# 2.Powerful Performance

#### **High-Precision 3D Measurement Function (Optional** Advanced Configuration)

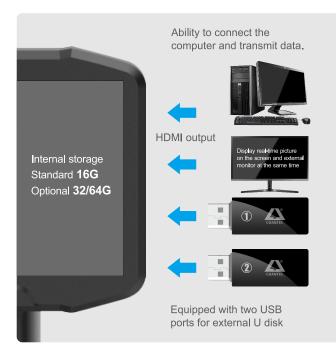
4mm, 6mm, and 8mm insertion tubes. It supports various measurement with optional 32GB or 64GB). Equipped with two USB ports, it allows modes, including Length, Vertical, Depth, Multisegments, Area, Missing for easy connection to external USB drives, ensuring quick and corner, Sectional, Circles, Gap, with measuring accuracy of 0.01mm and convenient data access.



#### Large-Capacity Storage

The system can be upgraded to a 3D measurement system, compatible with

The system features built-in high-capacity storage (standard 16GB,



# 3. Technical Specification

Display type				<ul><li>Standa</li></ul>	rd	<ul> <li>Optional</li> </ul>	<ul> <li>Not availab</li> </ul>
Display size 5.5-inch  Resolution 1280*720  Detachable design	Host System						
Resolution 1280*720  Detachable design	Display type	LCD to	uch displ	lay			
Detachable design  User interface  Navigation via touchscreen and physical buttons  Standard storage capacity of the host   16G  Expandable memory capacity   •	Display size	5.5-inc	h				
User interface  Navigation via touchscreen and physical buttons  Standard storage capacity of the host   16G  Expandable memory capacity   •	Resolution	1280*7	720				
Standard storage capacity of the host   16G  Expandable memory capacity   Photography function   Image storage format   JPG/BMP   Video recording function   Video storage format   MP4   Real-time image magnification   1-5 times (supports multi-touch pinch-to-zoom gestures)   Adjustable LED brightness levels   Levels0-9   Image quality adjustment   Adjust image brightness, contrast, hue, saturation, sharpness, gammia, and restore to default   Image color adjustment   Optional modes include default, monochrome, negative, vivid, high contrast, so   Image rotation   Mirroring   Mirroring   Major   Real-time image comparison   Time watermark   Custom report   Mirroring   Real-time image comparison   Mirroring   Mirroring	Detachable design	•					
Expandable memory capacity  Photography function  Image storage format  Video recording function  Video storage format  MP4  Real-time image magnification  Adjustable LED brightness levels Image quality adjustment  Image color adjustment  Manual adjustment of display brightness  Image rotation  Image freeze  Mirroring  Real-time image comparison  Time watermark  Location watermark  Custom report  Ruler  No scale, circular scale, cross scale, or reference lines  Bluetooth  WiFi  File sharing	User interface	Navigat	tion via t	ouchscreen and	physi	cal buttons	
Photography function Image storage format Video recording function Video storage format Video storage format MP4  Real-time image magnification 1-5 times (supports multi-touch pinch-to-zoom gestures)  Adjustable LED brightness levels Levels0-9  Image quality adjustment Optional modes include default, monochrome, negative, vivid, high contrast, so Image rotation Image rotation Image freeze  Mirroring Real-time image comparison Time watermark Custom report Custom report  Ruler No scale, circular scale, cross scale, or reference lines  Bluetooth WiFi  File sharing	Standard storage capac	ity of the	host 1	6G			
Image storage format	Expandable memory ca	pacity	•				
Video recording function  Video storage format  MP4  Real-time image magnification  Adjustable LED brightness levels  Image quality adjustment  Image color adjustment  Manual adjustment of display brightness  Image freeze  Mirroring  Real-time image comparison  Time watermark  Location watermark  Custom report  Ruler  No scale, circular scale, cross scale, or reference lines  Bluetooth  WiFi  File sharing  MP4  1-5 times (supports multi-touch pinch-to-zoom gestures)  Levelso	Photography function	•					
Video storage format       MP4         Real-time image magnification       1-5 times (supports multi-touch pinch-to-zoom gestures)         Adjustable LED brightness levels       Levels0-9         Image quality adjustment       Adjust image brightness, contrast, hue, saturation, sharpness, gamma, and restore to default         Image color adjustment       Optional modes include default, monochrome, negative, vivid, high contrast, so and restore to default         Manual adjustment of display brightness       ■         Image rotation       Image freeze         Mirroring       ■         Real-time image comparison       ■         Time watermark       ■         Location watermark       ■         Custom report       ■         Ruler       No scale, circular scale, cross scale, or reference lines         Bluetooth       ■         WiFi       ■	Image storage format	JPG/BI	MP				
Real-time image magnification  Adjustable LED brightness levels  Image quality adjustment Image color adjustment  Manual adjustment of display brightness  Image freeze  Mirroring  Real-time image comparison  Time watermark  Custom report  Ruler  No scale, circular scale, cross scale, or reference lines  Bluetooth  Wifi  Image magnification  1-5 times (supports multi-touch pinch-to-zoom gestures)  Levels0-9  Levels0-9  Levels0-9  Levels0-9  Levels0-9  Optional modes include default, monochrome, negative, vivid, high contrast, so the state of default in	Video recording functio	n •					
Adjustable LED brightness levels   Levels0-9   Image quality adjustment   Adjust mage brightness, contrast, hue, saturation, sharpness, gamma, and restore to default   Image color adjustment   Optional modes include default, monochrome, negative, vivid, high contrast, so   Image rotation   Image freeze   Image freeze   Image freeze   Image mage comparison   Image comparison   Image color watermark   Image freeze   Image fr	Video storage format	MP4					
Image quality adjustment   Adjust image prightness, contrast, hue, saturation, sharpness, gamma, and restore to default monochrome, negative, vivid, high contrast, so Manual adjustment of display brightness   •	Real-time image magnit	fication	1-5 tir	mes (supports m	ulti-t	ouch pinch-to-zoo	m gestures)
Image color adjustment  Manual adjustment of display brightness  Image rotation  Image freeze  Mirroring  Real-time image comparison  Time watermark  Location watermark  Custom report  Ruler  No scale, circular scale, cross scale, or reference lines  Bluetooth  WiFi  File sharing	Adjustable LED brightne						
Manual adjustment of display brightness  Image rotation  Image freeze  Mirroring  Real-time image comparison  Time watermark  Location watermark  Custom report  Ruler  No scale, circular scale, cross scale, or reference lines  Bluetooth  WiFi  File sharing	Image quality adjustme	nt Adju	ıst image l pness, gar	orightness, contras nma, and restore i	t, hue to defi	, saturation, ault	
Image rotation Image freeze  Mirroring Real-time image comparison Time watermark Location watermark Custom report Ruler No scale, circular scale, cross scale, or reference lines Bluetooth WiFi File sharing	Image color adjustment	Opti	onal mod	es include default	, mon	ochrome, negative,	vivid, high contrast, sc
Image freeze  Mirroring  Real-time image comparison  Time watermark  Location watermark  Custom report  Ruler  No scale, circular scale, cross scale, or reference lines  Bluetooth  WiFi  File sharing	Manual adjustment of o	display bri	ghtness	•			
Mirroring  Real-time image comparison  Time watermark  Location watermark  Custom report  Ruler  No scale, circular scale, cross scale, or reference lines  Bluetooth  WiFi  File sharing	Image rotation	•					
Real-time image comparison  Time watermark  Location watermark  Custom report  Ruler  No scale, circular scale, cross scale, or reference lines  Bluetooth  WiFi  File sharing	Image freeze	•					
Time watermark  Location watermark  Custom report  Ruler  No scale, circular scale, cross scale, or reference lines  Bluetooth  WiFi  File sharing	Mirroring	•					
Location watermark  Custom report  Ruler  No scale, circular scale, cross scale, or reference lines  Bluetooth  WiFi  File sharing	Real-time image compa	rison	•				
Custom report  Ruler  No scale, circular scale, cross scale, or reference lines  Bluetooth  WiFi  File sharing	Time watermark	•					
Ruler No scale, circular scale, cross scale, or reference lines  Bluetooth  WiFi  File sharing	Location watermark	•					
Bluetooth WiFi File sharing	Custom report	•					
WiFi File sharing	Ruler	No scal	e, circula	ır scale, cross sca	ale, o	r reference lines	
File sharing •	Bluetooth	•					
The sharing	WiFi	•					
LAN Video streaming	File sharing	•					
	LAN Video streaming	•					

