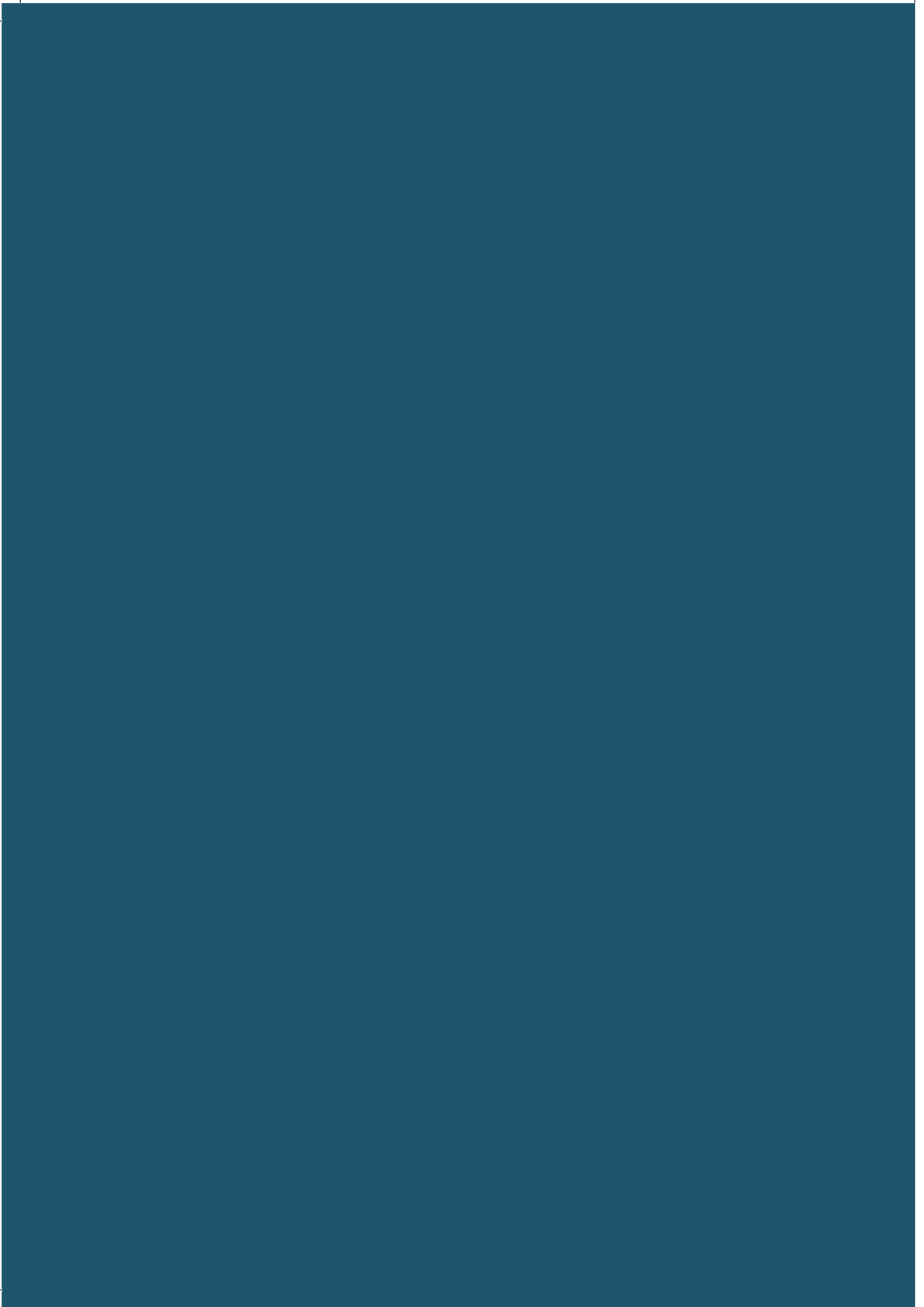


# X500

## VIDEOSCOPE SYSTEM User Manual



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