COANTEC

CoantecNDT®

Coantec C40 series
Ultra HD Mega Pixel Industrial Videoscope

- 720P HD industrial camera
- 360° all-way articulation
- Quick replacement of insertion tubes in various sizes within 20 seconds
- 0.95-6mm tube diameters available
- Lifetime warranty for rear-mounted LED light source
- Strong environmental adaptability
- Magnetic base



360° all-way articulation

reddot design award
German Red Dot Award

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C40 Detecting metal pipelines

Customized Services

We provide more customized services,we can add the functions according to your request:

- Tube length, diameter and lighting mode can be customized
- Can add scale ruler on the tube
- Software function customization
- Customized replaceable forward view and side view camera
- Foreign matter clamping set
- WiFi module and recording module can be customized

For more customized solutions, please contact us.



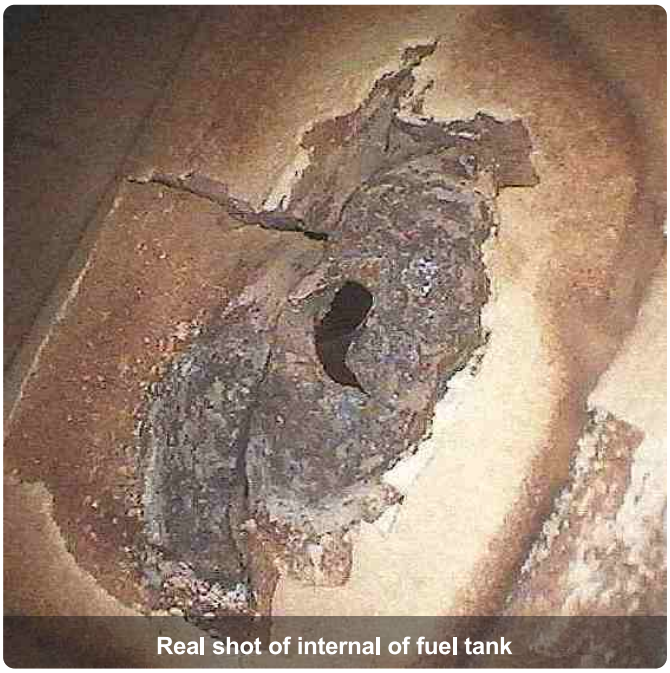
1.Brief Introduction

The C40 series is a high-definition industrial videoscope independently developed and produced by Coantec. It features a 3.5-inch HD display, an industrial-grade HD camera, and insertion tubes with a waterproof and dustproof rating of up to IP67. An oil-proof insertion tube can be customized, suitable for harsher environments. Users can independently replace insertion tubes of different diameters and lengths, achieving multiple uses with one machine and effectively saving costs. The system adopts an integrated handheld design, lightweight and portable, applicable to aerospace, energy and power, mechanical casting, automotive manufacturing, special inspection, etc., enabling surface defect detection inside various equipment or components.

2.Daylight Display + Super HD Camera

HDMI video output

C40 is equipped with a 3.5-inch daylight display and 1,000,000 pixels super HD camera. Real-time reflection of static images and dynamic video of the inspected object.



Real shot of internal of fuel tank



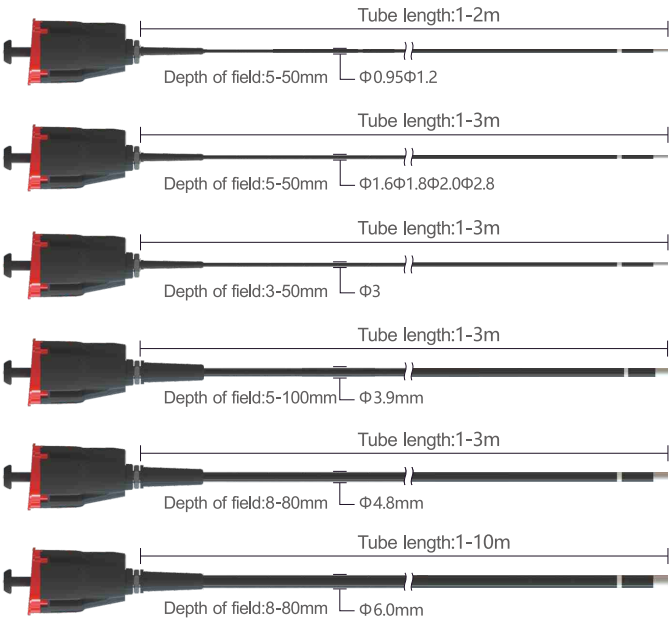
Real shot of inner wall of metal tubing

High quality image

It can shoot images and videos with clear image quality to help users conduct comprehensive and detailed diagnosis and analysis.

3.User-friendly insertion tube exchange

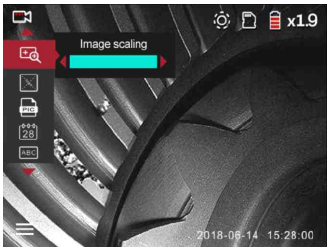
One host can be equipped with tubes with different diameters(0.95-6mm),lengths,depth of field,in order to satisfy the demands in different inspection applications.



