

Sugia C68 series

High Performance Multifunctional Industrial Videoscope



- 8inch IPS full view industrial HD LCD touchscreen
- High-pixel HD industrial camera
- Electric control joystick + touchscreen virtual joystick
- Built-in Bluetooth / WiFi module that can be connected to network
- Knob-style multifunction button
- 180° rotatable bracket that can be hung or supported
- Expandable large storage space
- Replaceable high-capacity battery with charging base

**Knob type multifunctional button,
Original patented technology**

1. Brief Introduction

The C68 Series is a brand-new, high-performance industrial videoscope independently researched and developed

By combining an electronic joystick with a virtual joystick on the touchscreen, the device offers enhanced control, flexibility, and user comfort.

Designed for inspecting areas that are difficult to access with the naked eye, the C68 improves both product quality assurance and operational safety. It is widely applicable in industries such as aerospace, energy, power generation, chemical processing, machinery, automotive, and specialized inspection fields.



C68 Real view of detection engine

2.Superior performance

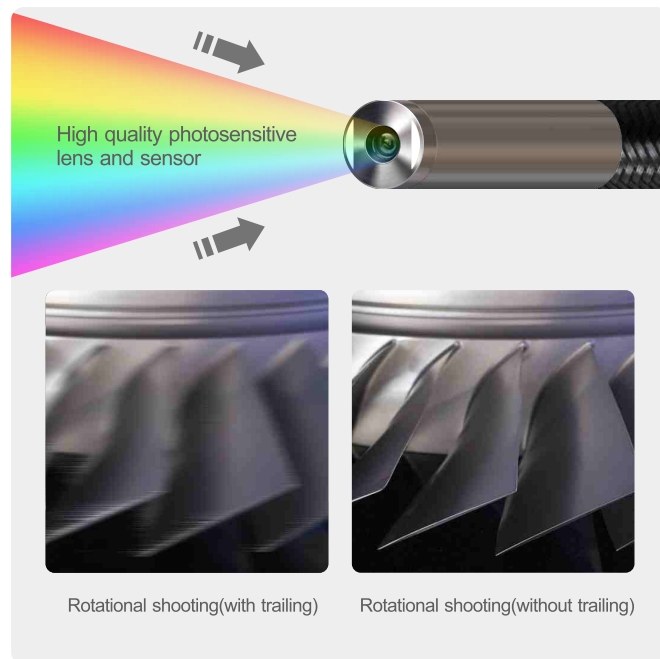
8-inch IPS full-view industrial HD touch screen

The larger viewing angle effectively reproduces true colors, providing excellent image quality and significantly reducing visual fatigue, thus enhancing inspection comfort. The touchscreen is highly responsive and easy to operate, greatly improving work efficiency.



1/2/5-MegaPixel HD industrial camera

Equipped with a high-quality image sensor, it delivers clearer and more detailed images, smoother video, with no delay or trailing, facilitating the rapid and accurate identification of subtle defects.



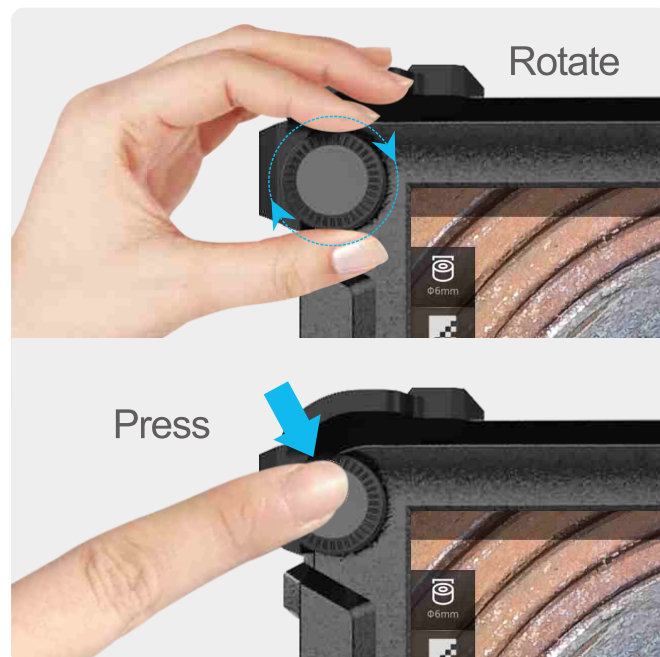
Electric joystick + touch screen virtual joystick

The electric joystick is matched with the touch screen virtual joystick to control the probe move accurately, providing a better control experience. Turn on the probe coordinate display function to observe the current bending angle of the probe in real-time. Users can also configure mechanical joystick as required.



