



X2000 HD VIDEOSCOPE

Product Outlook











Actual Size : 80x190mm (1:1)

Best Image Viewing Experience

The X2000 features a 7" LCD touchscreen the delivers not only crisp and clear images but also features a manual exposure which works very similar to that of a smartphone. This makes it not only very helpful but also very convenient to use.



Wide view angle 7" IPS TFT-LCD



Manual exposure by fingertip

Advanced File Management

Never get lost again in the countless numbers of images and videos you take. The X2000 HD offers a file management system which allows you sort your footage into folders, to tag them and to add notes or annotations. This makes keeping track of all your inspections easy and convenient.



Custom build file folder by 'SESSION'



Custom photo overlay text by 'TAG'

Versatile Output Connectivity

HDMI port to TV/monitor for HD quality image viewing USB type C port to PC as Web-Cam or SD card reader

Wi-Fi connect to mobile devices to view and share pictures. Dedicated APP download (VideoscopeNOW))

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Excellent User Interface

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



Front /side Dual view at once (with mirror)



Supports image sharpness fine tuning



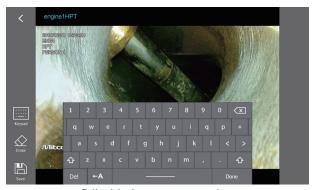
Rotate the live view clockwise to get the best visual angle



3 stage temperature warming & auto shut down function



Patented particle free effect (with mirror)



Editable image annotation

FOV: Wider Than Ever Before

The enhanced field of view (FOV) of our new 3.9 mm HD lenses allows you to see in a wider angle than ever before. Especially in combination with the shorter probe tip and the large articulation angle of our probes, it allows for a comprehensive inspection during which no flaw will remain undetected.



2560*1440 output by 6.0 mm HD probe (30 mm distance)



1600*1600 output by 3.9 mm HD probe (30 mm distance)

DOF (Depth of Field)

The depth of field (DOF) needed for an inspection, can vary depending on the application field for your videoscope. Airplane turbines for example need a different focal length than the engine block of an automotive. Mitcorp offers a variety of different focal lengths to fit your needs.



2560*1440 output by 6.0 mm HD probe (10 mm distance)



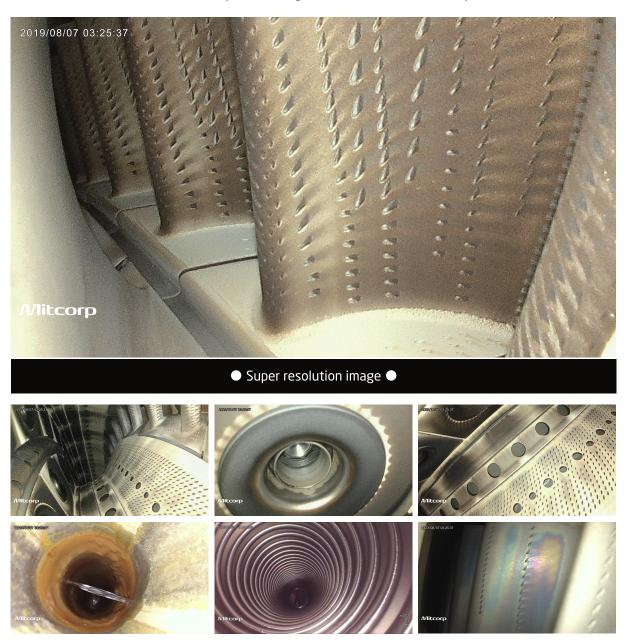
1600*1600 output by 3.9 mm HD probe (5 mm distance)

Use Case:

Combustion Chamber & Turbine inspection in the aviation industry

The X2000 HD videoscope is a perfect companion for this challenging task. In this case the X2000 system was used in combination with one of our 6 mm articulation probes. Not only does this combination provide high quality videos but also outstanding image quality of 2560*1440 pixels.

Optional small diameter of 3.9 mm and the 120° field of view as well as the 140° bending angle allow the technician to move the probe freely within the area to be inspected.



