

Two Way Articulation Probe

User Manual



hyperion®

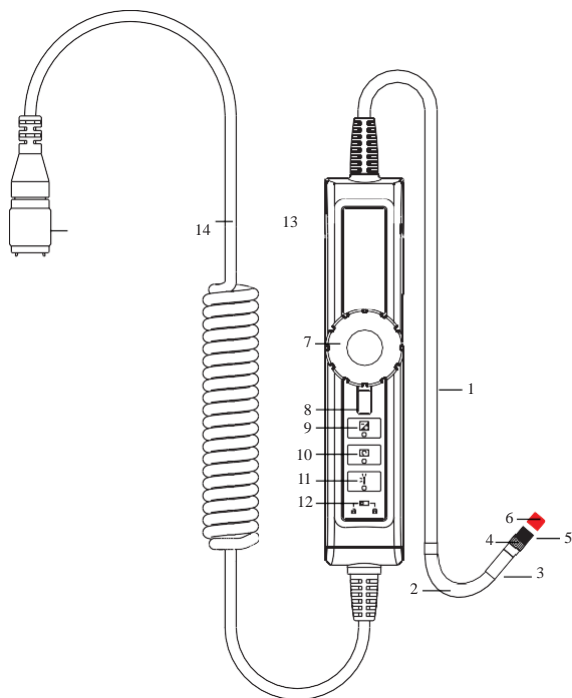
HYA60701/02/03(Wired)

WHYA60701/02/03(Wireless)

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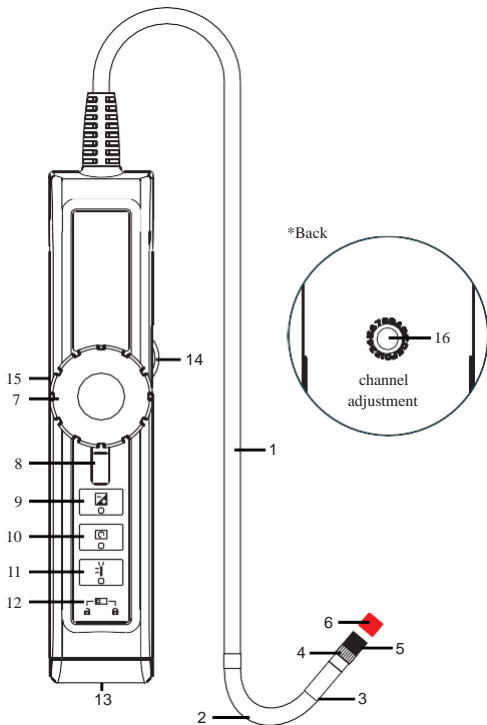
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Product outlook (wired model)



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. **Fitting Ring** - Fix and fit accessories
5. **Thread Protective Ring** - Thread protection
6. **Red Cap** - protect camera head while not in use
7. **Control Wheel** - To adjust bending neck angle
8. **Control Wheel shaft lock** - To lock bending neck angle
9. **Boost button** - Using in dark environment to enhance the brightness
10. **Rotating button** - Pressing once, the screen will rotate counterclockwise 90° with red LED on. The light will be off while back to the original position
11. **Particle free button** - The button works with mirror to enable particle free function
12. **Lock** - To lock up button functions
13. **Connecting Cable**
14. **Connector**

Product outlook(wirelessmodel)

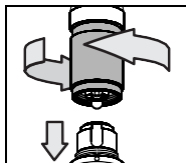


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12. **Lock** - To lock up button functions
13. **USB Port** - To charge the battery.
14. **Light Adjustment**
15. **Power indicator**
16. **Channel adjustment**

Getting started

For wired model

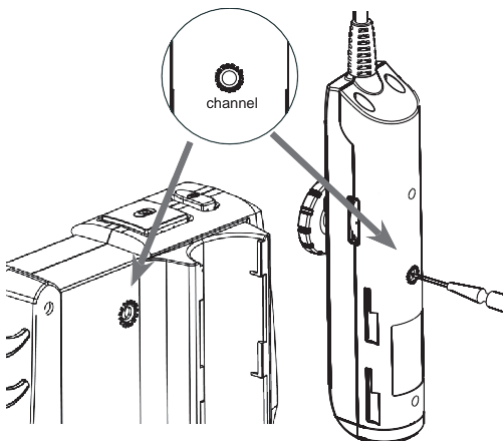
Step1: Connect Articulation probe to main system with align dot then tightenthescrow nut.



