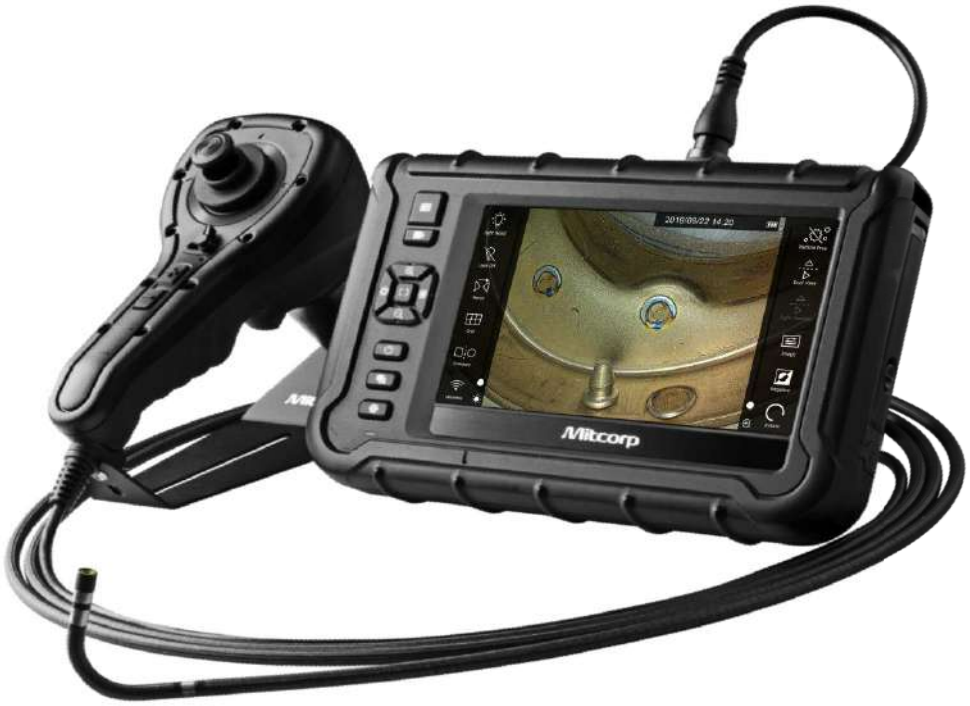
Mitcorp

INDUSTRIAL VIDEOSCOPE

X SERIES



X2000

VIDEOSCOPE

MIL-STD

810

APPROVED

Advanced Features, Instantly Accessible



Full Screen Clarity

A 7-inch LCD touchscreen puts precision at your fingertips, ensuring no minor defect goes unnoticed.

Auto Exposure / Manual Exposure

Take control with the touchscreen—adjust exposure effortlessly for the darkest shadows or brightest highlights.

Excellent User Interface

A vast range of different functions ensure the best user experience, catering all your individual needs for your next inspection.

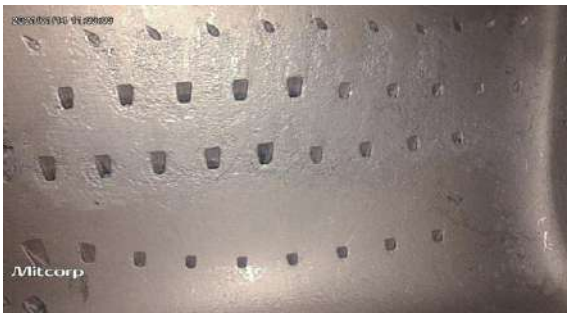
Control Your Depth. Expand Your Vision

One host, total flexibility—switch between a 3.9mm probe with a wide 120° FOV or a 6.0mm probe for sharper detail at 95°.

DOF & FOV your way—broad coverage or detailed focus, all controlled within a single system.



1600 x 1600 3.9 mm probe



2560 x 1440 6.0 mm probe

Advanced File Management

Stay organized with the X2000 HD. Its file management system lets you sort footage into folders, add tags, and include notes or annotations—making it simple to track every inspection with ease.