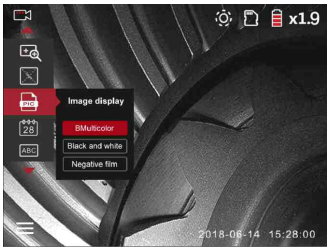


Easy Insertion Tube Replacement

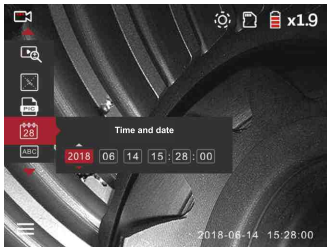
4.Powerful software functions



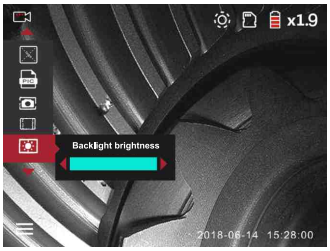
Supports 4× Digital Zoom



Selectable Image Modes:
Color / B&W / Negative



Time & Date Watermark Option



Adjustable Display Brightness



Real-Time Image Rotation



Crosshair Overlay for Positioning

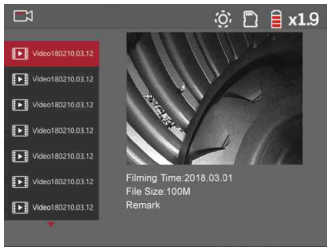


Image & Video Preview List



Video Playback Feature

5.Strong environmental adaptability





Application Fields

It can be widely used in aerospace, special inspection industry, energy and power, automotive aftermarket,automobile manufacturing, shipbuilding,rail transit,petrochemical industry,food and drug machinery,mold casting,mechanical processing,construction engineering,police safety, military equipment,testing of municipal pipelines,university research institutes and many other fields.

6.Technical Specification

Host System	
Display size	3.5-inch HD display
Monitor resolution	640*480
Image magnification	Support real-time 4x magnification and 8x magnification for image playback
LED brightness level	Adjustable from 0 to 7 levels
Auxiliary measurement function	Crosshair reference line
Photo and video recording function	Including photo and video recording capabilities, with snapshot feature available during recording
File format	Images are stored in JPEG/BMP format, videos in MP4 format
Image rotation	Images can be rotated 0°/90°/180°/270°
Image preview	Images can be previewed in list mode, allowing for full-screen viewing/deleting files/adding time watermarks, etc.
Screen backlight brightness	Adjustable in three levels
Output port	Micro HDMI
Language	More than ten languages including Simplified Chinese, Traditional Chinese, English,
	Japanese, Korean, French, German, Portuguese, Spanish, Russian, Italian, and Dutch
Host size	240mm*102mm*126mm
Packaging size	411mm*321mm*165mm
Host weight	0.45kg (including battery)

Insertion Tube System									
Tip diameter (±0.1mm)	0.95	1.2	1.6 /1.8	2	2.8	3	3.9	4.8	6
Camera pixels	160K	160K	160K	160K	160K	1M	1M	1M	1M
View direction	Direct view	Direct view	Direct view	Direct view	Direct/ Side view	Direct view	Direct/ Side view	Direct/ Side view	Direct/ Side view
Depth of field(mm)	5-50	5-50	5-50	5-50	5-50	3-50	5-100	8-80	8-80
Field of view	120°	120°	120°	120°	120°/70°	130°	120°/70°	120°/70°	120°/70°
Working length of insertion tube (m)	1-2m	1-2m	1-3m	1-3m	1-3m	1-3m	1-3m	1-3m	1-10m

Insertion Tube System									
Light mode: front LED / optical fiber	Front LED								
	Fiber	/	/	/	Fiber	/	Fiber	Fiber	Fiber
Tip guidance capability	None articulation		4-way	360° all-way articulation					
Tube unidirectional bending angle	/	/	/	150° for insertion tube length ≤3m; 120° for length ranging from 3-5m; 90° for length ≥7m					
Insertion tube material	Braided silicone tube	Tungsten alloy wear-resistant braided tube							
Tip material	Hard alloy protective shell								
Guidance control method	/	/	Mechanical control						
Compatibility	Replaceable insertion tube								
Protection device	Buffer protection device for connection between host and wear-resistant tube								
Tip waterproof rating	/	/	/	IP67					

Power Technical Parameters	
Power supply mode	Rechargeable lithium battery (with reverse polarity protection)
Battery	3.6V, 3400mAh
Host working time	≥4H

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

Configuration	
Standard Configuration	Host x 1, Dedicated Instrument Case x 1, Strong Magnetic Base x 1, Rechargeable Lithium Battery x 1, Charger x 1, Card Reader x 1, 8G TF Storage Card x 1, Wrist Strap x 1, User Manual x 1