VH-100M

3D Measuring Videoscope

VH-100M 3D Measurement Videoscope

3D measurement function is a major difficulty in the endoscope industry. Whether the process selection of product appearance materials or the research to the design of software measurement algorithms, our team made a large number of feasibility studies and simulation tests.

3.9mm 0°/90° camera
6.0mm 0°/90° camera

Measurement function

Point-to-point/point-to-line/point to surface depth/ multiple point circumference measurement，measurement accuracy ≥ 95%
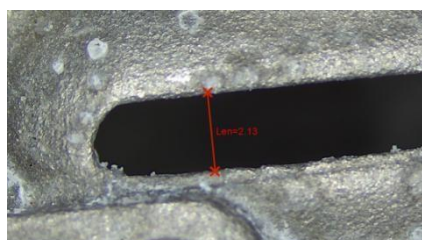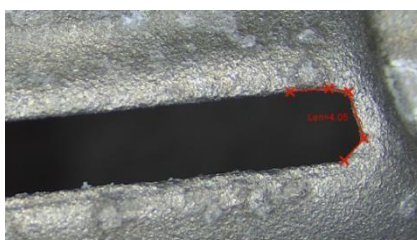
measurement modes

measurement data displays in list

zoom in/out

note text, mark, free drawing
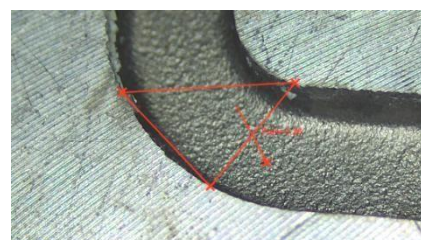
| distance between two points | multiple point circumference | point -to -plane depth |