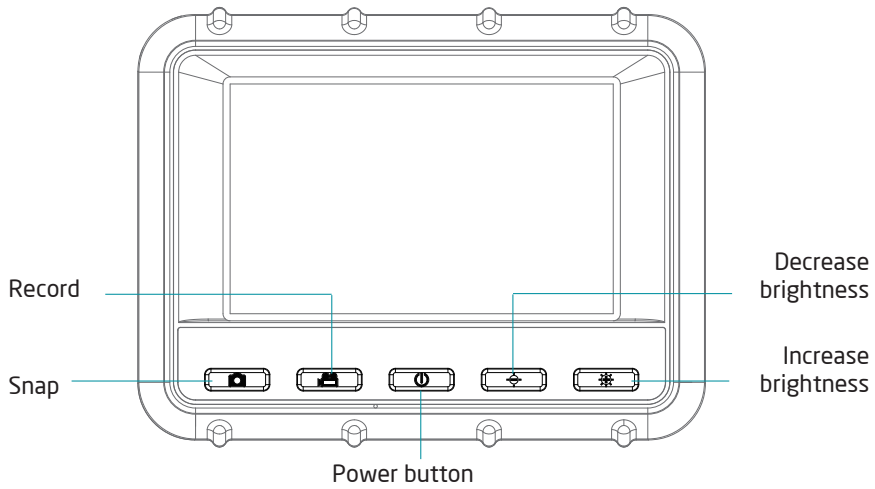
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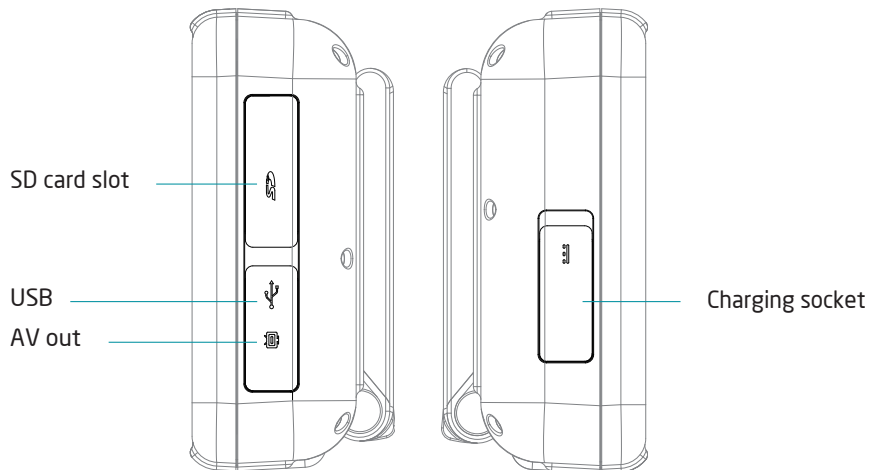
# Product Outlook