Smooth Mechanical Articulation Control

The X2000's advanced mechanical articulation system ensures effortless probe movement with precise joystick control. Easily maneuver in tight spaces, then lock the position instantly for stable, accurate inspections—combining flexibility with reliability.





Connect Your Way
All the Outputs You Need

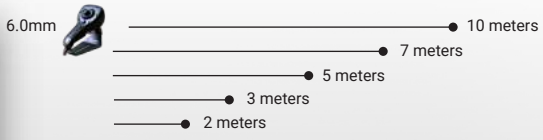
HDMI, USB, and Wi-Fi—everything you need for flexible image viewing and data management. Share instantly with mobile devices, or use the ***VideoscopeNow*** app for total control.

Interchangeable Probes

Swap modular components with ease—tailor your videoscope to every inspection challenge.

Probes:
- 6.0mm, 2m, 3m, 5m, 7m, 10m
- 3.9mm, 1.5m, 3m
- 2.8mm, 1.5m









One host,
endless probe possibilities







Quick-Connect 8-Pin Design

Easily attach the host unit and probes with the 8-pin connector—fast, reliable, and done in a second.



Smart Inlay Design

With its inlay probe design, the X2000 trolley case safeguards your probe and makes inspections smoother than ever.

Rugged & Durable

With an IP67 waterproof rating, X2000 performs reliably even in wet conditions. Its robust design endures temperatures up to 100°C and includes a smart high-temperature warning system for added safety. A three-stage temperature warning system keeps you informed as heat levels rise, ensuring you can take action before performance is affected. For added protection, the unit features an automatic shutdown function that activates under extreme.



Engineered & Tested for Reliability

The X2000 built to meet U.S. Department of Defense MIL-STD 810 standards. Rigorously tested for protection against:

US MILITARY GRADE MIL-STD 810

- Vibration
- Transit drops
- Salt and fog
- Humidity
- Explosives atmosphere

Dual Directions, One Probe Set-up

The X2000 probes feature a dual-view setup, allowing seamless switching between front and side views without removing the probe from the inspection environment or adding mirror tips.

This innovative design significantly reduces inspection time and downtime.

Equipped with dual LEDs, the system ensures optimal illumination for both viewing angles, delivering clear and precise results.



A X2000 A 3.9mm 1600x1600, front view



B X2000 3.9mm 1600x1600, side view

Dual View Probe Design

A Front View Camera

6.0mm: 2560x1440 pixels FOV 95° DOF 8 mm~∞
3.9mm: 1600x1600 pixels FOV 120° DOF 5~100 mm
2.8mm: 800x800 pixels FOV 120° DOF 3~∞

B Side View Camera

6.0mm: 2560x1440 pixels FOV 95° DOF 7 mm~∞ / 5~100mm
3.9mm: 1600x1600 pixels FOV 120° DOF 5~100 mm
2.8mm: 800x800 pixels FOV 120° DOF 3~∞



C Enhanced Neck Design

The 2nd generation of Mitcorp neck design has more joints, and smaller gaps. Provides better protection for internal wiring and stronger resistance against strikes—ensuring long-lasting durability.

Stronger Cables Material

Higher resistance to curvy bending and ensures improved durability, extending the lifespan of the probe under demanding inspection conditions.

Enforced Front Tip Design & Cable Shielding

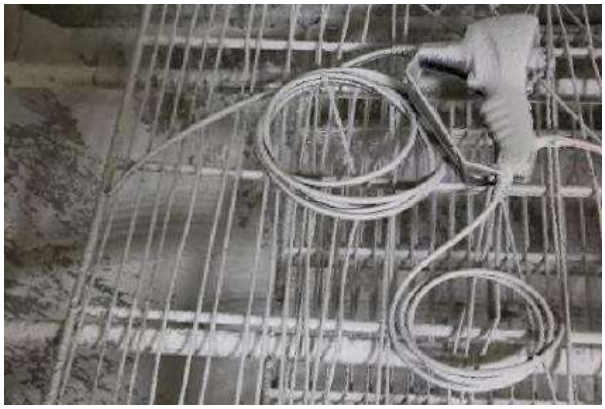
The newly engineered front tip incorporates shock-absorbing silicon material, providing enhanced durability and protection. Higher EMI/EMS protection, ensuring stable performance and reliable signal transmission.

