



# SV Pro

## 3D Measurement Videoscope

- ✓ High definition
- ✓ Easy to operate
- ✓ 3D measurement
- ✓ Stable and reliable



HD · Intelligence

## High definition display image

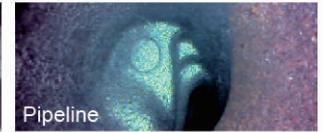


- 6.5 inch high-definition touch screen with professional customized lenses.
- Million pixel and sensitivity image sensor, ensuring clear and delicate images.
- The binocular lens adopts a 720P high-definition solution, high sensitivity CMOS sensor, and automatic light sensitivity.



Engine

Higher resolution displays fine defects



Pipeline

Excellent and strong light to support view in large cavity



Corrosive/ablative materials

True color reproduction



Welding

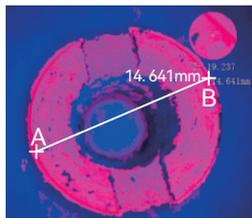
Advanced noise reduction performance improves real-time image quality

## Measurement Method

### Point-to-point



Point-to-point

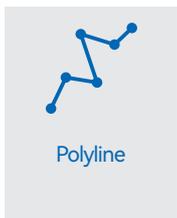


Point-to-point measurement. Use the mouse or touch pen to select the two points to be measured, and the system will automatically calculate the linear distance between the selected two points, as shown in the following figure:

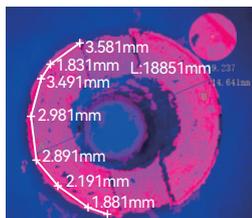
Note: When the mouse moves or clicks the effective measurement point A on the screen, and then clicks the point B that needs to be measured, the distance between the two points will be displayed in real time after the second point B is clicked.

Application scenario: Need to measure the width and length of cracks or scars.

### Polyline measurement



Polyline

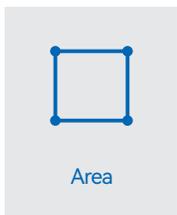


Polyline measurement, after clicking multiple points, the system will automatically calculate the distance of multiple continuous line segments in turn. As shown below:

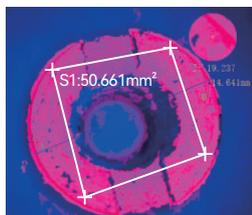
L: Represents the total length of a line segment connected by a point, or the total length of an arc.

Application scenario: When the scar to be detected is an arc or irregular shape, the length of the scar can be calculated by measuring the broken line.

### Area measurement



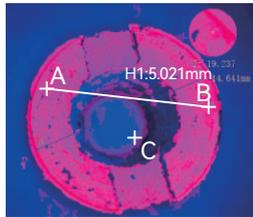
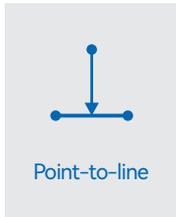
Area



Area measurement, measuring the area of the surface formed by multiple points, select at least three points, as shown in the figure below, the value after S1 represents the area of the surface formed by the selected four points.

Application scenario: Need to measure the area of corrosion pits and defects.

### Point-to-line measurement



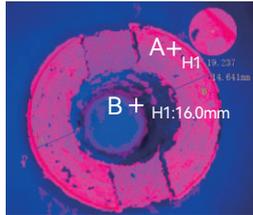
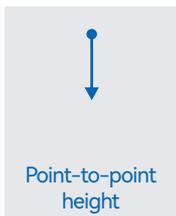
First select two points to determine a line, then click the third point to obtain the vertical distance from the point to the line, as shown in the figure below.

Note: 1. Select two points A and B on the platform surface to determine a line, click a point C on the bottom of the cavity, and the system will automatically generate the vertical distance from point C to the line formed by two points AB.

2. Two H1s represent that this is a set of measurement data, and the number behind H1 near point C represents the distance from the point to the line.

Application scenario: When measuring the depth of corrosion pits, an effective plane cannot be selected. The depth can be measured by the distance from the point to the line.

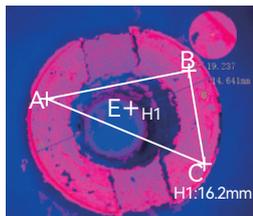
### Point-to-point height



Point-to-point height: measure the height difference between the two selected points, as shown in the figure below.

Application scenario: When it is necessary to measure the depth of corrosion pits and defects, and the required plane cannot be selected, this measurement method can be directly used to measure the height difference between the two selected points to evaluate the depth of the defect.

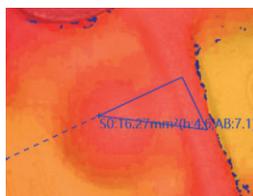
### Point-to-surface measurement



Point-to-surface measurement, measure the distance from the point to the surface, first click to select three points to determine a plane, and then click the fourth point where the distance to the surface needs to be measured, and the fourth point to the first three can be automatically calculated. The vertical distance of the face determined by the point. As shown below.

Note: Select three points ABC on the surface to be measured in turn to form a surface, select the fourth point E in the cavity, and the system will automatically calculate the vertical distance from point E to the plane formed by ABC, that is, point to surface the distance.