X500

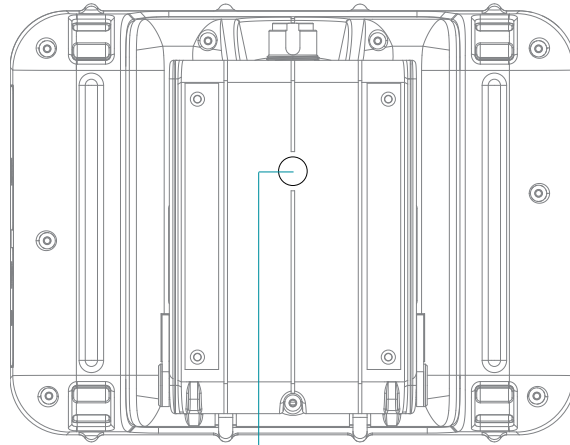
FRONT VIEW



SIDE VIEW

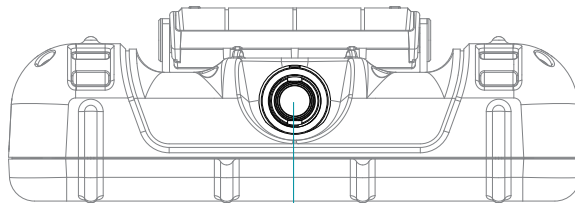


## BACK VIEW



Threaded hole for tripod mount

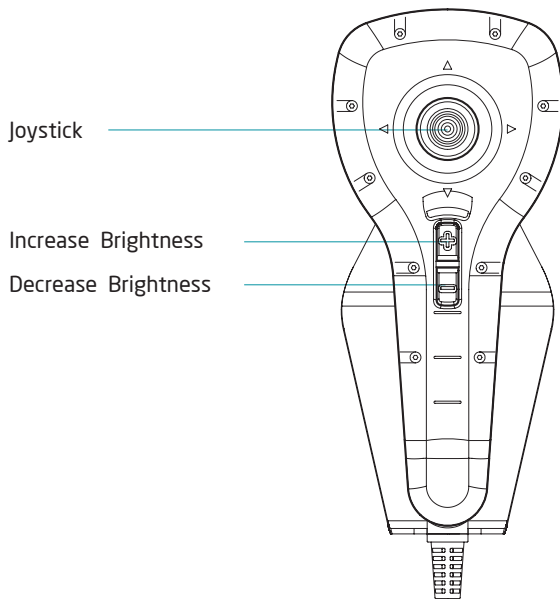
## TOP VIEW



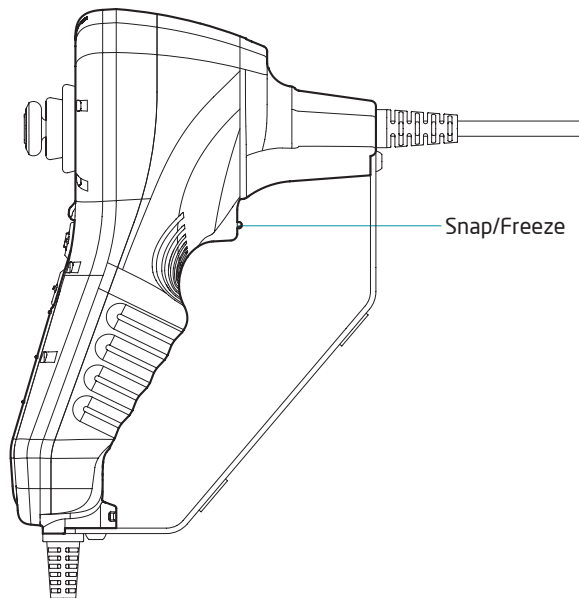
Insert tube connector

## 360 ARTICULATION TUBE

### FRONT VIEW

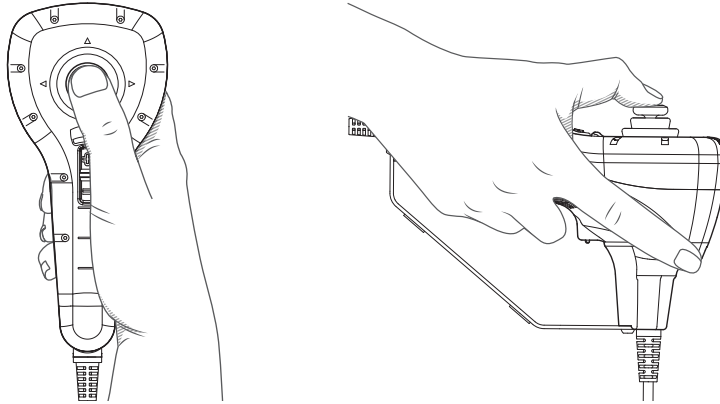


### SIDE VIEW

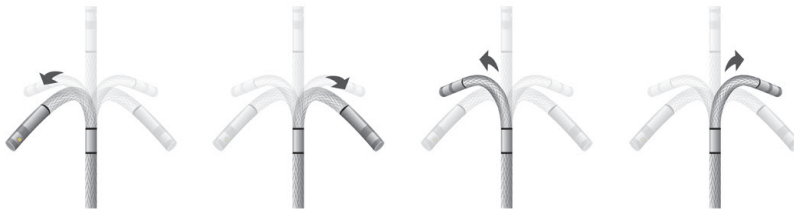


## Frequent operations



Generally, use your thumb to control the joystick, and use other fingers to grip the handle.