Advanced Light Exposure Control



Mitcorp's light exposure technology enables inspectors to fine-tune illumination for every inspection scenario.

By adjusting LED intensity, ISO sensitivity, and shutter speed—across four stages—the system ensures optimal visibility in both dark and overly bright environments.



X2000 Probe under dust and water proof test

Probe Specifications:

100°C Heat Resistance
Reliable performance in high-temperature environments

Ultra-Luminance Front LED
Bright, clear illumination for detailed inspections

IP67 Water/Dust proof
Durable protection for tough working conditions

Oil Resistance
The probe is engineered for durability and is resistant to gasoline, diesel, brake oil, transmission oil, and engine oil.

6.0mm Probe Centering Device

The centering device ensures the probe remains properly aligned within the inspection environment, providing more even light distribution.

By reducing friction and direct contact between the probe body and the inspected tube, it helps extend the probe's lifespan.

Acting as both a shock absorber and a protective shield, it enhances durability and inspection reliability.



18 mm Centering Device | 38 mm Centering Device | 65 mm Centering Device



6.0mm Probe with centering device
Better light distribution & overall view of the inspection environment



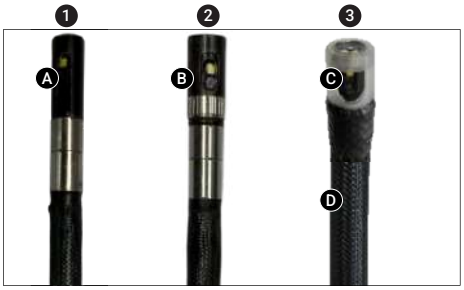
6.0mm Probe without centering device
Lack of light distribution & missing the upper view of the inspected environment

6.0mm Probe Protective Cap and Plastic Sleeve.

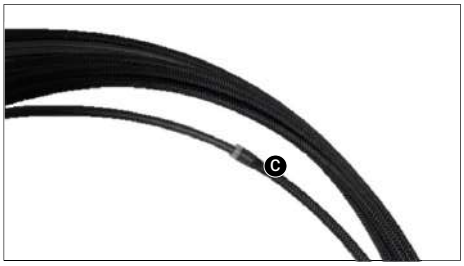
The protective cap provides additional durability in harsh environments such as oil & gas, pharmaceutical, and F&B industries, where probes may encounter pipe blockages, clogging, or uneven welding.

The plastic sleeve, on the other hand, is designed to safeguard the inspected environment itself—minimizing scratches and impacts. This extra care is especially important in pharmaceutical and F&B applications, where cleanliness and surface integrity are critical.

Probe Option	Probe Ø (W/ Sleeve)	Probe Ø (W/o Sleeve)	Probe Tip (W/ Cap)	Probe Tip (W/o Cap)
Standard Probe	n.a	6.0mm	n.a	6.0mm
Plastic Sleeve Probe	7.2mm	6.0mm	10.9mm	6.3mm
Protective Cap Probe	n.a	6.0mm	6.7mm	6.3mm



1. 6.0mm Standard probe
2. Optional: Probe with protective cap 7 & 10 meters
3. Optional: Plastic sleeve probe for 7 & 10 meters



- A 6.0mm standard probe
- B Threaded tip probe, with an additional B metal protective cap probe
- C Plastic tip cover
- D Plastic sleeve covers the tungsten probe - removable & changeable

ACCESSORIES

1. X2000 Host Unit
2. Probe
3. Trolley Case
   - Water Proof - IP67 Rated
   - Drop Resistant
4. Rigid Sleeve
   - 2pcs, Each 450mm Long
5. Sun Visor
6. Essenials
   - HDMI Cable
   - USB TYPE-C Cable
   - DC charging Cable
   - USB to DC Charging Cable
   - Cleaning Set
   - SD Card, 64GB
7. Holding Straps
   - Hand Straps
   - Shoulder Strap
8. Centering Devices
   - 18mm Centering Device
   - 38mm Centering Device
   - 65mm Centering Device



This case applied to:
- Standard probe option.
- Protective cap probe option.

