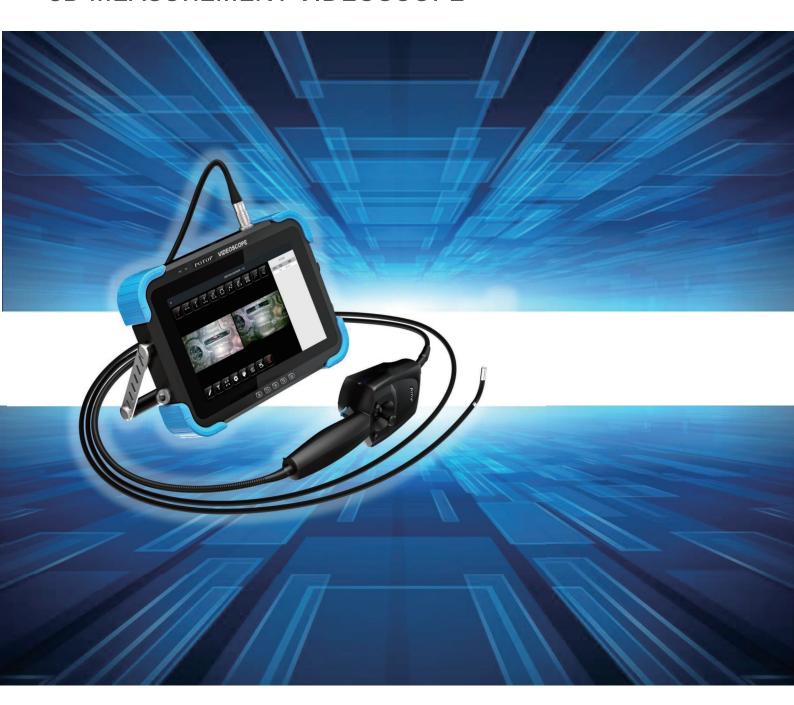


## **CF SERIES**

## 3D MEASUREMENT VIDEOSCOPE



## CF pro 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, POTOP R&D team made a large number of feasibility studies and simulation tests.

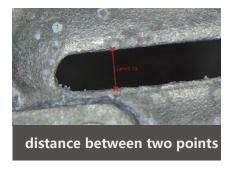
**3.9mm** 0°/90° camera **6.0mm** 0°/90° camera

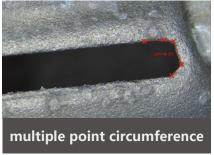


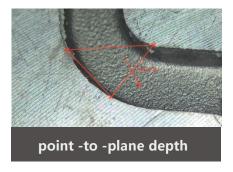
#### **Measurement function**

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



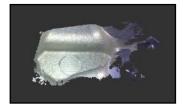






# High precision and fast global scanning 3D cloud image

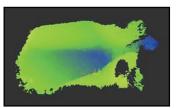
- Fast global scanning to view 3D physical cloud image
- Vertical depth cloud map, automatic measurement of maximum depth
- 3D cloud image XYZ coordinate display, arbitrary section view, easy to locate the depth and height difference of internal defects
- the datum plane shifts and the depth value changes in real time



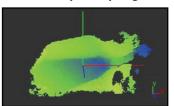
3D physical cloud image



**Profile** 



Vertical depth nephogram



**Cloud 3D coordinates** 

### Intelligent Software

Picture in Picture static/dynamic image comparison software











**Full screen mode** 



**Smart inspection** 



**Dual-camera image** 

### Intelligent operation system

**Image adjustment:** resolution options

Camera parameters setting: brightness/ contrast/

gamma/ ray/ saturation/sharpness

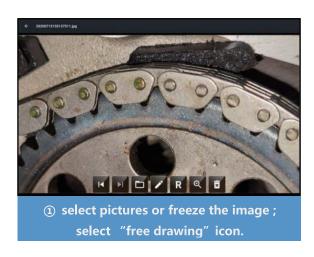
Image effects: auto balance/ negative film/mirror image