## The joystick operations



## Capture images

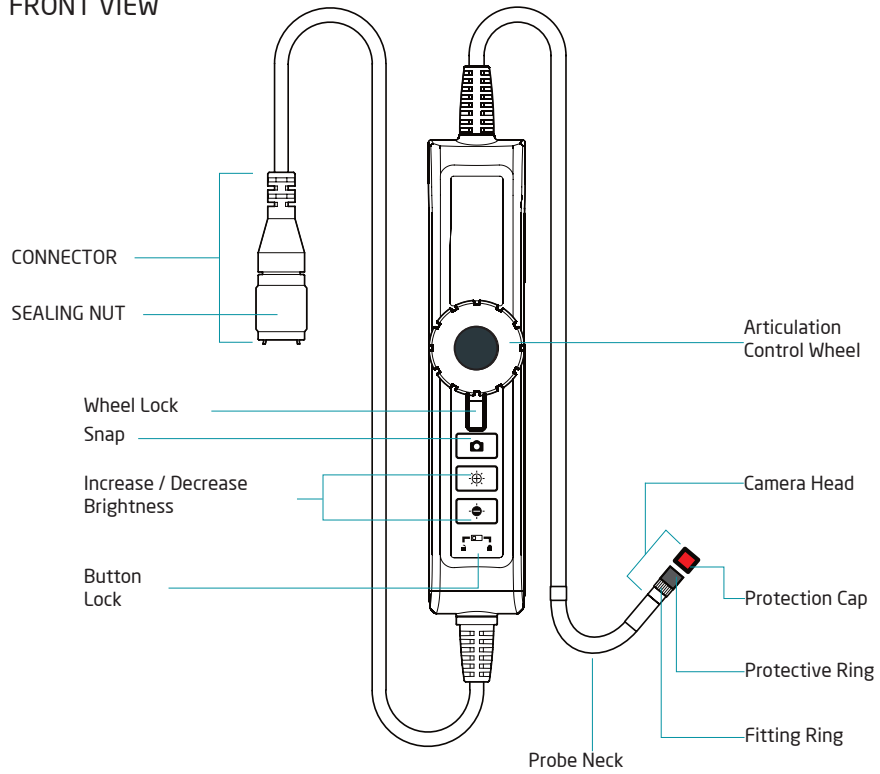
- Press  to capture desired image.
- Hold  to keep freezing the frame.

