

Coantec X3 series

High Performance Multifunctional Industrial Videoscope

- Mechanical hand-held integrated design
- Compatible with various sizes of displays
- Compatible with various specifications of insertion tubes
- Tube quick-replacement structure
- Can be configured with a variety of lighting sources
- Can replace different focus cameras
- High frame rate image sensor (optional)
- Dual engine power supply, long battery life
- High-precision 3D measurement Function(high configuration)
- Large capacity storage space



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X3 Real view of detecting gearbox



1. Brief Introduction

The X3 series is a high-performance multi-purpose mechanical control industrial videoscope which independently developed by Coantec. The product adopts a high-definition industrial camera and a 5.44-inch FHD AMOLED touch screen, which effectively restores the true colors and makes the detection image clearer. Optional high frame rate image sensor, video image is more smooth, no afterimage, no frame jam. The whole machine adopts a hand-held integrated design, and the mechanical control probe can steer 360° flexibly in all directions. The tube quick replacement structure makes it more convenient. Compatible with a variety sizes of display screens, replacement of multiple cameras, white light, infrared light, UV light sources, storage space can be expanded, long battery life. It is suitable for aviation, aerospace, automotive, railways, ships, energy, petrochemicals, electric power, military industry, special inspection and other fields.

2. Powerful Performance

Mechanical hand-held integrated design

The ergonomics hand-held design is more comfortable to hold. The joystick is mechanically controlled, it has an accurate probe steering angle, the response is sensitive and has no delay, it has a good control experience. Lightweight and portable, the inspection can be carried out quickly anytime and anywhere.



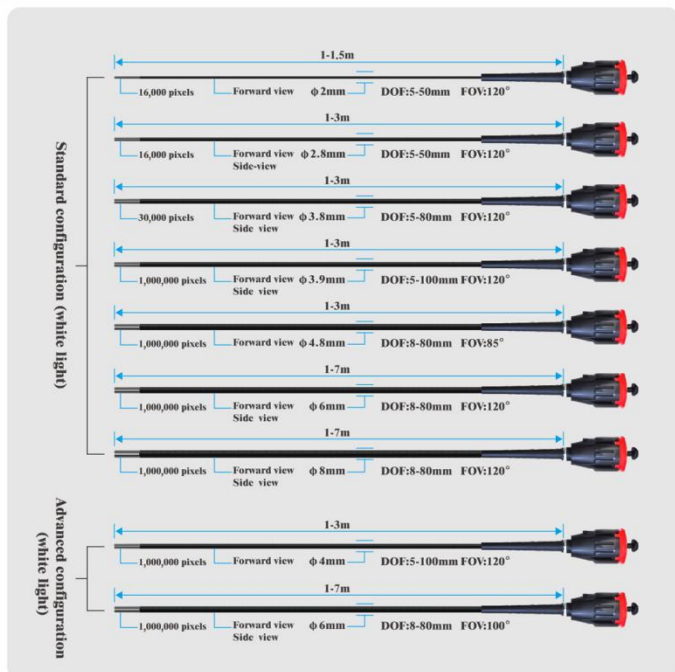
Compatible with various sizes of displays

It is equipped with a 5.44-inch high-definition OLED touch screen, the 6-inch display can be replaced, or any size display between 3.5-8 inches can be customized according to needs.



Compatible with various specifications of insertion tubes

A host can be equipped with different specifications of insertion tubes, and the length, diameter, and lighting method can be customized according to requirements, which can save costs better.



Tube quick-replacement structure

It adopts tube quick-replacement structure, no need to disassemble the nut, only turn the lock ring clockwise/counterclockwise, it can be loosened/locked in 3 seconds, the inserted tube can be quickly replaced.



