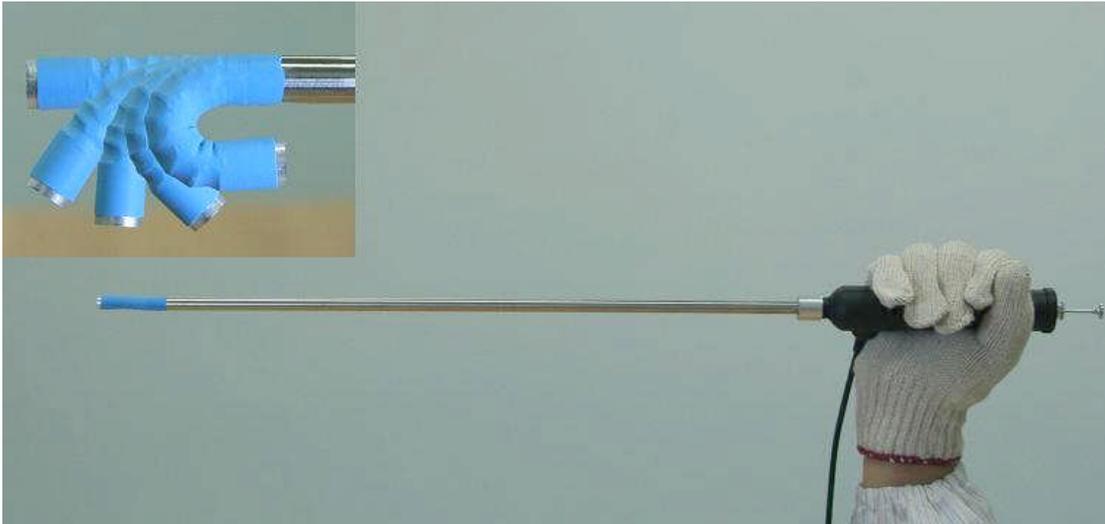


USER GUIDE OF DIGITAL CYLINDER INSPECTION BORESCOPE

EHEV2-USBA400

Digital Cylinder Inspection Borescopes are used for visual inspection work where the area to be inspected is inaccessible by other means.

The borescope uses a miniature video camera at the end of the rigid tube. The end of the insertion tube includes 6 high light white LED which makes it possible to get a very clear view and take photos or capture videos deep within equipment, engines and other dark spaces.



FEATURES

- 1, Articulation bendable angle: 0° to 180° adjustable continuously
- 2, Very easy operation by one hand hold and just pushing down the release button by bending the thumb to adjust the articulation angle
- 3, The articulation angle can be locked/unlocked at any degree by open/close the locker
- 4, Very small bending radius only 30mm
- 5, Super high light LED illumination
- 6, Super long depth of field from 40mm to 4000mm
- 7, Work with: Windows XP, 7, 8 and MAC, plug & play
- 8, Optional: 7 inches tablet with Android system , plug & play

SPECIFICATIONS

1. Sensor: high-quality CMOS sensor
2. Resolution: 640X480
3. Interface: USB2.0.
4. Frame rate: 30 frames/sec (CIF and VGA).
5. Focal distance: 40mm - 4000mm
6. Optical lens view angle: 60°

7. Photo format : JPG
8. High light LED: 6 pcs, white color
9. Brightness at 200mm distance: 200 lumens
10. Diameter of insertion: 8.5mm
11. Length of insertion: 400mm
12. Articulation bendable angle: one way 0° to 180° adjustable
13. Angle locker: can be locked/unlocked at any angle
14. Articulation bendable radius: 30mm
15. Working temperature: 10° to 50°
16. Storage temperature: 0° to 70°
17. Water proof: IP66
18. Works with: Windows XP, 7, 8 and MAC, plug & play
19. Optional device: 7 inches tablet with Android system , plug & play
20. Power supply: by USB port of PC or tablet
21. Operating languages: selectable
22. Package: carton box, 685 X 85 X 60 (mm³)

QUICK USE

For Windows users :

- 1, Plug in the borescope into the USB port
- 2, Copy the software ehe1.exe from the CD to the PC
- 3, Double click on the icon of ehe1.exe to open the image windows



- If the image came from your built-in camera please click on the devices in the navigation bar and then click on the USB camera to change image to the borescope
- 4, Quick use of the function keys:

KEY	FUNCTION
SPACE BAR	IMAGE FREEZE
RETURN	SNAP
↑ & ↓	ZOOM IN / OUT
F5	DELAY 10 SECONDS SNAP

For Mac users:

There is no software running on Mac .

But user may use the Photo booth to observe the image.

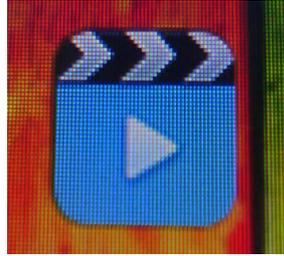
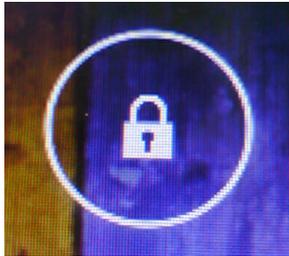
If the image came from your built-in camera please click on the cameras in the navigation bar and then click on the USB camera to change image to the borescope

For tablet users:

There is no software running on the tablet.

But user may use the built-in software to observe the image.

