

CX Series Motor-driven 3D Measurement Videoscope



Convenient Practical Instrument for DNT in Aerospace



The super image processing system can restore the real image effect. The product is durable and suitable for a variety of application scenarios.

Meet the Requirements of Various Detection Environments and has Wide Application Scenarios

Intelligent touch screen to restore real image effect

- 7-inch intelligent touch screen, sensitive touch and accurate operation
- The screen brightness can be adjusted and the image can be clearly seen
- Ultra clear image quality and highly restore the real effect of the image
- Parametric adjustment of image effect to grasp the defect situation at any time

Rugged and suitable for different scenes

- 4-layer wear-resistant tungsten wire tube, the wear resistance is 20 times than the ordinary tube
- The probe, objective lens and tube system shall be IP67 waterproof
- The shell is made of engineering alloy and aviation aluminum alloy, which is firm and durable
- The products have undergone strict high and low temperature, drop, vibration and other tests

Intelligent File Management, Providing Professional Test Reports

MDI report generation and intelligent file management functions provide users with professional detection reports.



MDI report function, generate test report

- Select the photo and give a text description of the defect below the picture
- Graffiti notes can directly circle defects and cracks on the drawing
- Watermark annotation, and you can customize "qualified, crack" and other marks
- Generate report, which can be saved in USB flash disk, internal storage or transfered to mobile device via Bluetooth

Intelligent and convenient file management

- The file name can be preset or renamed
- New folders can be created to quickly find files
- Support picture/video preview and graffiti annotation pictures
- Pictures, videos and test reports can be deleted or exported with one click

3D Cloud Scanning Modeling and Rapid Measurement



3D measurement, measurement accuracy≥95%

- Point to point, point to line, polyline, area, depth and other measurement methods
- Measurement accuracy ≥ 95%
 Standard accuracy: 0.1mm
 Minimum accuracy: 0.01mm
- Fine tuning navigation keys and window assistance, fine tuning point selection, confidence assisted point selection and accurate measurement
- Shoot and measure immediately, and the measured image supports repeated measurement



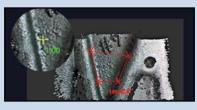
Point to line distance



Measuring perimeter



Measuremen t area



Confidence assisted point

High precision and fast global scanning 3D cloud image

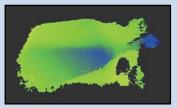
- Fast global scanning to view 3D physical cloud image
- Vertical depth cloud map, automatic measurement of maximum depth
- 3D cloud image XYZ coordinate display, arbitrary section view, easy to locate the depth and height difference of internal defects
- the datum plane shifts and the depth value changes in real time



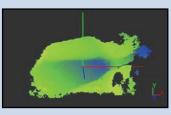
3D physical cloud image



Profile



Vertical depth nephogram



Cloud 3D coordinates

Accurate Articulation with Joystick, Super Compatible Tube







360°All-way accurate articulation

Maximum Bending Angle≥180°

360°All-way accurate articulation with joystick. The maximum bending angle ≥180°. Damping type positioning design and precise probe locking technology makes the detection more accurate and efficient.

Illuminance

With super bright LED ceramic light source or optical fiber lighting,the illuminance can reach to 1,000,000 Lx.



Photo / video

Gun type one click to take photos and video,make the operation convenient and fast



Rotation speed

One click control, fast/slow electric rotation, automatic reset



Probe positioning

One click lock probe, fine adjustment, precise positioning



- Modular design, and the host system, tube system and power supply system can be disassembled and separated.
- Independently replace the 1.0mm~8.0mm tube system to meet the needs of different working conditions.



Craftsmanship, Military Quality

We have obtained more than 10 invention patents and software copyrights, passed ISO9001/14001 system certification. Us product got CE, RoHS certificates, certificate from the Ministry of Public Security Testing Center and QC inspection report from Ceprei, Credit Rating Certification, GJB9001 National Military Standard System Certification, Explosion Proof Certification, etc.

Battery Module

Working Time≥4h,support charging while use. Replaceable monitor makes the operation simple and convenient.

Ergonomic Design

The anti falling and anti-skid design of the whole machine makes the operation more comfortable.

Easy and portable

Equipped with shoulder straps and reserved universal support interface, it is convenient to operate in complex environment.