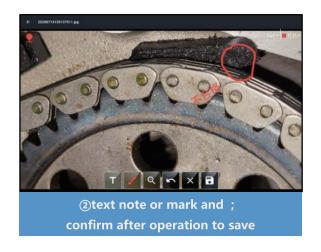
or rotation/image freezing

Note text: annotation/free drawing/mark



#### Picture annotation, free drawing

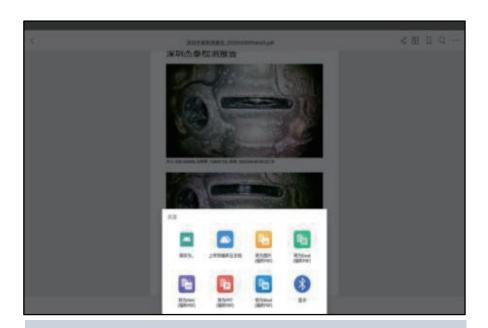




#### **MDI** report generation

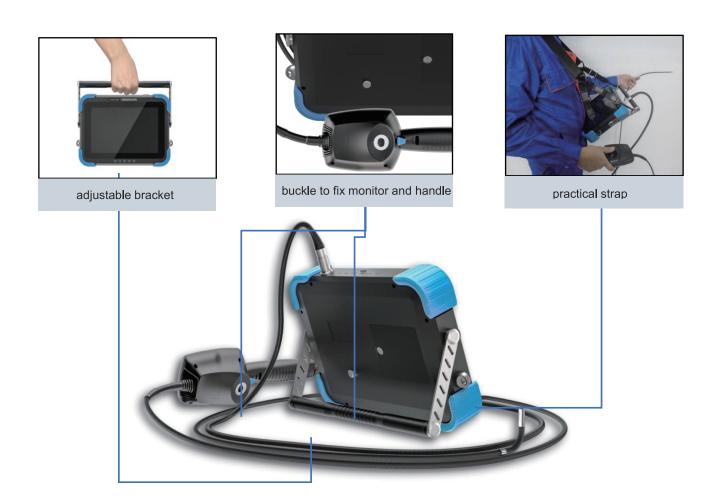




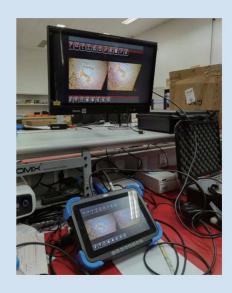


Treport sent to the mobile phone via bluetooth

## Portable design



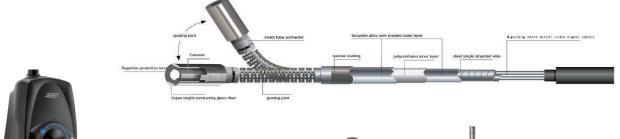






- HDMI image output, synchronous image display
- 3.0/2.0 dual USB port
- 32G SD card, support 128G card at maximum

## Tube system







360° articulation







maximum bending angle:190°

### **Parameters**

#### **Probe**

Diameter	6.0mm/3.9mm						
DOF	5~50mm / 10~100mm						
FOV	120°						
Sensor	HD image sensor						
Resolution	HD 1000000 pixels						
Working length	2m/3m, customized						
Material	abrasion-resistant alloy						
Temperature	No						

#### **System**

- Cyclonii						
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 storag media files and folders for the following operations: copy, cut, rename, delete, and so					
lmage 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					
	MDI report generation software					
1.1699	Dual video input switching software					
Utility software	(it shall be equipped with the direct side view switching pipeline)					
	Picture in picture comparison software  3D measurement software					

#### **Measurement Function**

Measure the distance between two points					
Measure the distance from the point to the line					
Measure the distance from the point to the surface					
Measure the total length of multiple continuous lines					
Measure the length of multiple closed continuous lines					
Measure the depth of the line to the specified surface					
Measure the area of a closed polygon (pending)					
3X					
Multiple measurements can be made continuously					
Multiple measurements can be tabulated					
0.1mm					
0.01mm					
≈95%					

MODEL	DISPLAY	DIAMETER	LENGTH	ARTICULATION	CAMERA PIXELS	LED LIGHT	Bend Angle	Option
CF10-39014	10.1"	Ø3.9	1.5	360°(4 Way)	300,000	20000 Lux	150°	Side View for Option
CF10-39024	10.1"	Ø3.9	2	360°(4 Way)	300,000	20000 Lux	150°	
CF10-39034	10.1"	Ø3.9	3	360°(4 Way)	300,000	20000 Lux	120°	
CF10-60014	10.1"	Ø6	1.5	360°(4 Way)	1MP	80000 Lux	150°	
CF10-60024	10.1"	Ø6	2	360°(4 Way)	1MP	80000 Lux	150°	
CF10-60034	10.1"	Ø6	3	360°(4 Way)	1MP	80000 Lux	120°	

