



BCS Optical F5000 2D Aviation Borescope Camera 6 mm





INTELLIGENT

Strong intelligent image processing system: with the functions of image rotation, white balance, exposure control, negative film and zoom in & out, comparative measurement, it can meet all kinds of complicated inspection needs.

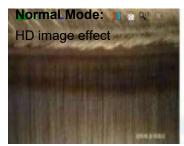


White Balance: Auto white balance with strong color reduction; manual-control white balance according to inspection needs.





Exposure Setting: exposure suppression--the polished object is also inspected clearly; exposure compensation when checking large cavity, it can be more effective and clearer.



Enhance the ability to compare and analyze the internal defects of the



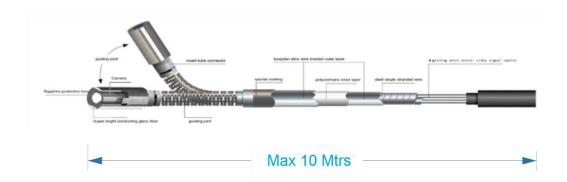


FLEXIBLE ARTICULATION CONTROL

360 ° joystick-control articulation, damping type positioning design, precise probe locking technology, make the detection more accurate and efficient. Independently developed technology of long-distance transmission ensures bending angle ≥100°, even the tube reaches 10 meters.



360° precision articulation





maximum bending angle ≥190

F5000 2D series videoscope is module designed. Configured with 5.1 inches HD display, it can be interchangeable with 3.5 inches small display, suitable for different inspection requirements. The monitor and probe can be separated by one button. It is compatible with different probes like: 6mm front view, 6mm sideview, 6mm front view& sideview dual lens.







WIFI button



360° joystick



Damping control





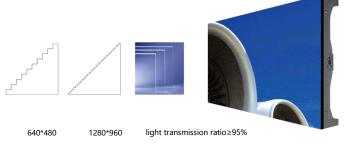
The image can be outputted to HD display by HDMI.



High temperature alarm function: Orange alarm when the temperature is above 65 °C; Red alarm and shutdown when the temperature is more than 80 °C.



Working Hours: Original dual battery design,8 hours working time; real-time battery indication



Display resolution: 1280*960, high light, wide color gamut, all sight viewing angle, ensure clear image, rich colors and good color reproduction.

product updates, the final parameters should be based on specific models.

	Probe Diameter(mm)	Ф6		
	Camera Pixels	1,000,000		
	Image Resolution	1280×720		
	Video Resolution	1280×720		
	DOF	front view: 10-100mm/ side view: 3-25mm or 10100mm (optional)		
	FOV		120°	
F5000 2D	Viewing Direction	0° front view	90° side view	0° front view&90° side view
Aviation	Light Source		LED light/optic fib	er
BoreScope	Illuminance	e maximum: 50000+Lx 1~9 levels adjustable light		
System	Tube Length	1.5mtr / 3 mtr / 5 mtr / 6 mtr (customized for other length)		
	Protecting Device of Durability	42mm buffer protection device between tube and handle		
	Articulation	360° joystick-control articulation		
	Bending Angle	maximun:190° (1.5M-3M) /120° (4M/5M) / 100°(6M-7M)/ 90° (8M-10M)		
	Probe Positioning	damping positioning & articulation lock device.		
	Wi-Fi Transmission	image transmission to Mobile phone, computer by Wi-Fi(optional)		
	Display	5.1" color IPS display, all sight viewing angle, sunshade design		
	Display Resolution	1280*960		
	Zoom In/Out	8X		
	Language	English / French / German / Spanish / Japanese / Russian / Korean/ Polish/ Italian		
	White Balance Suppression	5 levels adjustable		
	White Balance	auto white balance, adjusts and eliminates speckles to achieve optimal images.		
	Image Effect	negative film/ black & white/standard		
	Temperature Indication	high temperature alarm (optional)		
Monitor	IP Level	probe/tube: IP67		
	Software Function	playback, image parameters adjust and rotate		
System	Structure	hand-held integrated design		
	Image/Video Format	JPEG/MOV		
	Comparative Measurement	Use measuring probe defect and size of the		are and analyze the internal
	Data Port		icro USB port with water &	dust proof device
	Working Time	≥8h		
	Battery Capacity	3.7V, 3200mAh×2		
	Power Charge	DC5V, 1A		
	Weight	0.5Kg~0.8Kg		
	Compatibility	interchangeable monitor and tube		





