COANTEC

CoantecNDT®

Coantec C68 series

High Performance Multifunctional Industrial Videoscope



- 8-inch industrial wide-view HD IPS touch screen
- 1,000,000 pixel HD industrial camera
- Electric joystick + touch screen virtual joystick
- Knob-type multifunctional key
- 180° rotating base, can be hung or stand
- Built in wireless Bluetooth,4G and WiFi modules
- 3.5mm Audio interface output (optional)
- 4 corners TPU rubber coated anti-collision
- Expandable large storage space
- 3D measurement function (premium version)
- Picture editing function
- Super long service time of power supply

Knob type multifunctional key,
Original patented technology

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1.Brief Introduction

The C68 series industrial video endoscope is a newly developed non-destructive visual inspection device by Coantec. It features an IPS full-view industrial high-definition touch screen and a high-quality image sensor, combined with advanced image processing technology to effectively reproduce true colors and present clearer images with richer details. By integrating an electric control joystick and a touchscreen virtual joystick, it offers superior operability, flexibility, and comfort. The device can directly observe areas that are difficult for the human eye to see, ensuring better product quality and safe operation of equipment. This product is suitable for use in aviation, aerospace, energy, electric power, chemical, machinery, automotive, military, and special inspection fields.



C68 Real view of detection engine

2.Superior performance

8-inch IPS full-view industrial HD touch LCD screen

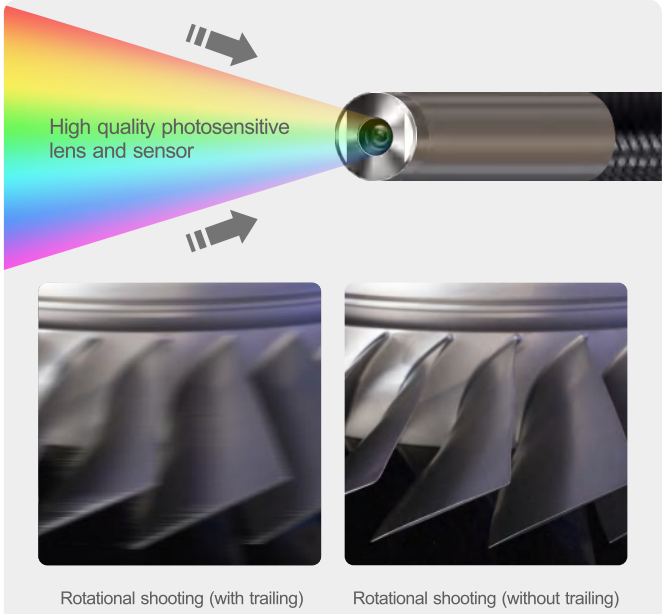
The larger viewing angle effectively reproduces true colors, providing excellent image quality and significantly reducing visual fatigue, thus enhancing inspection comfort. The touchscreen is highly responsive and easy to operate, greatly improving work efficiency.





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.



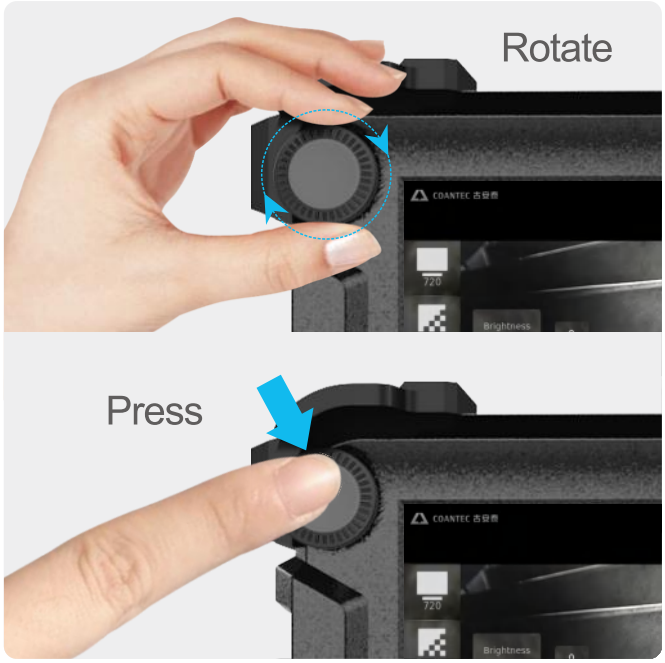
Electric joystick + touch screen virtual joystick

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

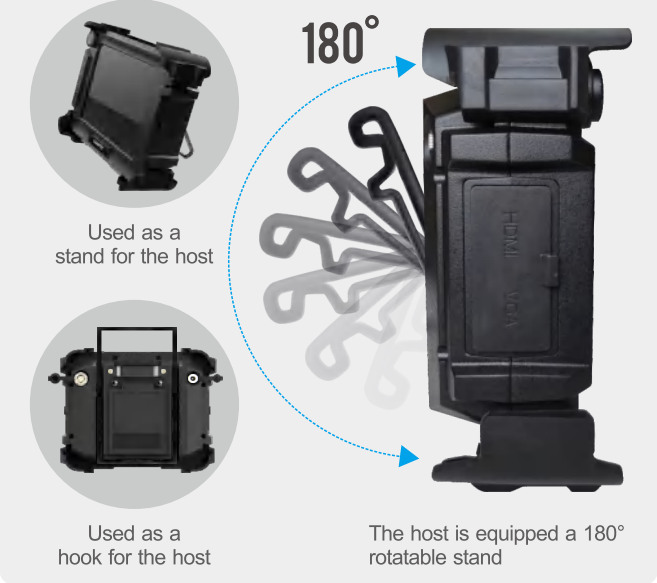
The unique design of knob type multifunctional key (patented) makes it easier to switch and set menu functions.



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.



HDMI Same screen output

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, 4G and WiFi modules

Built in wireless Bluetooth module to transfer pictures or video files more conveniently and quickly.Built in 4G and 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 64GB, 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.The measurement accuracy can reach 0.01mm and the error is ≤ 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.





3.Technical Specification

“•” Standard configuration “○” Optional configuration “–” Not provided	C68 series
Host system	
Display	Brand new IPS HD touch screen
Display size	8-inch
Display datachable	•
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-lime 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 generatior	•
Ruler	None,circular ruler,cross ruler,or reference line
Bluetooth data transmssion	•
WiFi data transmission	•
File operations	Full screen view/image/zoom/delete/rename/rotate/graffiti etc
Image Zoom	1-5 times(by button ar touch screen)
Photo edit	8 measurement methods: Length, Vertical, Depth, Multisegments, Area,
	Missing corner, sectional,Circles.
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)	8measurement methods: Point to point, point to line, point to face, multiple line
	segments, regions, missing corners, sections,circles
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)	2.0mm 2.8mm 3.9mm 4.8mm	Tube length:1m-3m available(The measurement function is only available for tubes larger than 4mm)
	6mm 8mm	Tube length:1m-10m available
Depth of view(mm)	5-50/5-100/8-250*	
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/Front and Side view integrated	
Light source	Front LED/Rear-mounted LED+fiber light guiding	
360°all-way articulation	•	
Probe bending angle	≥160°(eg:for 6mm 1m tube)	
Joystick	Machanical 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:10000mAh	
Continuous working time	Machanical 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 charge	•		
HDMI cable	•		

Dimensions	
Host size	245mm*195mm*95mm
Packing size	551mm*351mm*240mm
Host weight (including battery)	2.85Kg
Operating handle	1.1Kg