Knob type multifunction key

The unique design of knob type multifunctional key (patented) makes it easier to switch and set menu functions.



2.Superior performance

180° Rotatable stand

Equipped with 180°rotatable support,it can be suspended and supported,which is convenient to adjust the observation angle,and is suitable for various detection scenes.



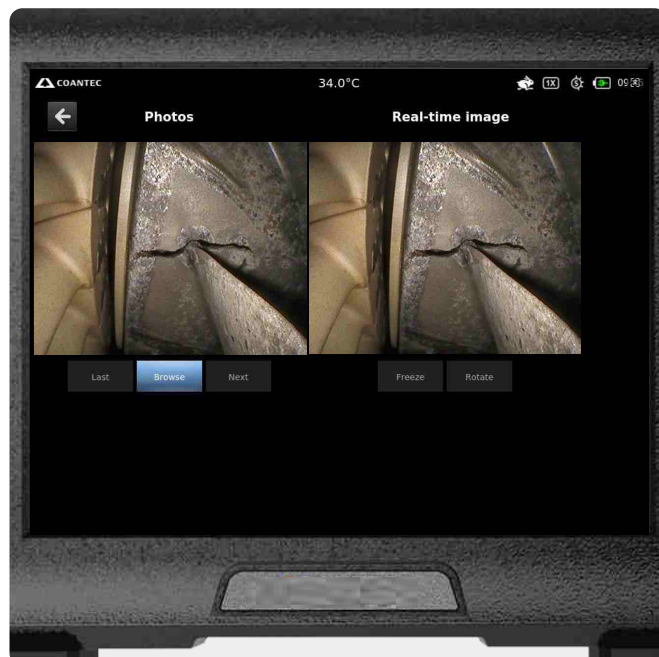
Supports simultaneous display via HDMI

The external display screen can be connected through HDMI interface (standard), which is convenient for multi person consultation and more conducive to accurate judgment of on-site conditions.



Real time image comparison function

By comparing and observing the difference between the real-time detection image and the static image,it is more convenient to find and distinguish the possible surface defects of the detected object in time.



Built in wireless Bluetooth and WiFi modules

Built in wireless Bluetooth module to transfer pictures or video files more conveniently and quickly.Built in WiFi modules can upload and download data through wireless networking.



2.Superior performance

LAN live streaming function

The LAN live streaming function is that, the users scan the QR code in the borescope with their mobiles, and transmit the real-time detection image to their mobiles through the LAN. After scanning the code, each mobile phone user can synchronously view the inspection image remotely, which is suitable for expert or multi-person consultation, to achieve better cooperation.

The borescope and the mobile are in the same LAN(Wifi)



After scanning the code, each mobile phone user can synchronously view the inspection image remotely

Four corner TPU rubber coated anti-collision design

The four corners of the host adopt TPU rubber coated anti-collision design, with round and beautiful appearance, more shock and fall resistance, effectively strengthening the protection of the equipment, and more durable.



Expandable large storage space

The host memory is 2GB, and the standard storage space is 16GB, which can be expanded to 128GB, with larger storage space and faster access speed. Equipped with 2-way USB interfaces, data can be stored through external USB disk.



3D measurement function (premium version)

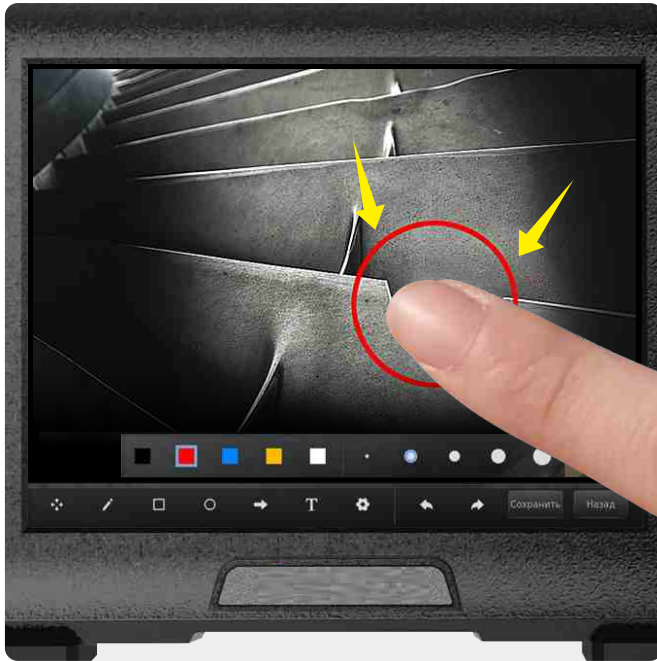
The binocular stereo imaging measurement system can measure the Length, Vertical, Depth, Multisegments, Area, Missing corner, sectional, Circles and Gap. The measurement accuracy can reach 0.01mm and the error is $\leq 5\%$.