## Adjust brightness

- Press  increase brightness
- Press  decrease brightness

## TWO WAYS ARTICULATION TUBE

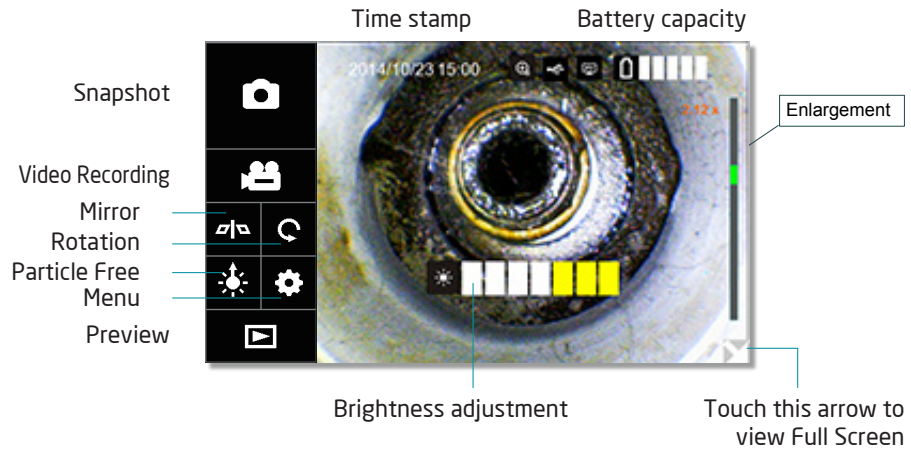
### FRONT VIEW



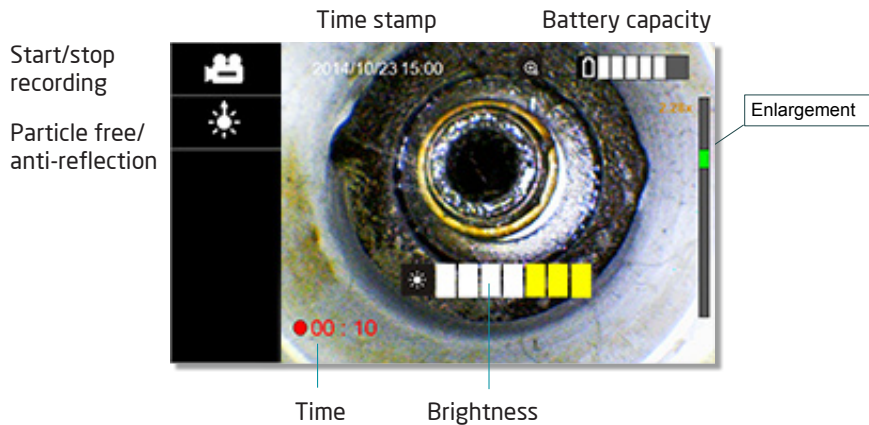


# Getting Started With Touch Panel

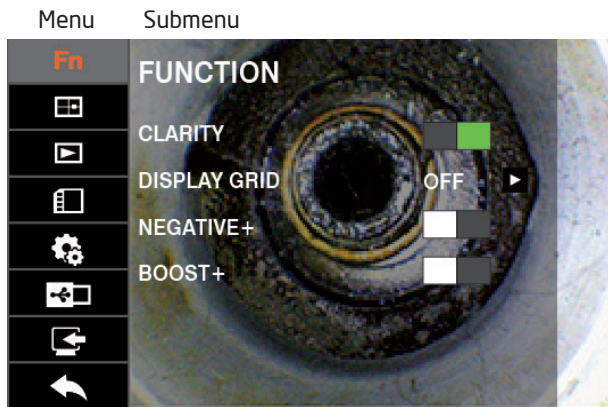
When system turns on (with insert tube connected ), it's ready to start the inspection.