For plastic sleeve probe, the case comes with exposed probe EVA reel

BASE UNIT	
Hardware	
Operating System	Mitcorp's OS
Display	7" LCD Touchscreen
Display Resolution	1024x600
Weight	1480g
Size	240x154x47 mm
Dimensions Of Carrying Case	574x361x225 mm
Battery	Rechargeable Li-ion battery 3.6V 9800mAh, approximate operation time; 5hrs, charging time: 4hrs
Drop Resistance	1 Meter
Connections	
HDMI	TYPE-D HDMI
Data Transfer	USB TYPE-C
Wi-Fi	IEEE 802.11.b/g
App Connection	VideoscopeNOW
Power Supply	AC adapter, 100V~240V, 120V 2.5. 50-60Hz
Storage Media	SDHC Card. Up to128GB
Microphone	Built-in
Software Manipulations	
Image Manipulations	Digital zoom and brightness control
Note Text Options	Text annotation
Watermark	Timestamp and *.png logo
Tags	Text tags
Image Configuration	Mirror, negative, grid (for dimensions)
Image Titration	White balance setup, brightness, contrast, saturation, and sharpness.
Folder Management	Sessions and folders
High Temperature Warning	3 Levels of warning, 60°C, 80°C, 100°C (Turn off)
Brightness Control	10 Levels: 1 to 8 exposure value, 9 to 10 Eexposure time, 10 boost function
Operating Environment	
System Operating Temperature	-10°C~50°C
Battery Charging Temperature	0°C~45°C
Storage Temperature	-20°C~60°C
In Water	Not operable in water
Relative Humidity	Max 95% non-condensing
Dust And Water Resistance	IP57
ACCESSORIES	
Cables	TYPE-C cable, HDMI cable, USB charging cable
Others	Rigid sleeve, shoulder strap, hand strap, sun visor, cleaning set
	Centering devices for 6.0mm only: 18mm, 38mm, 65mm
REGULATORY	
International Standards Organization (IEC)	
Degrees of Protection	IEC 60 529 (IP Rating IP57) The Base Unit
Degrees of Protection	IEC 60 529 (IP Rating IP67) The Probes
MIL-STD Compliance	
Vibration Test	MIL-STD-810G-CHG-1 Method 514.7
Transit Drop Test	MIL-STD-810G-CHG-1 Method 516.7
Salt Fog Test	MIL-STD-810G-CHG-1 Method 509.6
Humidity Test	MIL-STD-810G-CHG-1 Method 507.6
Explosive Atmosphere	MIL-STD-810G-CHG-1 Method 511.6
Other Regulatory	
Electromagnetic Compatibility (EMC)	
Federal Communications Commission (FCC)	
PSE (Circular)	
WEEE	
Restriction of Hazardous Substances 2011/65/EU (RoHS 2)	
Restriction of Chemicals Materials EC 1907/2006 – REACH	
Transportation for Lithium Batteries UN38.3	