intelligent operating system, accurate measurement results

Intelligent Software

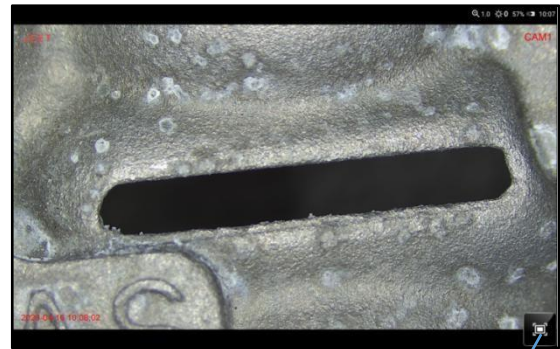**Picture in Picture**

static/dynamic image
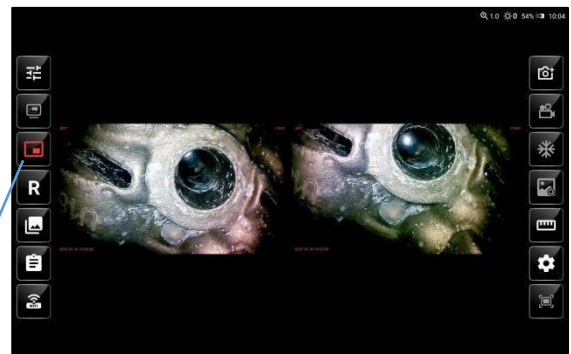comparison software

1920*1200 Super HD image, full screen

Full screen mode

Smart inspection

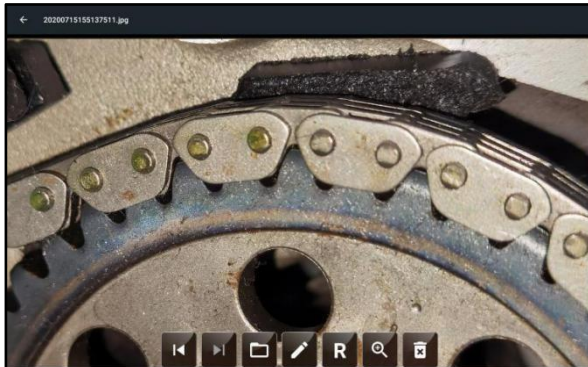**Dual-camera image**

Intelligent operation system

Image adjustment: resolution options Camera parameters setting: brightness/ contrast/ gamma/ ray/ saturation/sharpness
Image effects: auto balance/ negative film/ mirror image or rotation/image freezing
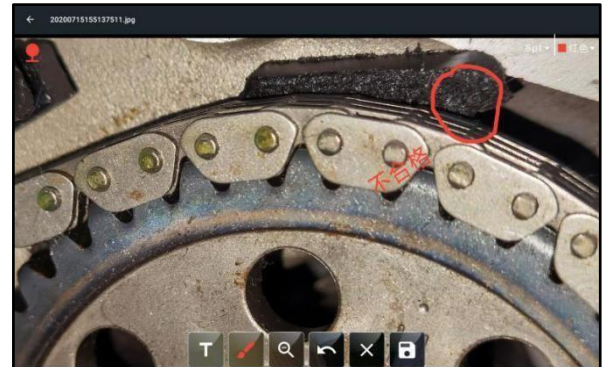**Note text:** annotation/free drawing/mark
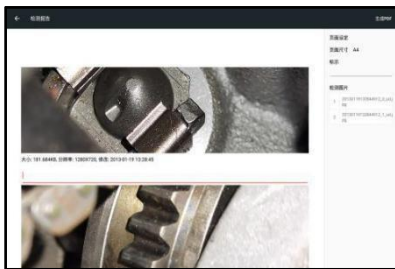
Picture annotation, free drawing:

① select pictures or freeze the image ;
select "free drawing" icon.

②text note or mark and ; confirm
after operation to save the file.

MDI report generation

select pictures and editing the report

generate report in PDF file

report sent to the mobile phone

Portable design

adjustable bracket

HDMI

- ● HDMI image output, synchronous image display
- ● 3.0/2.0 dual USB port
- ● 32G SD card，support 128G card at maximum

Tube system

illuminance

super bright ceramic light

Wear resistant tube

5 layers of tungsten- braided tube;

Wear resistance: 20 times better than

ordinary probe

360° articulation

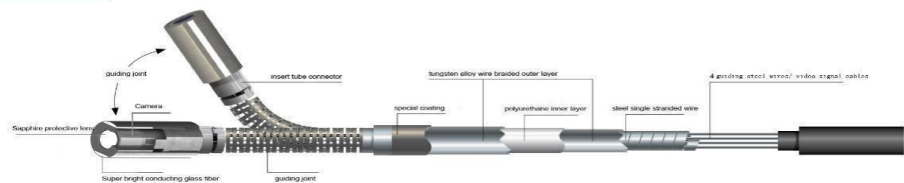| **Videoscope Probe**	
Diameter	6.0mm/3.9mm
DOF	10~100mm
Sensor	HD image sensor
Resolution	HD 1000000 pixels
Working length	2m/3m, customized
Material	abrasion-resistant alloy
Temperature	No
System	
Case size	360×360×100mm
Host size	300×220×59mm
Host weight	1.9KG
Host material	magnesium aluminum alloy
Display resolution	1920×1200
Joystick handle size	235×90×70mm
Joystick handle weight	0.4KG
Articulation	360°
Bending angle	≤150°
Storage	Internal memory/SD card/U disk（optional）
I/O port	Micro USB×2;mini HDMI×1;SD slot×1;Air plug×1
Video output	HDMI
Light source	Real cold light source+fiber
Brightness level	5X
Illumination	Max 100000LX
White balance	Automatic
Battery capacity	3000mA/3.7V ×4
Battery charging	12V，1A
Power	10W
Battery work time	2.5h
DC mode	Support charging while use
Software	
Operation system	Real-time intelligent multitasking operating system
User interface	Button+touch screen
File management	Intelligent file management system, support to the memory and SD card, USB storage media files and folders for the following operations: copy, cut, rename, delete, and so on

Image adjustment	Image adjustment: resolution options Camera parameters setting: brightness/ contrast/ gamma/ ray/ saturation/sharpness Image effects: auto balance/ negative film/mirror image or rotation/image freezing Note text: annotation/free drawing/mark
Image zoom in/out	3X
Image format	JPG
Video format	MP4
Text annotation	Photo text overlay, can choose the font size of the annotation text
Image annotation	Seal (default/custom), doodle, text input
Software upgrade	On-site upgrades are available via SD card and USB storage media
Language	English / French / German / Spanish / Japanese / Traditional Chinese / Simplified Chinese / Russian / Korean
Utility software	MDI report generation software Dual video input switching software (it shall be equipped with the direct side view switching pipeline) Picture in picture comparison software 3D measurement software
Measurement function	
Point to point distance	Measure the distance between two points
Point to line distance	Measure the distance from the point to the line
Point to surface depth	Measure the distance from the point to the surface
Multi-segment line length	Measure the total length of multiple continuous lines
Closed segment length	Measure the length of multiple closed continuous lines
Line to surface depth	Measure the depth of the line to the specified surface
Area	Measure the area of a closed polygon（pending）
Partial magnifying window assist function	3X
Picture can be measured	Multiple measurements can be made continuously
Measuring list	Multiple measurements can be tabulated
Standard precision value	0.1mm
Minimum precision value	0.01mm
Accuracy	≈95%