## Video Recording



## Function Menu

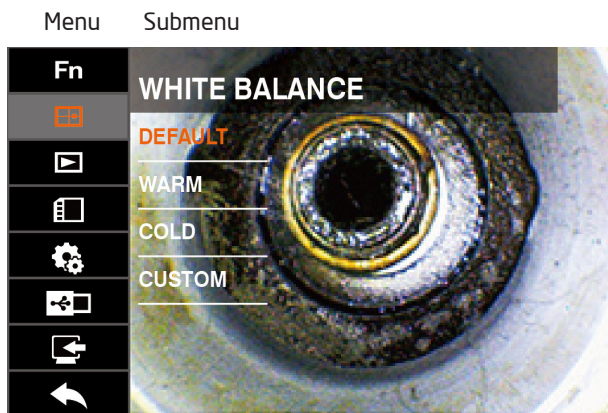


CLARITY : To enhance image edge

DISPLAY GRID: To measure the size of sophisticated object, m/ft switchable

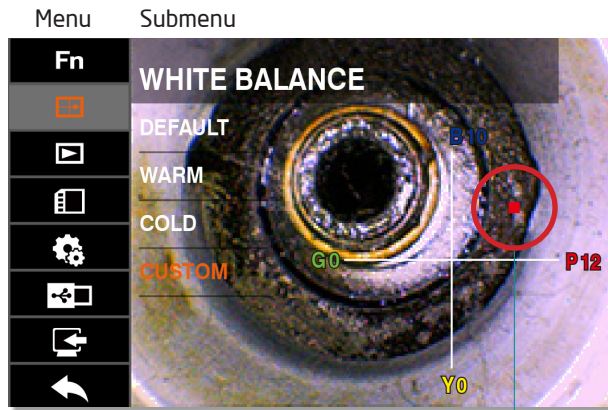
## White Balance

- DEFAULT



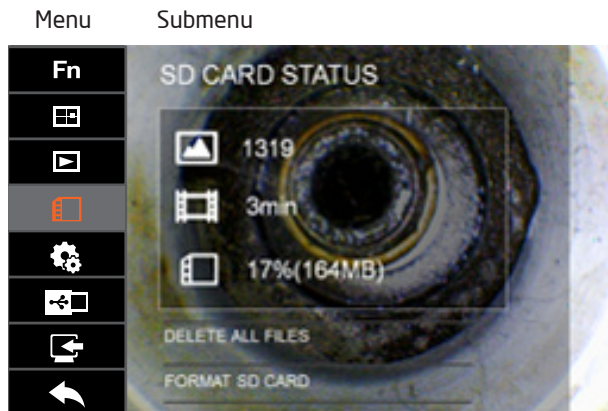
## White Balance

- CUSTOM









Hue adjustment

## SD Card Status

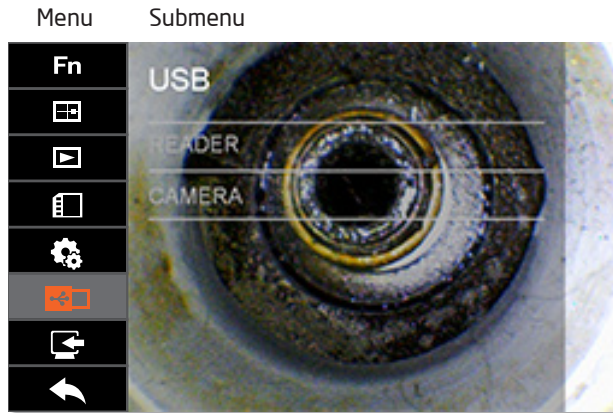


## Settings Menu

Menu	Submenu
<b>Fn</b>	<b>SETTINGS</b>
	LANGUAGE ENGLISH
	SYSTEM TIME 2014/10/23 17:00
	FORMAT YY/MM/DD
	TIME STAMP OFF
	AUTO POWER OFF OFF
	REPEAT RECORDING OFF

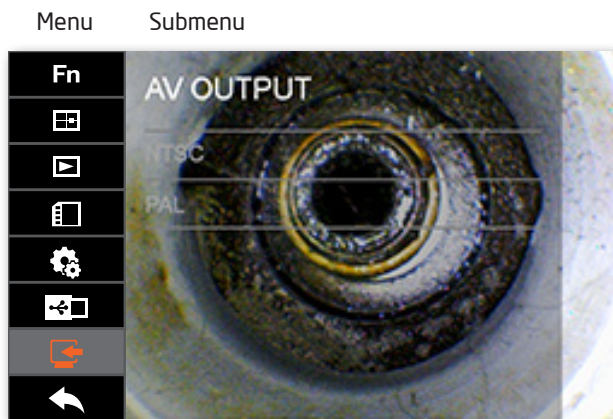
LANGUAGE	set up operation language
SYSTEM TIME	set up system time
FORMAT	display form at yy/mm/dd, dd/mm/yy, mm/dd/yy
TIMESTAMP	set up time stamp
AUTO POWER OFF	set up system off time : OFF/5/10/20/30(minutes)
REPEAT RECORDING	set up record restart time : OFF /5/10/20/30(minutes)

## USB Menu



Reader: Connect PC to read the data stored in the SD card  
Camera: Connect PC to share real-time inspection status

## AV Output Menu



Connect the X500 system to TV ( NTSC or PAL )