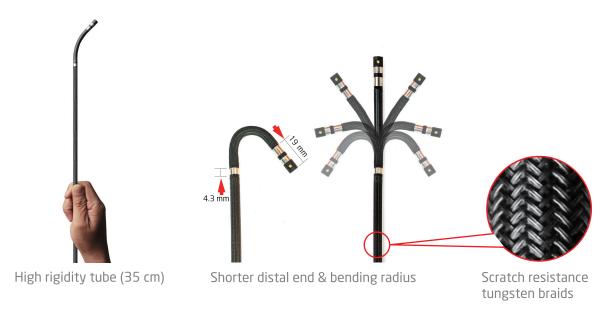
HD Probes



Smooth mechanic articulation control system Move & lock joystick



- 100°C resistance camera tip (6.0 mm tube)
- Ultra-luminance front LED
- IP67 level waterproof and oil proof.



Versatile diameter probe & optical tip

Stunning video quality and crisp images, all without compromising probe size or maneuverability. Our new 3.9 mm inspection probes are the combination of a small, flexible design and flawless image quality. The comprehensive features of our X2000 system in combination with our new series probes will definitely elevate your inspections.



2.8 mm Insertion Probe



Bright & Clear Images

The 2.8 mm scope does not compromise between high image quality for a small diameter. Expect sharp & clear images. The bright LEDs let you see clearly in dark spaces, and the wide FOV offers a great overview. And no more blurry images, thanks to the 3 mm - ∞ DOF range!

• Resolution: 800*800

FOV: 120DOF: 3 mm - ∞







Precise Movements:

A short distal-end and four-way articulation ensure precise movements! Thanks to the small diameter, the bending radius is also small and allows you to reach your inspection target even in confined spaces.

- 4 Way articulation
- 110° bending angle
- 10.1 mm probe head length



Tungsten Durability

The 2.8 mm dual view probe has a protective tungsten braided outer layer. The strength and density of tungsten extend the probe lifespan significantly and make it waterproof, heat and scratch-resistant.

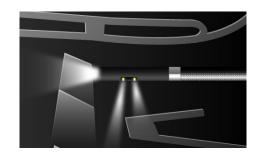
- Tungsten-braided outer layer
- IP67 level waterproof and oil proof
- 80°C heat resistance
- Unvielding to scratches and corrosion





Dual LED Setup

Light distribution is crucial to avoid glare spots and reflections. For that reason, the side view camera has two LED light sources, one below and one above the camera lens, allowing for evenly distributed light in any situation.



Clear Vision & Sharp Photos

Nothing is more important than to have a clear view and sharp images during an inspection. That is why the 3.9 mm dual view boasts two powerful cameras that will give you a perfect overview and leave no flaw undetected.

- HD resolution
- Wide FOV of 120°
- DOF of 5 mm~100 mm



Maneuverability & Precision

Our insertion probes are made to get to even the hardest-to-reach places, and the 3.9 mm dual view is no exception. It is highly flexible and small enough to reach your next inspection target with maximum efficiency and minimal effort.

- 3.9 mm probe head diameter
- 4 Way articulation
- Mechanical wiring (instant feedback & precise movements)
- Articulation up to 120°

Tungsten Reliability

The 3.9 mm dual view probe has a protective tungsten braided outer layer. The strength and density of tungsten extend the probe lifespan significantly and make it waterproof as well as heat and scratch-resistant.

- IP67 level waterproof and oil proof
- 100°C heat resistance
- Unvielding to scratches and corrosion







Outstanding performance for dual view inspection

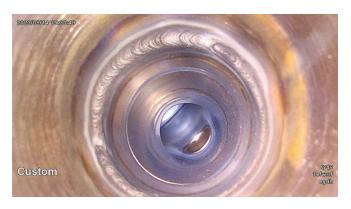
6 mm is the most popular size probe of video scopes for the reasons of best developed optical technology.

The new 6 mm dual camera tip equipped with enhanced LEDs that provide 30% up illumination than conventional probe. 1 second switch between front/side views along with so sacrificed image quality is now presented!

Crisp high resolution image quality output

2560*1440 high resolution images recorded on both dual cameras. The side view camera is fine tuned to 7 mm near focal length that especially practical to tube wall side defects inspection.

- FOV: front & side camera 95°
- DOF: front camera 8 mm[~]∞/ side camera 7 mm[~]∞





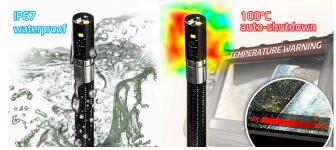
High-resolution images and videos

Great mobility. Outstanding flexibility. Stunning results.