2. Powerful Performance

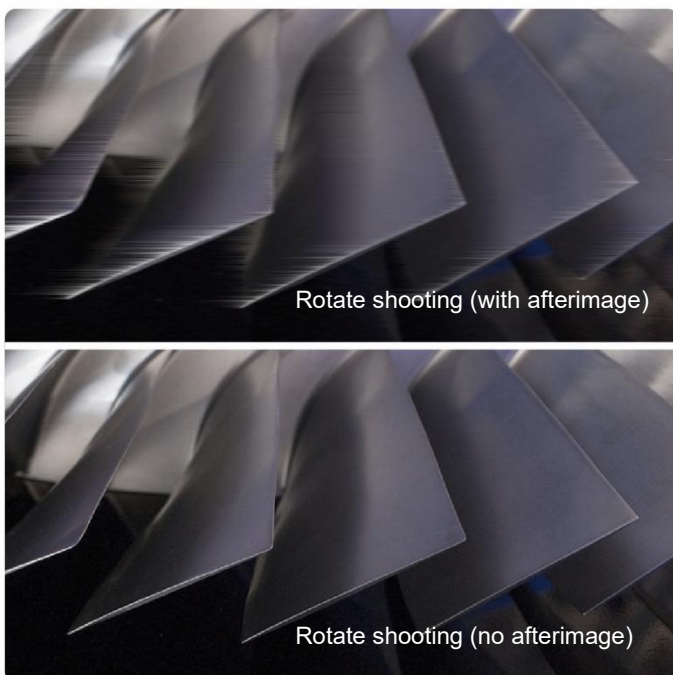
Can be configured with a variety of lighting sources

Three types of light sources optional: infrared light, white light, and UV light. It is white light by default and you can choose two at one time, two types light sources can be switched quickly by one button. It is suitable for inspecting requirements in different environments and can judge subtle defects more effectively.



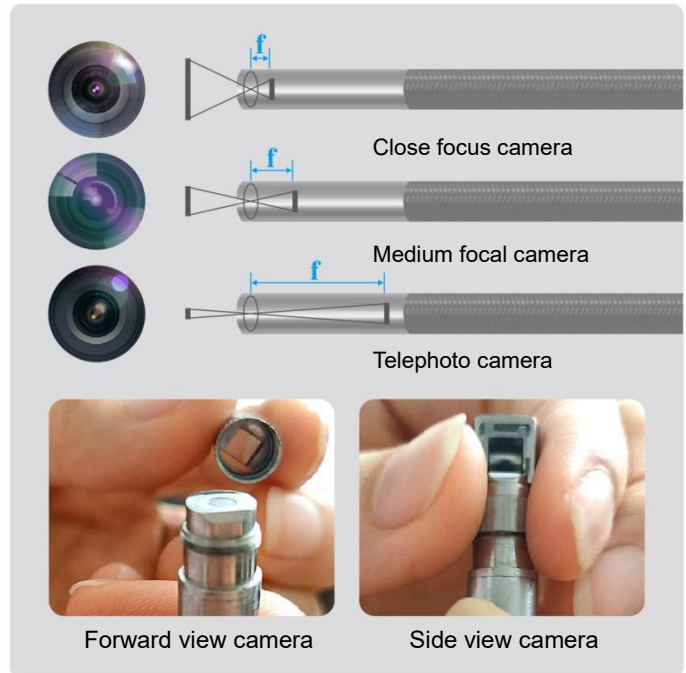
High frame rate image sensor (optional)

The response speed is faster than ordinary image sensors, the image is smoother, and the picture delay, afterimage and jitter are effectively reduced, and the rotating or fast-moving objects can be better observed.



Can replace cameras with different focus

The tube system can be used with cameras of different specifications such as forward-view and side-view, far focus, close focus, medium focus, wide angle, telephoto camera, measurement camera, etc. It is suitable for inspecting targets at different distances and presents clearer images.



Dual engine power supply, long battery life

It adopts dual engine power supply, the handle is equipped with a rechargeable large-capacity battery, and the display has a built-in power supply. The two can be charged each other to achieve long battery life. and the use time can reach more than 7 hours.