Output Port		Size specification	s	
HDMI video output port	•	Host size	295mm <sup>-</sup>	*145mm*163mm
3.5mm audio output	0	Packaging size	480mm	428mm*200mm
USB 2.0 port	2	Host weight(including battery)		≤1.5kg

Tip diameter ( ± 0.1mm)	0.95 /1.2/ 1.6/ 1.8/ 2 /2.8 /3.9/ 4.8/ 6 /8mm
Insertion tube length	1m <sup>~</sup> 10m optional (measurement function only supports insertion tubes with a diameter of over 4mm)
Depth of field (mm)	5-50/5-100/10-100/50-∞
Field of view	70° / 80° / 100° / 120°*
Camera pixels	160K/300K/1M/2M*
Replaceable insertion tu	be •
Replaceable lens	0
View direction	Direct view/side view/dual view
Lighting mode	Front LED/rear-mounted LED + optical fiber
Lighting source	White light/infrared/ultraviolet
Tip guidance control	Mechanical 360° all-way articulation
Tube unidirectional bend	ding angle ≥160°*
Tip material	Super hard alloy protective shell
Insertion tube material	Tungsten wire wear-resistant braided tube

Power Parameters	
Power input	INPUT: 220±10%V 50Hz mains electricity
Output	OUTPUT:12V 3A
Host battery capacity	3000mAh 7.4V
Handle battery capacity	3200mAh 7.4V
Continuous working tim	≥6h