## Browse photo/Video

### - PHOTO

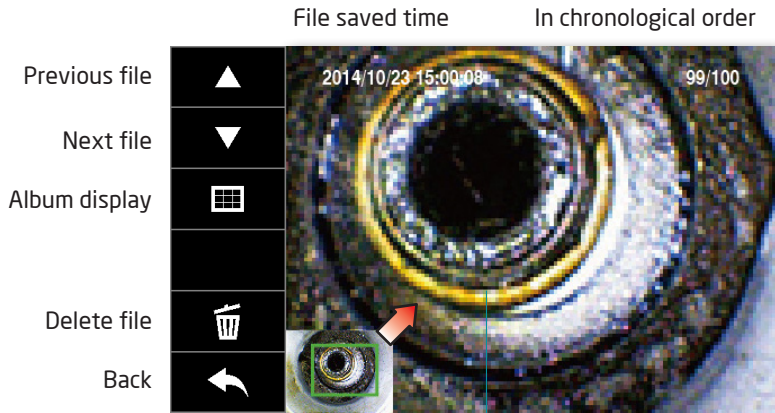
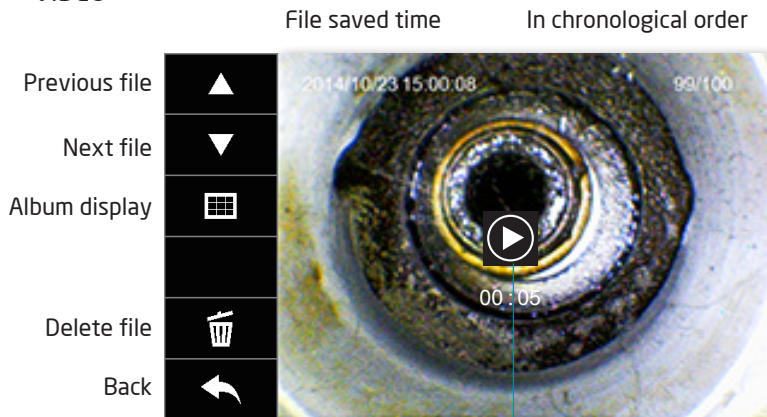


Image enlargement :

You can move the image to view picture details in green box

### - VIDEO

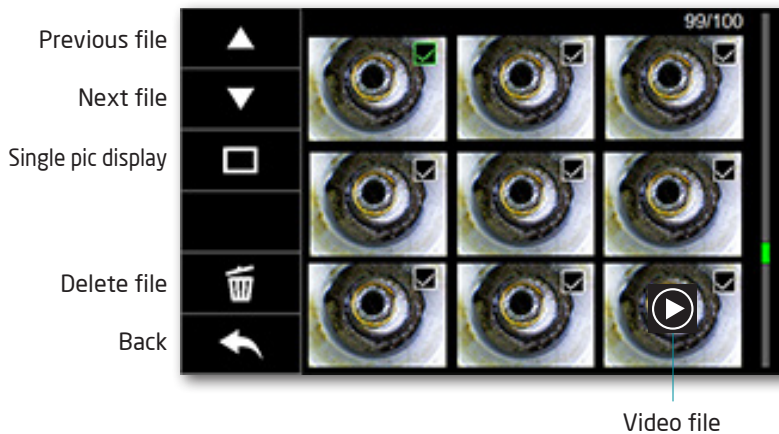


Touch to play video

## Video Play














## Album play



To view certain file, check and click; to delete files, check and put them in the trash can

## Function Keys

Functions	Button	Touch Screen icon	Note
Snapshot			Take picture
Recording			Video record
Preview	Power button		To enter preview mode and check photo/video files
Brightness	LEFT/RIGHT	Slide light bars	Touch screen and slide the light bars to adjust
Image Mirror	N/A		Horizontal flip
Image Rotaion	N/A		90° counter clockwise rotation
Particle-Free	N/A		1.To eliminate reflection or dust (while work with side view mirror) When using side view mirror. 2.You can also turn off the LED if it's bright enough
Menu			languages, date/time ... basic operation settings
Full screen operation	N/A		On the bottom right of the screen, touch to get full screen (won't keep in proportion)
Image enlargement	N/A	Use fingers to enlarge and reduce images	To enlarge the image (Zoom in)
Battery capacity	N/A		Touch screen and battery capacity will show up



# Maintenance

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## CHANGING PROBE


In case of probe is malfunctioned and need to be replaced with a new one, follow below procedure to calibrate the probe to reach it's fully performance.