BCS Optical F3000 Aviation

Borescope Camera 3.9 mm & 6 mm

Aviation 3D Measurement Borescope Measure Engine Corrosion & Pitting

- Camera 3.9 mm
- Camera 6 mm





Borescopes & Optical Inspection Systems

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F3000 Pro 3D Measurement



3D measurement function is a major difficulty in the endoscope industry. Whether the process selection of product appearance materials or the research to the design of software measurement algorithms, The R&D team made a large number of feasibility studies and simulation tests.

3.9mm 0°/90° Camera

6.0mm 0°/90° Camera



Measurement Function

Identify and Measure

Measurement Accuracy ≥ 95%

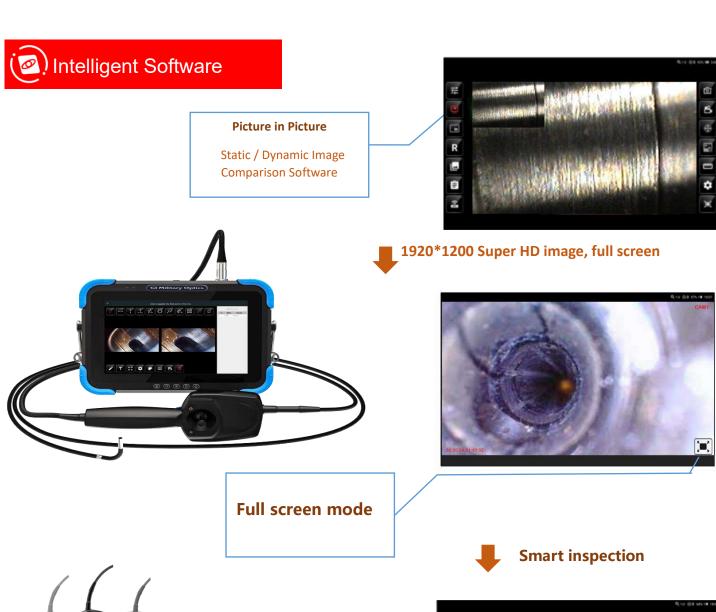
Surface defects. Cracks and pitting. Holes and Engine wear.

Erosion and corrosion of the engine.

Everything larger than 0.001 can be measured.

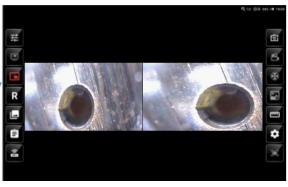








Dual-Camera image



Intelligent Operation System

Image Adjustment:

Resolution Options

Camera Parameters Setting:

Brightness/ Contrast/ Gamma/ Ray/ Saturation/Sharpness

Image Effects:

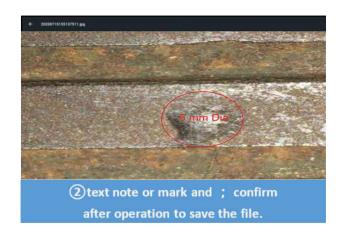
Auto Balance/ Negative Film/Mirror Image Or Rotation/Image Freezing Note Text:

Annotation/Free Drawing/Mark

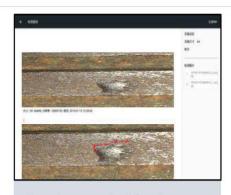


Picture Annotation, Free Drawing

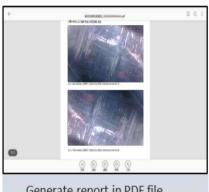




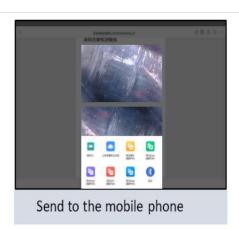
MDI Report Generation

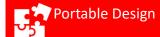


Select pictures and editing the report













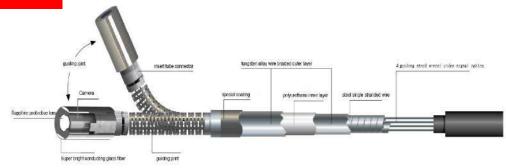




- HDMI image output, synchronous image display
- 3.0/2.0 dual USB port
- 32G SD card, support 128G card at maximum









Illuminance

Super bright ceramic light



Wear Resistant Tube

5 layers of tungsten- braided tube; Wear resistance: 20 times better than ordinary probe



360° Articulation



Maximum Bending Angle: 190°

Parameters

Probe		
Diameter	3.9 mm / 6.0 mm	
Dof	10~100mm	
Sensor	HD image sensor	
Resolution	HD 1000000 pixels	
Working Length Both Camera Diameters	1.5 mtr / 2 mtr /3 mtr	
Material	Abrasion-resistant alloy	
Temperature	No	

System		
Case Size	360×360×100mm	
Host Size	300×220×59mm	
Host Weight	1.9KG	
Host Material	Magnesium aluminum alloy	
Display Resolution	1920×1200	
Joystick Handle Size	235×90×70mm	
Joystick Handle Weight	0.4KG	
Articulation	360°	
Bending Angle	≤150°	
Storage	Internal memory/SD card/U disk (optional)	
I/O Port	Micro USB×2;mini HDMI×1;SD slot×1;Air plug×1	
Video Output	HDMI	
Light Source	Real cold light source + fiber	
Brightness Level	5X	
Illumination	Max 100000LX	
White Balance	Automatic	
Battery Capacity	3000mA/3.7V ×4	
Battery Charging	12V, 1A	
Power	10W	
Battery Work Time	2.5h	
DC Mode	Support charging while use	

Software		
Operation System	Real-time intelligent multitasking operating system	
User Interface	Button + touch screen	
File Management	Intelligent file management system, support to the memory and SD card, USB storage media files and folders for the following operations: copy, cut, rename, delete etc.	
Image Adjustment	Image adjustment: resolution options Camera parameters setting: brightness/ contrast/ gamma/ ray/ saturation/sharpness Image effects: auto balance/ negative film/mirror image or rotation Note text: annotation/free drawing/mark	
Image Zoom In/Out	3X	
Image Format	JPG	
Video Format	MP4	
Text Annotation	Photo text overlay, can choose the font size of the annotation text	
Image Annotation	Seal (default/custom), doodle, text input	
Software Upgrade	On-site upgrades are available via SD card and USB storage media	
Language	English / French / German / Spanish / Japanese / Russian / Korean	
Utility Software	MDI report generation software Dual video input switching software (it shall be equipped with the direct side view switching pipeline) Picture in picture comparison software 3D measurement software	

Measurement Function		
Point To Point Distance	Measure the distance between two points	
Point To Line Distance	Measure the distance from the point to the line	
Point To Surface Depth	Measure the distance from the point to the surface	
Multi-Segment Line Length	Measure the total length of multiple continuous lines	
Closed Segment Length	Measure the length of multiple closed continuous lines	
Line To Surface Depth	Measure the depth of the line to the specified surface	
Area	Measure the area of a closed polygon	
Partial Magnifying Window Assist Function	3X	
Picture Can Be Measured Times	Multiple measurements can be made continuously	
Measuring List	Multiple measurements can be tabulated	
Precision Value	0.1mm	
Minimum Precision Value	0.01mm	
Accuracy	≈95%	