2. Powerful Performance

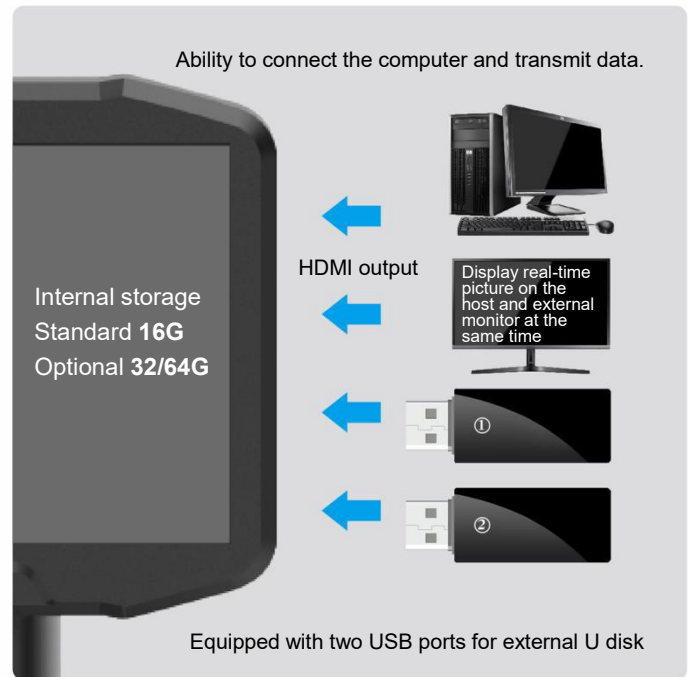
High precision 3D measurement function (optional high-grade configuration)

It can be upgraded to 3D measurement system (4mm/6mm tubes are optional), measuring the distance from point to point, point to line, point to surface (depth), the length of multi-segment and the area of closed graph. The measuring accuracy is 0.01mm and the error is $\leq 5\%$.



Large storage space

The host has built-in large capacity storage space (standard 16G, optional 32/64G). It is equipped with two USB ports for external U disk, which makes data access more convenient and quick.



3. Specifications

Host	
Display	5.44-inch FHD AMOLED touchscreen, can be replaced to 6-inch or other size display screen
Display resolution	1920*1080 pixels
User interface	Use menu navigation with touch screen, physical buttons and joystick
Zoom	7x times zoom in real-time inspection, still images can be partly 8x times zoom to check the details
Brightness adjustment	High and low brightness modes with 5 levels of brightness adjustment in each mode
Image mode	Original color mode, Black and white mode, Negative mode, High color mode, short range mode, far range mode
Screen backlight brightness	Adjustable
Image recording	Taking image and video, able to capture image during video recording;
Image freezing	Support
File format	Image: JPG, BMP; Video: MP4

Tube length	1-1.5m	1-3m	1-3m	1-3m	1-3m	1-7m	1-7m	1-3m	1-7m
Lighting mode	Front LED/rear-mounted LED,optical fiber light guiding								
Bending angle in one direction	≥120°	≥150°	≥150°	≥150°	≥150°	≥150°	≥150°	≥150°	≥150°
Measurement function	/							Supports point-to-point, point-to-line, point-to-surface, multi-segment and area measurement	
Measurement accuracy	/							0.01mm	
Measurement error	/							5%	
Probe articulation	360°all way								
Tube material	Tungsten braided wear-resisting tube								
Probe material	Titanium alloy protective housing								
Joystick control model	Mechanical control								
Tube compatibility	Replaceable consumable design								
Protective device	Buffer protection device for connecting host and wear resistant tube								
Protection level	IP67.Corrosion resistant, oil resistant tube can be customized								

Power supply	
Battery capacity	Host battery (non-removable) : voltage: 3.7V, capacity: 8000mAh; Handle spare battery (removable) :voltage: 3.7V, capacity: 5000mAh;
Working time	Host battery + spare battery ≥ 7 hours

Operating environment	
System	-10~50°C
Tip	-20~60°C
Storage temperature	-20~60°C
Relative humidity	15~90%

Stand accessories	Hostx1,Instrument casex1,Card readerx1,32G SD cardx1,Rechargeable lithium batteryx2,Chargerx1
Optional accessories	HDMI cable,Rigidzer,Centralizer

Custom services	
1.Tube length, diameter and lighting mode can be customized according to customer requirements.	
2.Tube can be added with ruler scale.	
3.Software function customization.	
4.Customizable display screen.	
5.Lens customizable.	