To change the probe:


- Turn off the system.
- Screw loose the sealing nut, remove the malfunctioned probe from system.
- Connect the new probe, make sure the indication point on both connector is matched, screw tight the sealing nut.

## UPGRADING FIRMWARE

To check the current firmware version:

- Turn off the system
- Press and hold both  and **ESC** simultaneously to enter factory mode.
- Select <information>
- The firmware information will be displayed.

To update firmware:

- Turn off the system.
- Copy the firmware file to a SD card, then put inside the system.
- Press and hold both  and **ESC** simultaneously to power on and the system will start updating procedure automatically.
- When firmware update is done, the X500 videoscope system will power off automatically.

\*\* Please always have insert tube connected when you update the firmware\*\*

## WEEE Notice

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- The cross-out wheeled bin symbol indicates that according to the European Directive 2002/96/EC on Waste Electrical and Electronic Equipment, this product must be collected in a separated way instead of being disposed of as unsorted municipal waste.
- Contact your local dealer for procedures of recycling this equipment.

## FCC Notice

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

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

### Federal Communications Commission Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

## RoHS Notice

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The F1000 Videoscope System is in conformance with the requirements of the European law on the Restriction of Hazardous Substances (RoHS) directive. This means that our product is both lead-free and without the hazardous substances either in the manufacturing process or in the final product.

## Chemical Compatibility

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All insertion tubes made by Mitcorp had passed following liquid immersion test:

- Water
- Engine oil
- Brake fluid oil
- Gasoline
- Diesel Fuel
- Transmission oil

## Legal and Other Notices

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This Mitcorp product is warranted to be free from defects in material and workman shop for 1 year from the date of purchase. Mitcorp agrees to repair or replace the product, at its own option and at no charge. This warranty shall not apply to any product, which has been subject to connect to a faulty accessories, alteration, negligence, accident or to any product which has been installed other than in accordance with these instructions.

Warranty is subject to void under unauthorized attempt to disassemble the system unit, insert tubes or modification of any kinds, even attempted only, of the system. Mitcorp will not be responsible for damages caused by following situations:

- Defaced, modified or removed serial number label or warranty seal
- Modifications of components without Mitcorp's authorization
- Damages caused by natural phenomena or uncontrollable forces, such as lightning, flooding, fire, earthquake...etc.

## Cautions for Use

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- This product is designed for industrial use only. Do not use the system for human or biological inspection.
- Do not use the product in medical facilities, airplanes or environment with explosive atmosphere like fuel tank or other dangerous environment such as a gasoline or alcohol storage tank.
- Do not use any corrosive liquid for cleaning, such as alcohol.
- Do not try to disassemble this product, it might cause damage or electric shock .
- Please use only recommended components or accessories. Unapproved accessories and components may cause damages.

## Specifications

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### X500

Features	Description
Dimensions	160mm x 120mm x 55mm
Weight	745g
Display	5" TFT LCD (VGA), 800x480 resolution
Power	Rechargeable Li battery Power consumption DC 5V 3A
Waterproof	Can be operated in rain
Video out	NTSC & PAL / AV OUT
Storage	SD card(SDHC), up to 32G
Video / Photo file format	.avi / .jpg, 640 x 480
Working temperature	0°~ 60°C
Storage temperature	0°~ 60°C
LED indicator	Green LED : Power On Red LED : Charging System

### 360 ARTICULATION TUBE

Features	Description
Probe head diameter	6.0mm
Tube length	2m / 3m
Articulation angle	110°
Articulations	Full ways
LED	Front / Side
Button	Snapshot / freeze, Brightness control
Water proof	Can be used under water (tube only)
Working temperature	0°~ 60°C
Storage temperature	0°~ 60°C
Weight	730g / 800g

## 2 WAYS ARTICULATION TUBE

Features	Description
Probe head diameter	6.0mm
Tube length	2m / 3m
Articulation angle	>120°
Articulations	2 ways
LED	Front / Side
Button	Snapshot /LED + / LED -
Button lock	Lock up button functions
Water proof	Can be used under water (tube only)
Working temperature	0°~ 60°C
Storage temperature	0°~ 60°C
Weight	390g / 440g