PROBES

Standard 6.0mm Full Articulation Probes - Dual View

Model	60D4W-FS-2M-TU-M	60D4W-FS-3M-TU-M	60D4W-FS-5M-TU-M	60D4W-FS-7M-TU-M	60D4W-FS-10M-TU-M			
Diameter	6.0mm	6.0mm	6.0mm	6.0mm	6.0mm			
Length	2M	3M	5M	7M	10M			
Direction Of View	Dual view	Dual view	Dual view	Dual view	Dual view			
Probe Head Length	21.5 mm	21.5 mm	24.4 mm	24.4 mm	24.4 mm			
Field Of View (FOV)	95°	95°	95°	95°	95°			
Front Depth Of Field (DOF)	8 mm~∞	8 mm~∞	8 mm~∞	8 mm~∞	8 mm~∞			
Side Depth Of Field (DOF)	7 mm~∞	7 mm~∞	5~200 mm	5~200 mm	5~200 mm			
Still Image Resolution	2560x1440	2560x1440	2560x1440	2560x1440	2560x1440			
Video Resolution	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080			
Articulation	Full way	Full way	Full way	Full way	Full way			
Articulation Angle	≥ 145°	≥ 145°	≥ 130°	≥ 125°	≥ 110°			
Probe Head Material	S.Steel	S.Steel	S.Steel	S.Steel	S.Steel			
Probe Material	Tungsten	Tungsten	Tungsten	Tungsten	Tungsten			
Operating Temp. In Air	-10~100°C	-10~100°C	-10~100°C	-10~100°C	-10~100°C			
Operating Temp. In Water	10~30°C	10~30°C	10~30°C	10~30°C	10~30°C			
Dust & Water Resistance	IP67	IP67	IP67	IP67	IP67			
Optional Protective Cap[1]	-	-	-	Yes - Ø6.7mm	Yes - Ø6.7mm			
Optional Plastic Sleeve[2]	-	-	-	Yes - Ø9.7mm	Yes - Ø9.7mm			
Hydraulic Fluids Resistance	Gasoline, diesel, brake oil, transmission oil, engine oil							

Small Diameter - Full Articulation Probes - Dual View

Model	39D4W-FS-1.5M-TU-M	39D4W-FS-3M-TU-M	28D4W-FS-1.5M-TU-M					
Diameter	3.9mm	3.9mm	2.8mm					
Length	1.5M	3M	1.5M					
Direction Of View	Dual view	Dual view	Dual view					
Probe Head Length	21.6 mm	21.6 mm	11.5 mm					
Field Of View (FOV)	120°	120°	120°					
Front Depth Of Field (DOF)	5~100 mm	5~100 mm	3 mm~∞					
Side Depth Of Field (DOF)	5~100 mm	5~100 mm	3 mm~∞					
Still Image Resolution	1600x1600	1600x1600	800x800					
Video Resolution	1600x1600	1600x1600	800x800					
Articulation	Full way	Full way	Full way					
Articulation Angle	≥ 120°	≥ 120°	≥ 110°					
Probe Head Material	S.Steel	S.Steel	S.Steel					
Probe Material	Tungsten	Tungsten	Tungsten					
Operating Temp. In Air	-10~100°C	-10~100°C	-10~80°C					
Operating Temp. In Water	10~30°C	10~30°C	10~30°C					
Dust & Water Resistance	IP67	IP67	IP67					
Optional Protective Cap[1]	-	-	-					
Optional Plastic Sleeve[2]	-	-	-					
Hydraulic Fluids Resistance	Gasoline, diesel, brake oil, transmission oil, engine oil							