Rugged & Durability

- IP67 waterproof
- 100°C resist & High temperature warning
- Unyielding to scratches and corrosion







Sensitive mechanical control articulation

Full way articulation with lock design, mechanic wiring joystick brings you instant feedback and precise angle control.

21.5 mm short tip length and bending radius make your surrounding inspection job extremely comfortable and efficiently.

Insert Tube Options Cast probe





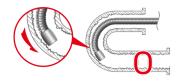


- Side view

Snapshotbrightness+brightness -

Features	39DF-1M-ST front view probe	39DS-1M-ST side view probe
Probe head diameter	3.9 mm	3.9 mm
Probe head length	5.6 mm	7.6 mm
Probe head material	Stainless steel	Stainless steel
Probe diameter	3.9 mm	3.9 mm
Probe length	1 m	1 m
Pobe material	Spring, stainless steel	Spring, stainless steel
LED	Front	Side
DOF	5 mm~60 mm	2 mm~30 mm
FOV	90°	90°
Working temperature	-10°C to 60°C	-10°C to 60°C
Storage temperature	-10°C to 60°C	-10°C to 60°C
Resolution	400*400	400*400
Button	Snapshot, Brightness+, Brightness-	Snapshot, Brightness+, Brightness-





Features	39DF-1M-SR		
Probe head diameter	3.9 mm		
Probe head length	12 mm		
Probe head material	Stainless steel		
Probe length	1 m		
Probe material	Steel, semirigid		
LED	Front/Side		
DOF	10 mm~60 mm		
FOV	90°		
Working temperature	-10°C to 60°C		
Storage temperature	-10°C to 60°C		
Resolution Pixels	400*400		
Button	Snapshot, Brightness+, Brightness-		

Trolley Case & Accessories



IP67 trolley case with extendable handle

Accessories



^{*} also includes: cleaning set, SD card, user manual

X2000 System Technical Specifications

		X200	00				
			Mcorp	*Size: 240*154*47 mn *High temperature dur may cause degradatio	ing charging/operatio		
Display		7"LCD, Resolution 10	7"LCD, Resolution 1024*600		Weight	1480g	
Power supply	AC adapter	100V~240V, 120V 2	100V~240V, 120V 2.5. 50-60Hz			-	
	BATTERY	Rechargeable Li Batte	Rechargeable Li Battery 3.6V 9800mAh, approximately operation time; 5hrs, charging time:4h				
Video output	HDMI	TYPE D; HDMI 1.4 tra	TYPE D; HDMI 1.4 transmitter with 3D format and CEC support				
Tvideo odipat	USB	USB TYPE C, support	USB TYPE C, supporting USB full-speed and high-speed data transmission				
	Wi-Fi	IEEE 802.11B/G	IEEE 802.11B/G				
Operating temperature		In air 0~45°C, with A	C pwer adaper: 0~40°C, charging temp:0~35°C				
Storage temperature		-10°C~70°C	-10°C~70°C				
Drop resistance		1m					
Relative humidity		Max 95% non-conde	Max 95% non-condensing				
Dust and waterproof	IP57	IP57					
Insert tubes interchange	ability	6.0 mm HD series; 3.	9 mm HD ser	es; 2.8 mm			
Software features			Recording management				
Image features	Digital zoom 3X, 10 st	Digital zoom 3X, 10 steps brightness control		Storage media		SDHC micro card	
Image effect	Clarity-on / off		Overlay		YY/MM/DD h:m, battery capacity		
Annotation	10 text annotation (24 characters)		Thumbnail image display		9 grids album mode		
Timestamp / watermark	For snapshot / video recording (on / off)		Still image	Resolution	2560*1440 (5-HD); 1280*720 (HD)	
Image management	User define pic / video folder available		2 rill illiage	Recording format	.jpg		
	Light hoost light off r	nirror grid compare		Resolution	1920*1080		
Image display functions	wireless, particle free,	Light boost, light off, mirror, grid, compare, wireless, particle free, dual view, light direction,		Recording format	.mov / H.264		
	auto whie balance			Audio input	Built-in microp	hone (on / off)	
White balance	Manual adjustable (defa	ault, calibration, custom)	Frame rate	•	30FPS		
	•	Accesso	ories				
HDMI cable (AV-out)	1.8 m, HDMI 1.4a, D T\	PE					
USB cable (data transfer)	1m, type C to standard	l type A					
USB charging cable	1m, USB-DC jack (for power bank). It is recommended to use a 5V~12V, 2A mobile power bank. An output under 2A will not charge the battery and only provide operation power supply						
SD card	32G						
DC power adapter	100V~240V, 12V 2.5A	100V~240V, 12V 2.5A 50~60 Hz					
Shoulder strap	Polyester						
Hand strap	Polyester						
Sun visor	Steel / Plastic						
Insulatio cap	Ø20 mm, Ø90 mm rubl	per					
Trolly case	HDPE EVA						