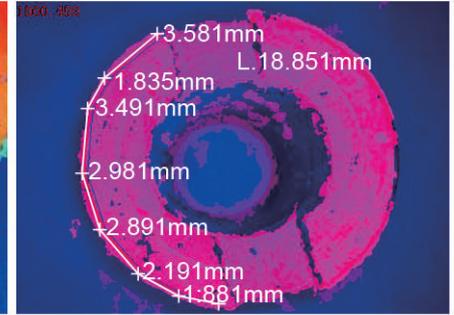
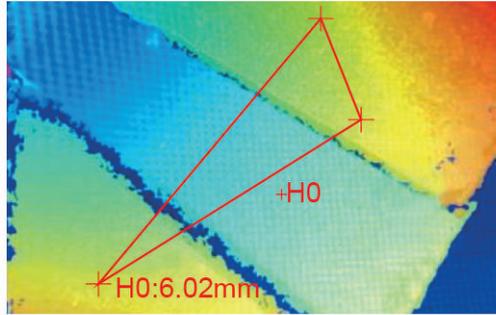
### Flaw area measurement



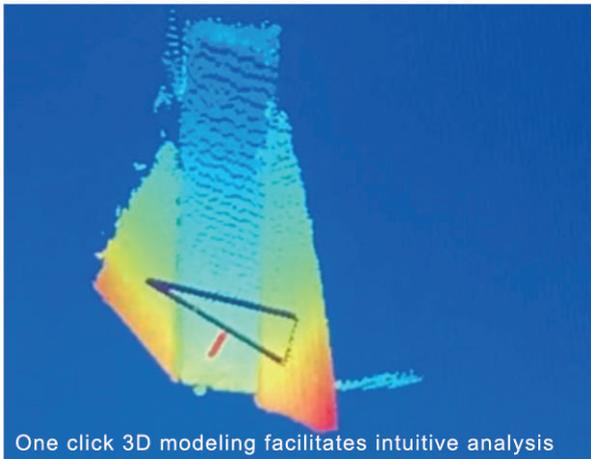
The measurement of a missing area is performed, and two points are selected on one edge that needs to measure the missing, and the third point is selected on the other side of the missing. The system will automatically calculate the area of the missing, as follows: the area of the triangle in the figure. It is the area of the missing, the h: represents the height of the defective triangle, AB represents the length of the dotted line.

## Powerful measurement function

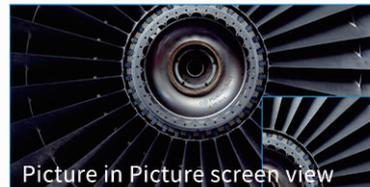
- High definition 3D scanning measurement can perform precise 3D measurements.
- It can display object distance and measure dimensions in real-time, allowing for more intuitive and accurate detection.
- The rich 3D depth cloud map provides a reliable guarantee for accurate measurement, and cracks as fine as silk threads can be accurately displayed and measured.



## Intelligent operating system



Negative enhancement display



Picture in Picture screen view

- One click 3D modeling
- Negative film comparison display
- Real-time image picture - in - picture display
- Desktop Collection Common Function Icons
- Exclusive watermark addition

## Front and Side view swithable

Tap the side view icon to switch to the side view interface, and tap the front view icon to switch back front view interface

Side

Direct



## 360 ° all-round joystick control



Flexible articulation through all-round adjustment of the joystick

## Modular design



Modular design allows for quick replacement of probes

## Exquisite exterior design



Anti drop and shockproof bordure

Touch sensitive HD highlight screen

The button position is suitable for finger operation

Anti slip handheld cushion

Large capacity rechargeable lithium battery with long working hour

## Support for depth of field switching



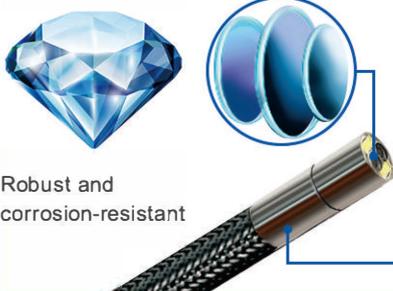
- Near and far focal lens
- Can switch lens depth of field with one click

## HDMI output

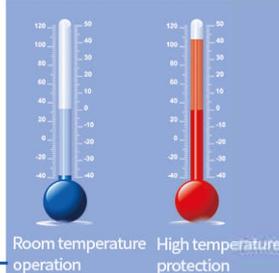


• HDMI • USB3.0

## Sapphire lens high-precision probe



Robust and corrosion-resistant



## Ingress protection standards

IP65



## Applications



Aerospace



Aircraft engine



Aircraft manufacturing

## Technical parameters

Camera	Diameter 3.9/6.0mm	LCD size	6.5 inches touch screen
Pixels	5000,000 / 1,000,000	Controller size	351*163*122
DOF	8mm~80mm (side view camera 5mm-50mm)	Controller interface	HDMI interface,USB 3.0 interface
FOV	120°	System memory	Built-in 4GB standard flash memory
Housing material	Titanium alloy or Stainless steel	Memory medium	128GB SSD
Cable length	2.0M/3.0M	Battery capacity and working hour	11.1V 7000mah- >3 hours
Cable surface layer	Tungsten braided	Operation system	Embedded operation system
Bending angle	>120°	Image control	
Control mode	Motor driven joystick control	Temperature warning	Over temperature warning
Type of light	High light LED	Special image processing	Negative
LED Life	100,000 hours	Still image record	Resolution 1280x720 format JPEG , BMP
Temperature sensing	Built-in temperature sensor	Video recording	Resolution 1280x720 format AVI ,ASF
DOV	0 or 90°	Stereo measurement	Including point-to-point,point-to-line, point-to-surface, curve measurement,etc. The measurement accuracy is 0.1~0.2mm, and the deviation is 1~2%
Camera lock/ pause	Available	Data output	Support U disk export

### DISTRAME

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