# 3.Technical Specification

Host dustproof and waterproof rating IP55

<ul> <li>Standard</li> </ul>	<ul> <li>Optional</li> </ul>	<ul> <li>Not available</li> </ul>

F:1	Setting storage path/creating/renaming folders Full-screen viewing/image zooming/			
File management	deleting/renaming/viewing details/sharing/moving images or video files, etc.			
Image zoom	Up to 5x magnification (supports multi-touch pinch-to-zoom gesture)			
tura e e elitria e	Text annotation, doodling feature (supports handwritten lines, arrows, boxes,			
Image editing	circular markings, text annotations, brush color and thickness settings)			
User permission ma	anagement Administrator, guest, standard user			
Menu language/	More than ten languages including Simplified Chinese, Traditional Chinese, Englis			
input method	Japanese, Korean, French, German, Portuguese, Spanish, Russian, Italian, and Dutch			
3D measurement system(optional)	9 measurement methods: Length, Vertical, Depth, Multisegment, Area, Missing comer, Sectional, Circle and Gap. 3D measurement accuracy			

Operating Envir	onment		Accessorie	s
System working ter	mperature	-20°C-60°C	Standard	Instrument case,32G U disk,Power
Tip working tempe	rature	-25°C-100°C	Standard	adapter,HDMI cable,Stand
Storage temperatu	re	-40°C-60°C	0-5	Pipe centralizer,Rechargeable lithium
Delegio de contela	Not great	er than 95%,	Optional	battery
Relative humidity	no conde	nsation		

Personalized Customization	
Insertion tube materials, lengths, diameters, and lighting mode can be customized as required	(
Insertion tube can be added with a graduated scale	(
Lens customizable	C
Software customizable	C
*For specific parameters (such as illuminance, depth of field, resolution, field of view, working ler	gth,

# COANTEC



Coantec X3 series

# **High Performance Multifunctional Industrial Videoscope**



#### SHENZHEN COANTEC AUTOMATION TECHNOLOGY CO.,LTD.

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## 2.Powerful Performance

#### **Mechanical Handheld Integrated Design**

The ergonomic handheld design ensures a comfortable grip for extended use. Featuring a mechanically controlled joystick, it offers precise probe articulation, responsive control with no delay, and an enhanced user experience. Lightweight and portable, it allows for quick and efficient inspections anytime, anywhere.



#### **Compatible with Various Insertion Tube Specifications**

A single host can be paired with insertion tubes of different specifications, with customizable length, diameter, and lighting options to meet specific requirements. This flexibility helps optimize costs while ensuring adaptability for various inspection needs.



#### **High-Quality NDT Imaging**

Equipped with a megapixel high-definition camera, a built-in high-sensitivity image sensor, and a 5.5-inch HD LCD touchscreen, this system delivers sharp, detailed images with smooth and true-to-life visuals. It enables precise detection of subtle surface defects inside equipment and components.



#### Quick-Release Tube Replacement Design

Featuring a quick-release design, the tube can be replaced effortlessly without disassembling the nut. Simply turn the lock ring clockwise or counterclockwise to lock or release the tube in just 3 seconds, ensuring fast and efficient replacement.



## 2.Powerful Performance

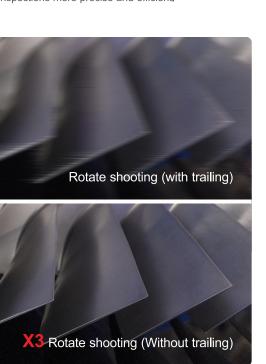
# **Configurable with Multiple Lighting Sources**

Supports three auxiliary lighting options: infrared, white, and UV light. Two sources can be selected simultaneously (default: white and infrared light) to enhance illumination. The supplementary lighting improves visibility, ensuring higher-quality inspection images.



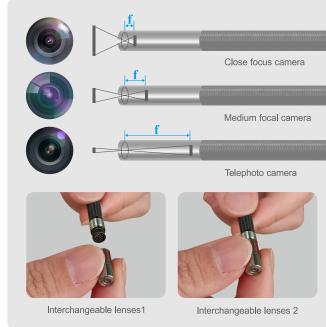
#### **Optional High-Frame-Rate Image Sensor**

With a faster response speed than standard image sensors, this option delivers smoother visuals while significantly reducing lag, afterimages, and jitter. It enhances the clarity of rotating or fast-moving objects, making inspections more precise and efficient.



#### Interchangeable Camera Tips with Various Focus Options

The system supports replaceable camera tips with different specifications, including forward-view, side-view, far-focus, close-focus, medium-focus, wide-angle, telephoto, and measurement cameras. This adaptability allows for inspection at varying distances, ensuring clearer and more precise imaging.



### **Dual Power Supply for Extended Battery Life**

The system features a dual power supply, combining a built-in high-capacity lithium polymer battery in the display and a replaceable backup battery in the handle. These batteries can charge each other, ensuring extended operation with a continuous working time of over 6 hours.