Interface

- HDMI interface can output the detection situation in real time
- USB interface supports USB flash disk to store and transfer files
- SD card slot, with a maximum capacity of 128G



WiFi wireless image transmission

- WiFi wireless connection, and the mobile device synchronously displays the detection image Take photos / videos remotely through app and
- save test pictures
- Error reporting notes



Probe temperature measurement

- Real time display of detected ambient temperature
- High temperature alarm function, power off when overheating

Monitor	System										
Structure		Hand-held integrated design		Standard Accuracy	y	0.1mm					
Display		7 inch touch screen, humanized Interface keys		Minimum Accuracy	Minimum Accuracy		0.01mm				
Outer Case Material		Engineering allo aviation aluminu		Measurement Acc	uracy	≥95%					
Tube Material		tungsten-braide	d	Rotation Mode		360°All-way accurate articulation with joystick					
Display Resolution		1920*1200		Probe Positioning		Fine adjustment, precise positioning					
Light Source		Optical fiber/LE	D	Tube Length		1.5m/2m/3m (other lengths can be customized)					
Bending Angle		180°		Working Time		4h, support charging while use					
FOV		90°/120°		Battery Capacity		7.4V/6400mAH					
Video Output		HDMI same scr	een output	Storage Medium		Memory storage, SD card, USB flash disk (optional)					
Waterproof and Dustproof Grade		The probe, obje tube can withsta waterproof		Weight		≈ 2.3 kg (battery included)					
Monitor System		Real time intelli operation	gent multitasking	Compatibility		Compatible with different tube systems					
Data Port		HDMI port、USB port、type-c port、SD card port、3.0earphone port									
Standard Configuration Special instrument box、videoscope、battery module, charger、 card reader、 memory card、 dat operation manual、 certificate etc.											
Tube Sy	stem										
Probe Diameter (mm)	Camera Pixels	Tube Length	View	DOF	FOV	Light Source	Articulation				
8.0mm/ 6.0mm	1mega pixels	1m~10m	front	10-100mm	120°	LED/optic fiber	360°all-way				
			side	3-25mm/10-110mm	90°/120°	LED	360°all-way				
	1mega pixels	≤ 3m	3D measurement	10-100mm	120°	optic fiber	360°all-way 360°all-way				
3.8mm	1mega pixels	1m~10m	front	10-100mm 120°		LED/fiber	360°all-way				
5.01111			side	3-25mm/10-110mm	3-25mm/10-110mm 90°		360°all-way				

Parameter

	300,000pixels	≤ 3m	3D measurem			5-50mm	optic fiber		60°all-way 60°all-way			
0.0		4 2	front			5-50mm	120°	LED/optic fiber	360°all-way		vay	
2.8mm 300,000pixe		1m~3m	side			5-50mm	120°	LED 36		60°all-way		
2.2mm	300,000pixel	1m~3m	front			5-50mm	120°	LED/optic fiber 30		360°,two-way		
1.8mm	300,000pixel	1m	froi	nt		5-50mm	120°	LED/optic fiber tv		two-way		
1.0mm	40000pixel	1m	front			5-50mm	120°	LED/optic fiber	no d	no direction		
Product F	unction Selecti	on	1				1					
	Func	tion		CX7 C	X7M		Functio	on		CX7	CX7M	
Image forr	nat: jpg			√		Wireless image transmission: wirelessly transmit images to mobile phones, computers and other terminals						
Video form	nat: MP4			\checkmark	\checkmark	Probe temperature display: probe temperature display and high temperature alarm (optional)						
Rotation:	fast/slow electric	rotation, auton	natic reset	\checkmark	\checkmark	Delayed exposure function						
Probe Lo	Probe Lock : step fine adjustment, precise				\checkmark	Vector diagram coordinates: the vector indication diagram of guiding orientation and curvature is displayed on the screen						
Lighting: light continuous automatic adjustment and 5-gear manual adjustment					\checkmark	Intelligent file management: support copying, renaming, deleting and generating reports of files in internal storage, SD card and USB storage media						
Zoom in/out: 8X					\checkmark							
Image display scale: image 1:1 / full screen												
•	Image resolution: 1920 x1080/1280 x 720/640 x 480					Language : English / French / German / Japanese / Traditional Chinese /Simplified Chinese / Korean / Italian						
Image adjustment: brightness, contrast, gamma, chroma, saturation, sharpness					\checkmark							
Image Effe	Image Effects: negative、black-and-white film					MDI report generati			V			
White bala	White balance: automatic white balance					edit the text description under the picture, create the test report and Bluetooth transmission test report						
Image freeze: Freeze the view and call the brush to save the graffiti in real time					\checkmark	3D measurement: point to point, point to line, point to surface measurement of depth, area, perimeter, etc. fine tune the						
Image mirroring and rotation: 0°、90°、180°、270°						navigation key and window assistance, confidence assistance to select points, and the measured image can be measured						
Graffiti notes: text notes, graffiti, watermark				\checkmark	\checkmark	repeatedly						
Dual camera preview: dual camera dynamic display on the same screen					\checkmark	Cloud image: vertical depth cloud image, 3D physical cloud image, local section, arbitrary section, XYZ coordinate display						
Picture in picture: the main screen image and small window photo can be switched arbitrarily				\checkmark	\checkmark							
Front/side on the same screen: front-view /side-view are displayed on the same screen					×	depth dimension						