MIL-STD compliance

Item	Standard (Method)
Vibration Test (Packaged)	MIL-STD-810G-CHG-1 Method 514.7
Transit Drop Test (Packaged)	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

		36	50° Articulation Probes			
	60D4W-F_TU-M	60D4W-F_TU-F	60D4W-FS_TU-M	39D4W-F_TU-M	39D4W-FS_TU-M	28D4W-F_TU-M
Options					3 10	
Probe head diameter*		6.0 mm*	188	3.9 mm*	3.9 mm*	2.8 mm*
Probe length options	2 m/3 m/	5 m / 7 m	2 m/3 m/5 m/7 m/10 m	1.5 m/3 m	1.5 m/3 m	1.5 m
Probe head length	19.3 mm		2 m/3 m: 21.5 mm 5 m/7 m/10 m: 24.4 mm	13 mm	21.6 mm	10.1 mm
Direction of view	Front	view	Front + Side 90°	Front	Front+Side 90°	Front
Illumination	Front/Si	de LEDs	Front/side LED	Front LED	Front/Side LED	Front LED
Mirror adaptor	Side/Du	al view	n.a	n.a		
Field of view (FOV)	90)°	95°	120°		
Depth of Field (DOF)	10 mm~100 mm	25 mm~∞	2 m/3 m: Front: 8 mm~∞ Side: 7 mm~∞ 5 m/7 m/10 m: Front: 8 mm~∞ Side: 5 mm~200 mm	5 mm~100 mm	5 mm~100 mm	3 mm~∞
Still image resolution (.jpg)	2560*144	10 (S-HD)	(Dual) 2560*1440	1600*1600	(Dual) 1600*1600	800*800
Video resolution (.mov)	1920*	1080	(Dual) 1920*1080	1600*1600	(Dual) 1600*1600	800*800
Articulation angle**	2 m / 3 m: full ways ≥ 120° 5 m / 7 m / 10 m: full ways ≥ 80°		Full way >140°	Full way >120°	Full way >110°	
Operating temperature	In air: -10~100°C ; In water: 1			10~30°C		
Probe head material	Stainless Steel					
Probe material	Tungsten braid					
Joystick console dimensions	(WxDxH) 139.4x193x84.2 mm (w/o SR and insert tubes)					
Joystick console buttons	Brightness+, Brightness-, snapshot/record					
Lock and move	Joystick/Unlock switch on console					
Dust and water proof	Joystick console: IP54 ; Insert Tube: IP67					
Relative humidity	Max 95% non-condensing					
Liquid resistance	Operable when exposed to machine oil, light oil or 5% saline solution					
Storage temperature	-10°C~70°C					
Rigid sleeve	for 6.0 mm probe OD: 8 mm/ID: 7 mm Protection: OD: 10 mm Extension joint ring: OD: 11.2 mm		for 3.9mm / 2.8 mm probe OD: 6 mm/ID: 5 mm Protection: OD: 8 mm Extension joint ring: OD: 8.6 mm			
	Grip material: Rubber/Aluminum/Plastic; Tube material: Stainless steel Stainless tube length: 450 mm per section. (Grip not included)					
Trolley case	HDPE EVA with storage reel					

 $^{^{\}star}$ 0.D. Tolerance: 6.0 mm: ±0.09 mm/3.9 mm: ±0.15 mm/2.8 mm: ±0.1 mm. ** The maximum articulation angle may degrade over time.







website:www.mitcorp.com.tw e-mail:sal@mitcorp.com.tw

2F., No.75, Wenhua 1st Rd., Guishan, Taoyuan 333, Taiwan T+886-3-328-7177 F+886-3-328-7176

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