2.Superior performance

Picture editing function

Text and graphic notes can be added to the picture,such as full screen text mark,graffiti overlay,handwritten lines,arrows,boxes,circular signs, text notes,etc.



Super long service time

The replaceable high-capacity rechargeable lithium battery and charger are adopted to ensure the long-term service time.



Battery capacity
Working time of electric joystick≥24h
Working time of mechanical joystick≥6h

3.Technical Specification

• Standard ◦ Optional - Not available

Host system	
Display	IPS HD touch screen
Display size	8-inch
User interface	Use the touch screen,physical buttons,and joystick menus to navigate
Host storage capacity	The standard memory is 16GB and can be expanded to 128GB
Storage memory expandable	◦
Host running memory	The standard running memory is 2GB and can be expanded to 4GB
Photography function	•
Image format	JPG/BMP
Video recording function	•
Video format	MP4
Real-time image zoom	1-5 times through button or touchscreen
LED brightness adjustable	0-9 level
Image effect	Image brightness,contrast,hue,saturation,sharpness,gamma
Display brightness manual adjustment	•
Image mode	Default,monochrome,negative,bright,highlighted,or soft
Image rotation	•
Image freezing	•
Image mirroring	•
Image real-time comparison	•
Time watermark	•
Report generator	•
Ruler	None,circular ruler,cross ruler,or reference line
Bluetooth data transmission	•
WiFi data transmission	•
File operations	Full screen view/image/zoom/delete/rename/rotate/graffiti etc
Image Zoom	1-5 times(by button or touch screen)
Photo edit	Text annotation and graffiti functions (handwritten lines,arrows,boxes,round signs,text annotation,and can set the brush color and thickness)
User permission management	Administrator,Visitors,Standard user (created by administrator)
Menu/input method language	Simplified Chinese,English,Japanese,Korean,French,German,Portuguese,Spanish, Russian,Italian,Dutch and more than 10 other languages
3D measurement system(optional)	9 measurement methods: Length,Vertical,Depth,Multisegment,Area,Missing corner, Sectional,Circle and Gap.
3D measurement accuracy	0.01mm
Measurement error	≤5%
Video live streaming	•
Online upgrade	•
Ingress Protection(host)	IP55

Output port	
HDMI video output port	•
3.5mm audio port	•
USB 2.0 port*2	•

Insertion tube		
Tube diameter(±0.1mm)	0.95 /1.2/ 1.6/ 1.8/ 2 /2.8 /3.9/ 4.8/ 6 /8mm	
Insertion tube length	1m~10m optional (measurement function only supports insertion tubes with a diameter of over 4mm)	
Depth of view(mm)	5-50/5-100/10-100/50-∞	
View angle	70°/80°/100°/120°*	
Camera pixels	160,000/300,000/1,000,000/2,000,000*	
Tube replacement	●	
Lens replacement	○	
View direction	Front view/Side view/Dual view	
Light source	Front LED/Rear-mounted LED+fiber light guiding	
360°all-way articulation	●	
Probe bending angle	≥160°(eg.for 6mm 1m tube)	
Joystick	Mechanical joystick	Motor-control joystick
Virtual joystick	-	●
Probe lock/release	-	●
Bending speed	-	Fast/Slow,3 level in each mode
Probe housing material	Super hard alloy protection case	
Tube material	Tungsten wire wear-resistant braided tube	
Ingress Protection(insertion tube)	IP67	
Power supply		
Input power	Input:220±10%V 50Hz	
Output	Output DC:15V 6A	
Battery capacity	Voltage:7.4V,Capacity:10,000mAh	
Continuous working time	Mechanical joystick:≥6h ,Motor-control joystick:≥4h	
Operating environment		
System operating temperature	-20°C~60°C	
Tip operating temperature	-25°C~100°C(Over-Temperature Alarm optional)	
Storage temperature	-40°C~60°C	
Relative humidity	15%-90%	
Accessories		Customization
Special instrument case	●	Tube length,diameter,light source ○
USB flash disk	●	Tube can be added with a scale ○
Power adaptor	●	Software ○
Pipe centralized	○	Display size ○
Battery pack	○	Lens ○
Shoulder strap	○	*The specific parameters are subject to the actual product. Please contact to the sales for confirmation.
Battery charger	●	
HDMI cable	●	
Dimensions		
Host size	245mm*195mm*95mm	
Packing size	551mm*351mm*240mm	
Host weight (including battery)	2.85Kg	
Operating handle	1.1Kg	