CX7M 3D Measurement Series

Model	Display	Tip Dia.	Length	Articulation	Camera Pixels	Bend Angle	Side View for Option
CX7M-38014	7"	Ø3.8mm	1M	360°	1mega	180°	
CX7M-38024	7"	Ø3.8mm	2M	360°	1mega	170°	1
CX7M-38034	7"	Ø3.8mm	3M	360°	1mega	160°	1
CX7M-60014	7"	Ø6.0mm	1M	360°	1mega	180°	1
CX7M-60024	7"	Ø6.0mm	2M	360°	1mega	170°	Yes
CX7M-60034	7"	Ø6.0mm	3M	360°	1mega	160°	1
CX7M-80014	7"	Ø8.0mm	1M	360°	1mega	180°	1
CX7M-80024	7"	Ø8.0mm	2M	360°	1mega	170°	1
CX7M-80034	7"	Ø8.0mm	3M	360°	1mega	160°	1

CX7 Non 3D Measurement Series

					Camera	Bend	Side View
Model	Display	Tip Dia.	Length	Articulation	Pixels	Angle	for Option
CX7-1001	7"	Ø1.0mm	1M	-	40,000	-	
CX7-18012	7"	Ø2.8mm	1M	2-way	300,000	180°	
CX7-22012	7"	Ø2.2mm	1M	2-way	300,000	180°	
CX7-22022	7"	Ø2.2mm	2M	2-way	300,000	170°	Non
CX7-22032	7"	Ø2.2mm	3M	2-way	300,000	160°]
CX7-22014	7"	Ø2.2mm	1M	360°	300,000	180°	1
CX7-22024	7"	Ø2.2mm	2M	360°	300,000	170°	1
CX7-22034	7"	Ø2.2mm	3M	360°	300,000	160°	1
CX7-28014	7"	Ø2.8mm	1M	360°	300,000	180°	Yes
CX7-28024	7"	Ø2.8mm	2M	360°	300,000	170°	Yes
CX7-28034	7"	Ø2.8mm	3M	360°	300,000	160°	Yes
CX7-38014	7"	Ø3.8mm	1M	360°	1mega	180°	Yes
CX7-38024	7"	Ø3.8mm	2M	360°	1mega	170°	Yes
CX7-38034	7"	Ø3.8mm	3M	360°	1mega	160°	Yes
CX7-38044	7"	Ø3.8mm	4M	360°	1mega	160°	Yes
CX7-38054	7"	Ø3.8mm	5M	360°	1mega	160°	Yes
CX7-38064	7"	Ø3.8mm	6M	360°	1mega	160°	Yes
CX7-60014	7"	Ø6.0mm	1M	360°	1mega	160°	Yes
CX7-60024	7"	Ø6.0mm	2M	360°	1mega	160°	Yes
CX7-60034	7"	Ø6.0mm	3M	360°	1mega	150°	Yes
CX7-60044	7"	Ø6.0mm	4M	360°	1mega	140°	Yes
CX7-60054	7"	Ø6.0mm	5M	360°	1mega	130°	Yes
CX7-60064	7"	Ø6.0mm	6M	360°	1mega	120°	Yes
CX7-60074	7"	Ø6.0mm	7M	360°	1mega	110°	Yes
CX7-60084	7"	Ø6.0mm	8M	360°	1mega	100°	Yes
CX7-60094	7"	Ø6.0mm	9M	360°	1mega	90°	Yes
CX7-60104	7"	Ø6.0mm	10M	360°	1mega	80°	Yes
CX7-80014	7"	Ø8.0mm	1M	360°	1mega	160°	Yes
CX7-80024	7"	Ø8.0mm	2M	360°	1mega	160°	Yes
CX7-80034	7"	Ø8.0mm	3M	360°	1mega	150°	Yes
CX7-80044	7"	Ø8.0mm	4M	360°	1mega	140°	Yes
CX7-80054	7"	Ø8.0mm	5M	360°	1mega	130°	Yes
CX7-80064	7"	Ø8.0mm	6M	360°	1mega	120°	Yes
CX7-80074	7"	Ø8.0mm	7M	360°	1mega	110°	Yes
CX7-80084	7"	Ø8.0mm	8M	360°	1mega	100°	Yes
CX7-80094	7"	Ø8.0mm	9M	360°	1mega	90°	Yes
CX7-80104	7"	Ø8.0mm	10M	360°	1mega	80°	Yes

GMGA MEASURING



Address: No. 33 Alley 99/120 Dinh Cong Ha, Dinh Cong Ward, Hoang Mai District, 10000 Hanoi City, Vietnam Telephone: <u>+84 845 969 336</u> Email: <u>info@gmga.vn</u> Website: <u>https://gmga.vn/</u>