Full Articulation Probes - Front View

Model	60D4W-F-2M-TU-F	60D4W-F-3M-TU-F	60D4W-F-5M-TU-F	60D4W-F-7M-TU-F	39D4W-F-3M-TU-M	28D4W-FS-1.5M-TU-M	28D4W-F-1.5M-TU-M	
Diameter	6.0mm	6.0mm	6.0mm	6.0mm	3.9mm	2.8mm	2.8mm	
Length	2M	3M	5M	7M	3M	1.5M	1.5M	
Direction Of View	Front view	Front view	Front view	Front view	Front view	Dual view	Dual view	
Probe Head Length	19.3 mm	19.3 mm	19.3 mm	19.3 mm	13 mm	11.5 mm	11.5 mm	
Field Of View (FOV)	90°	90°	90°	90°	120°	120°	120°	
Front Depth Of Field (DOF)	25 mm~∞	25 mm~∞	25 mm~∞	25 mm~∞	5~100 mm	3 mm~∞	3 mm~∞	
Side Depth Of Field (DOF)	-	-	-	-	-	3 mm~∞	-	
Still Image Resolution	2560x1440	2560x1440	2560x1440	2560x1440	1600x1600	800x800	800x800	
Video Resolution	1920x1080	1920x1080	1920x1080	1920x1080	1600x1600	800x800	800x800	
Articulation	Full way	Full way	Full way	Full way	Full way	Full way	Full way	
Articulation Angle	≥ 120°	≥ 120°	≥ 80°	≥ 80°	≥ 140°	≥ 110°	≥ 110°	
Probe Head Material	S.Steel	S.Steel	S.Steel	S.Steel	S.Steel	S.Steel	S.Steel	
Probe Material	Tungsten	Tungsten	Tungsten	Tungsten	Tungsten	Tungsten	Tungsten	
Operating Temp. In Air	-10~100°C	-10~100°C	-10~100°C	-10~100°C	-10~100°C	-10~80°C	-10~80°C	
Operating Temp. In Water	10~30°C	10~30°C	10~30°C	10~30°C	10~30°C	10~30°C	10~30°C	
Dust & Water Resistance	IP67	IP67	IP67	IP67	IP67	IP67	IP67	
Optional Protective Cap[1]	-	-	-	-	-	-	-	
Optional Plastic Sleeve[2]	-	-	-	-	-	-	-	
Hydraulic Fluids Resistance	Gasoline, diesel, brake oil, transmission oil, engine oil							

Non-Articulation Probes

Model	39DF-1M-ST-M	39DS-1M-ST-M	39DF-1M-SR-M	60DFS-10M-TU-M				
Diameter	3.9mm	3.9mm	3.9mm	6.0mm				
Length	1M	1M	1M	10M				
Direction Of View	Front view	Side view	Front view	Dual view				
Probe Head Length	5.6mm	7.6mm	12mm	27.8 mm				
Field Of View (FOV)	90°	90°	90°	95°				
Front Depth Of Field (DOF)	5~60 mm	-	10~60 mm	8 mm~∞				
Side Depth Of Field (DOF)	-	5~60 mm	-	5~200 mm				
Still Image Resolution	400x400	400x400	400x400	2560x1440				
Video Resolution	400x400	400x400	400x400	1920x1080				
Articulation	-	-	-	-				
Articulation Angle	-	-	-	-				
Probe Head Material	S.Steel	S.Steel	S.Steel	S.Steel				
Probe Material	S.Steel	S.Steel	S.Steel	Tungsten				
Operating Temp. In Air	-10~60°C	-10~60°C	-10~60°C	-10~100°C				
Operating Temp. In Water	10~30°C	10~30°C	10~30°C	10~30°C				
Dust & Water Resistance	IP67	IP67	IP67	IP67				
Optional Protective Cap[1]	-	-	-	Yes - Ø6.7mm				
Optional Plastic Sleeve[2]	-	-	-	Yes - Ø9.7mm				
Hydraulic Fluids Resistance	Gasoline, diesel, brake oil, transmission oil, engine oil							

1-The Protective Cap probe features a Ø6.3 mm tip, which increases to approximately Ø6.7 mm when the protective cap is installed.
2-The Plastic Sleeve probe features a total tip diameter of Ø10.9 mm.
3- The Standard Probe is not compatible with the Protective Cap or Plastic Sleeve; these options must be pre-ordered to be included.

Mitcorp
Medical Intubation Technology Corporation (Mitcorp).
All rights reserved. Design and spectifications are subject to change without prior notice. Actual product and accessories may differ from illustrations. Errors and omissions excepted. Reproduction in any manner without written permission of Mitcorp is strictly forbidden.
Specifications and appearances are subject to change without notice or obligation from the manufacturer