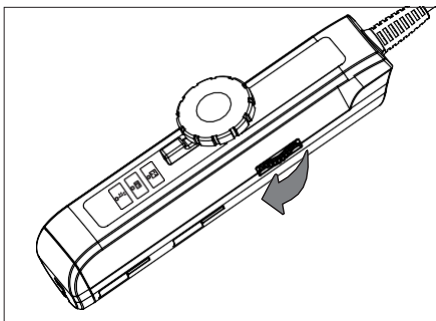
Step2: Turn on the system until the image is displayed.

For wireless model

Step1: This articulation handle must use the same channel as the main system during wireless transmission. You can adjust the channel by using a small slotted screw driver following the direction of the arrow shown.



Step2: To activate the articulation probe, turn on the LED adjustment dial on the right hand side of the handle, roll up/ down the wheel to adjust the brightness .To turn off this articulation, just roll up this wheel until you hear a "click" sound.



Step3: After the system turns ON, You can start your inspections.

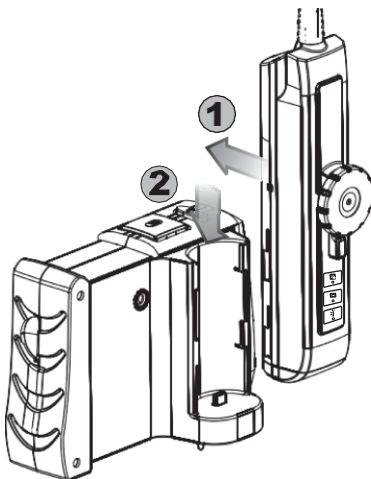
Charging the battery

Insert the handle into the rear bottom slot of the system to re-charge both units simultaneously.

You can also charge the articulation probe alone through USB, form your PC/laptop. Simply connect the handle to a PC or Laptop using a standard Mini USB cable to charge.

Cautions

Ensure the power of PC / Laptop is powered on while charging the anticulation probe, and Ignore the “found new hard drive ”message on the screen.



Reference chart for power indicator status

Light	Indication	Status
Green	In use	Battery full
DarkRed	Low battery	Please charge the battery immediately
Orange	Charging while in use	Charging while in use
Red	Charging while power off	Charging while power off
None	Full battery (During power off)	The light off when the battery is fully charged

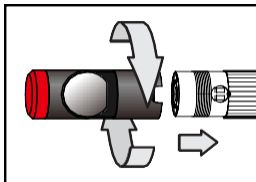
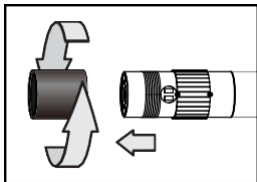
Installing Accessories

Mirror

Step1: Rotating out thread protective ring Step2:

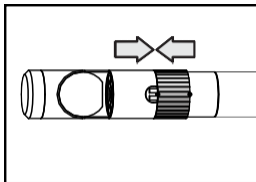
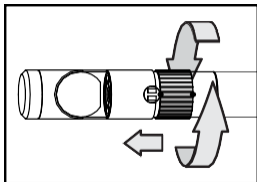
Rotate fitting ring to bottom

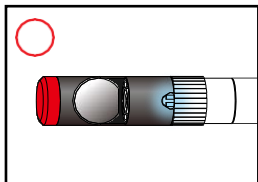
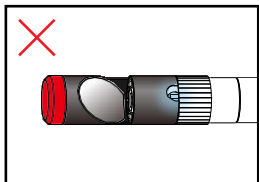
Step3: Put the mirror into camera tip till the threading is screwed tight



Step4: Align side LED opening with mirror adaptor. The mirror adaptor need to fit in side LED opening

Step5: Rotate fitting ring upward to fix and tighten mirror



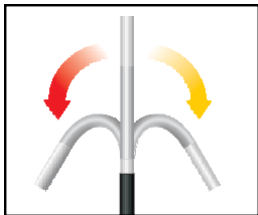
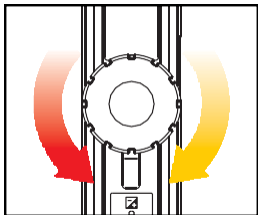


NOTE: You might repeat step 4-5 to adjust the mirror adaptor if the LED light is shaded.

Operations

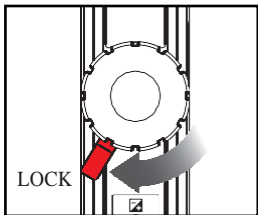
Articulation

Rotate the control wheel clockwise to bend tip right, counter clockwise to bend left.



Lock

To fix bending neck angle, just switch the lock shaft clockwise to the lock position.



Function buttons



Boost button

Using in dark environment to enhance the brightness NOTE: Please hold the probe steady to get clear images.



