

360° Articulation Probe

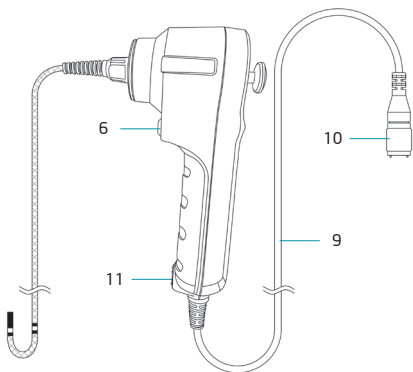
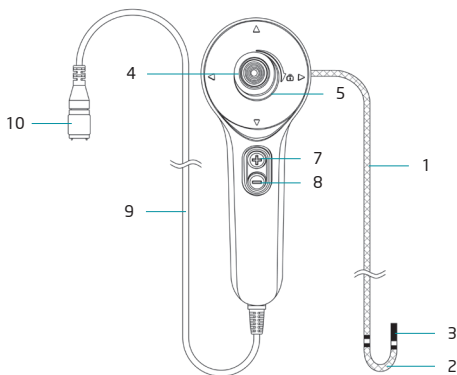
User Manual



Contents

Product Outlook.....	1
Getting Started.....	3
Operations.....	5
Function buttons.....	6
Specifications.....	7
Cautions for use.....	8

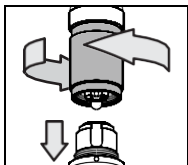
Product outlook



1. **Probe** - To guide camera head to inspection area.
2. **Bending Neck** - To bend camera to change view angle.
3. **Camera Head** - Lighting and image capture.
4. **Joystick** - To articulate the probe bending neck.
5. **Joystick shaft lock** - To lock bending neck angle.
6. **Snap shot button** - Short press to take picture. Long press to record video.
7. **Brightness+ button** - Ideals of extremely dark environment inspections.
8. **Brightness button** - Reduce brightness.
9. **Connecting Cable**
10. **Connector**
11. **Tripod screw hole**

Getting started

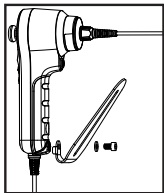
Step1: Connect Articulation probe to main system with align dot then tighten the screw nut.



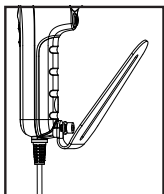
Step2: Turn on the system until the image is displayed.

Step3: After the system is turned on, you can start your inspection.

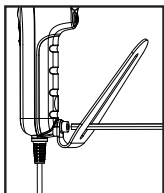
Step4: Assembly / Disassembly the stand plate. Please follow the below instructions:



Find and check the stuff from your product package include:
stand plate*1; Hexagon socket screw*1;
Screw washer*1.



Align the notch of stand plate hole to the hand grip screw hole. Loosely attach the screw and washer on it.

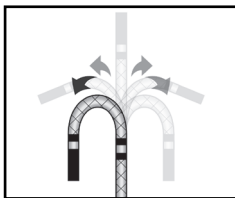
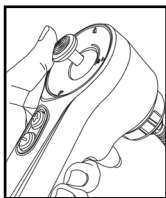


Suggest to use hex wrench (3 / 16 inch) to fasten the screw.
You may disassembly it by reverse method.

Operations

Articulation

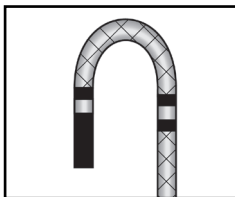
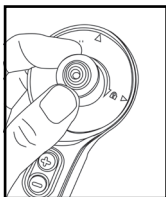
Full way articulation controlled by steering the joystick.



CAUTION: Do not strike the joystick horizontally or use any tool grabbing the stick head for articulate operation.

Lock

To lock bending neck angle, rotate the joystick head clockwise (maximum 180 degree). Under lock status, the joystick / articulation can move and fix at any angle.



CAUTION: The lock-unlock rotation operation range is about 180 degree (12-to-6 o'clock position). You can feel the tension when closing 180 degree. Do not try to overdrive it both around 12 and 6 o'clock position.

Function buttons

Snapshot button

Press Snapshot button to take a picture, the picture will be saved in the SD card automatically. (Please check SD card status before taking pictures)

Brightness+ button



* live image



* brightness+

Brightness- button



* live image



* brightness-

Specifications

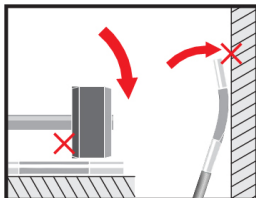
3.9mm 360° Articulation Probe

Probe head diameter	3.9 mm
Probe head length	17 mm
Probe length	1.5 m / 2 m
Articulation angle	Full-way 180°
Probe head material	Stainless steel
Probe material	Outer braided Stainless steel
Light source	Front 4 LEDs
FOV	90°
DOF	10 mm~100 mm
Button	Snapshot / Video, brightness+, brightness-
Working temperature	-10°C~60°C
Storage temperature	If the system is kept for a long time (3 months or more), it is strongly recommended that the system is preserved at dry and low-temperature (approx.20°C)
Resolution	1920x1080 (.jpg photo / .mp4 video)
Waterproof	Camera head - IP67 level
Compatible base unit	X600; X600 PLUS

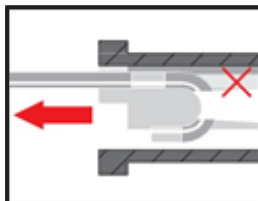
Cautions for Use

- To avoid danger, do not put the insert tube into any flammable liquid or gas.
- The insert tube contains a series of small wires that control the optics and electronics of the camera tip. To ensure reliability, do not bend the insert tube more than 90°, and always keep the insert tube in a large arc as possible for storage.
- This product is designed for industrial use only. Do not use the system for human or any other biological inspection.
- Do not use any corrosive liquid for cleaning, such as alcohol.
- Do not try to disassemble the product, it might cause damage or electric shock.
- Please use only recommended components or accessories, unapproved accessories and components may cause damages.
- Avoid direct sun exposure and store the system in a cool, dry and well-ventilated place.
- The cover plate of the joystick may fall off when the console occasionally drops down. You can directly assemble it by the latches.

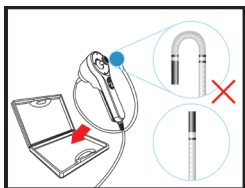
Bending neck is composed with precision components, DO NOT put under heavy load on this.



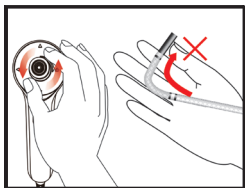
Never use the bending neck as a HOOK.



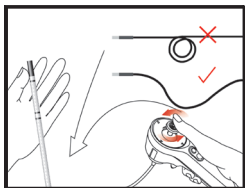
Please straighten the bending neck every time before storage.



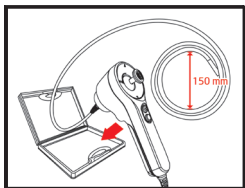
NEVER bend the bending neck with hand, operate by control wheel only.



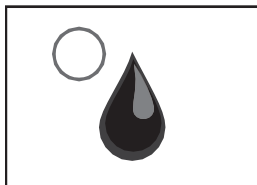
Please keep the insert tube straight while in use.



Do not bundle the insert tube less than a 15 cm circle while not in use.



Liquid immersion passed: unleaded gasoline, diesel, machine oil, brake oil, transmission oil, and water.



Use cleaning liquid and swab provided in the cleaning kit for camera head cleaning.