- 1, Plug in the borescope into the USB port
- 2, Turn on the tablet
- 3, Slide the icon of locker towards right to open the display, see below photos
- 4, Double touch the icon of the camera to get the image from the borescope



BENDABLE ARTICULATION OPERATIONS

- 1, How to bend the articulation see right photo:

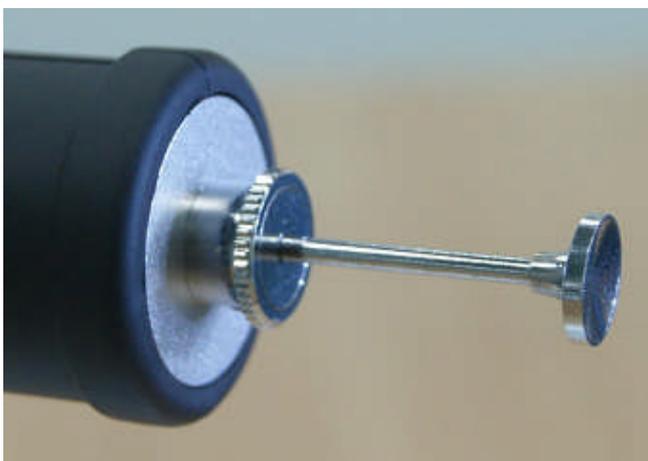
The release button and the locker are worked together.

Just push down the release button by the thumb to bend the articulation to a proper angle from 0° of the forward to the 180° backward

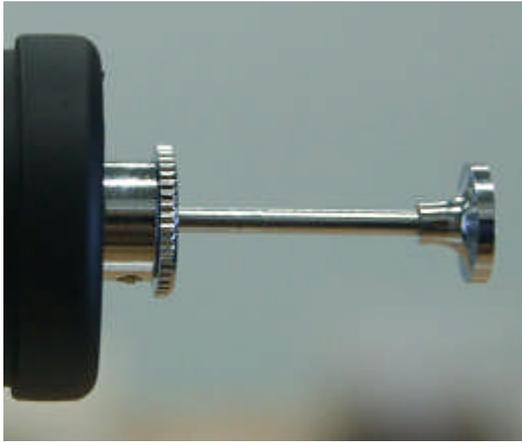
- 2, How to lock the articulation angle:

There is a locker at the down place of the release button you can see the knurling on the round edge.

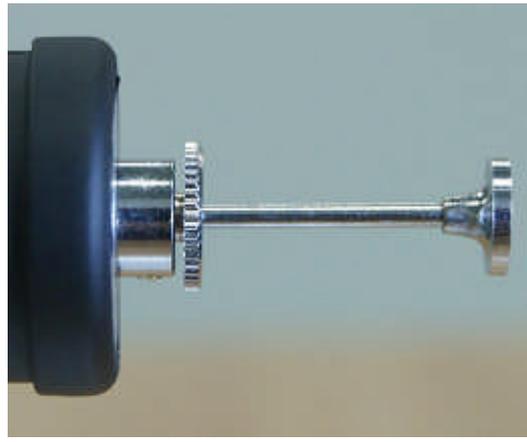
Turn the locker anticlockwise to open the function. And just push down the locker and turn the locker clockwise to close the function



Unlocked position



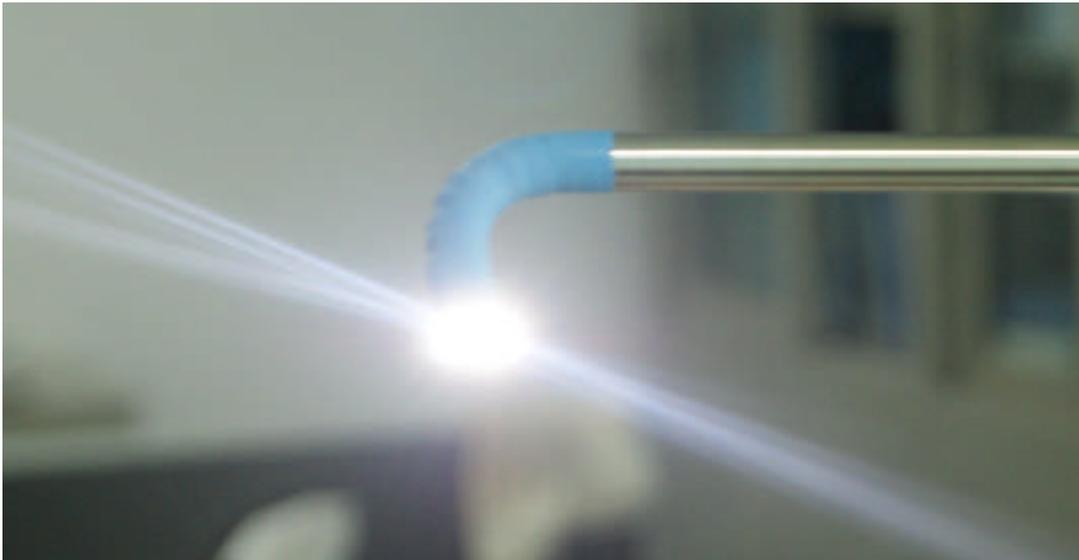
Locked position



3, Portrait of the image

The direction of the USB cable indicates the portrait position of the image

4, At the end of the rigid borescope there are 6 high light white LED around the lens to provide illumination. It will be turned on once you plug into the USB port. The LED will cause high temperature during the use. Please do not touch it by fingers.



VERY IMPORTANT NOTICE

Below damages are not covered by the warranty:

- 1, The borescope must be used under the common temperature from room temperature to 120° degree Fahrenheit. If the temperature was higher than 120° the noise would appear in the image or even damage the image sensor
- 2, Don' t put the borescope into water or oil
- 3, Before user finish the inspection to take the bended borescope out from a small hole user must remember to unlock the articulation and let it go back to the straight position. Roughly take it out and forgot to straight would damage the

articulations.

4, Using a Q-tip to clean the lens surface by immersion a little bit alcohol, do not touch it by fingers

Please contact manufacturer for more information:

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www.ablescope.com