*Before boost



*After boost



Rotate button

Four 90° view rotation to identify codes



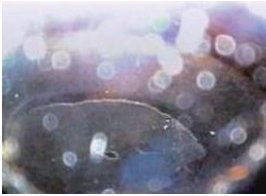


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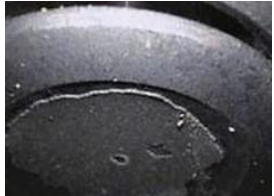


Particle free button

The button works with mirror to enable particle free function



*w/o particlefree



*with particlefree

Specifications

Wired (HYA 60701/02/03)

6mm VGA Articulation	
Dimension	228 x 35 x 53 mm
Weight	400g
Camera Head Length	23.3mm
Camera Head Material	Stainless steel
TubeLength(withoutTip)	1m,2m,3m
Tube Diameter	6mm
Resolution	VGA (640 x 480)
Light source	White LED
DOF	10~60mm
Working Temperature	-20°C ~ 60°C
Storage Temperature	-20°C ~ 60°C
IP Protection	IP67
Video Out Format	NTSC
Articulation Angle	1m 155° view angle 2m 145° view angle 3m 135° view angle

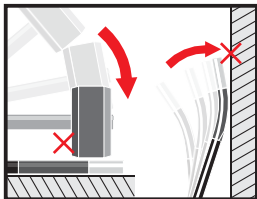
Wireless(WHYA 60701/02/03)

6mm VGA Articulation	
Dimension	201 x 35 x 53 mm
Weight	265g
Battery	Rechargeable Li Battery 3.7V
Brightness Control	Variable
Camera Head Length	23.3mm
Camera Head Material	Stainless steel
TubeLength(withoutTip)	1m,2m,3m
Tube Diameter	6mm
Resolution	VGA (640 x 480)
Light source	White LED
DOF	10~60mm
Working Temperature	-20°C ~ 60°C
Storage Temperature	-20°C ~ 60°C
IP Protection	IP67
Video Out Format	NTSC
Articulation Angle	1m 155°view angle 2m 145°view angle 3m 135° view angle°

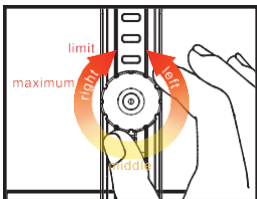
Cautions for Use

- 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
- In order to protect camera module, be sure to have a thread protective ring on the top of camera head if no accessories are used

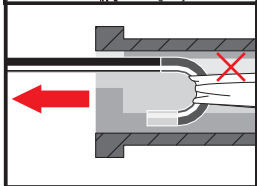
Bending neck is composed with precision components, DO NOT put under heavy load on this



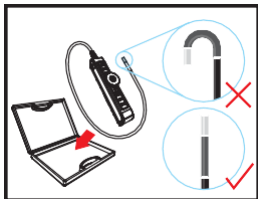
DONOT rotate the wheel when it is at the maximum angle



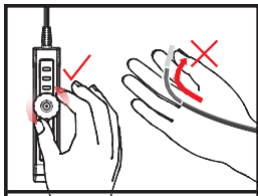
Never use the bending neck as a HOOK



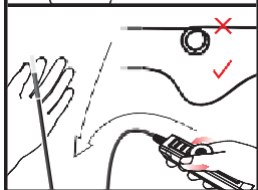
Please straighten the bending neck everytime before storage



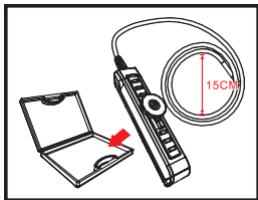
NEVER bend the bending neck with hand, operate by control wheel only



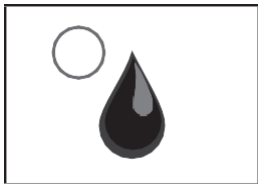
Please keep the insert tube straight while in use



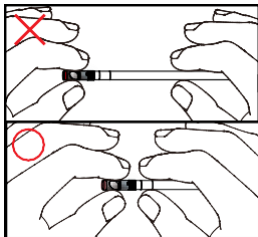
DONOT bundle the insert tube less than 15cm circle while not in use



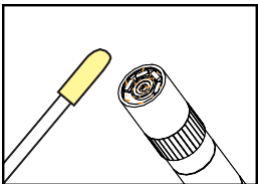
Liquid immersion passed:
unleaded gasoline, diesel,
machine oil, brake oil,
transmission oil, and water.

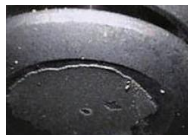


Don't tight accessory too hard,
just screw tightly until accessory
is fixed



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



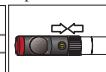
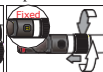
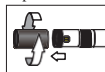


step1

step2

step3

step4





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