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**Industrial Endoscope
Solution Service Provider**

Zhongke Intelligent(Wuxi) Technology Co., Ltd

www.kunscope.cn

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ABOUT US

Founded in 2015 and officially settled in Wuxi Binhu District Science and Technology Incubation Base in 2024, our company is led by Mr. Kong Weibiao, a 30+ year veteran in the endoscope field. A recipient of the National Science and Technology Progress Second Prize and multiple key provincial awards, he has built our industry-leading core technology foundation.

Backed by a highly educated R&D team and over a decade of specialized endoscope expertise, we have established robust technical barriers. All our products undergo rigorous high-low temperature, waterproof, drop, vibration, and pressure tests for proven reliability. By integrating AI algorithms with advanced image optimization, we deliver precise identification and intelligent analysis capabilities, expanding the limits of traditional industrial endoscopes and securing our leading market position.

2015
Company Founded

30+
Technical R&D Personnel

70+
Cumulative Patent Applications

100+
Trusted by Industry Benchmark Users

DEVELOPMENT HISTORY

2015

- Shanghai Yida Optoelectronics Technology Co., Ltd. was established.
- Applied for a patent for "endoscope replaceable tip" and launched an electronic endoscope with variable viewing angle, direction, and depth of field.

2016-2017

- Applied for a patent for "endoscope bending section," pioneering the $\phi 2\text{mm}$ ultra-thin angulated endoscope.
- Applied for a patent for "modular insertion tube and endoscope," pioneering the interchangeable insertion tube endoscope.
- Applied for a patent for "a focusable endoscope," launching the world's first $\phi 3.9\text{mm}$ focusable high-definition endoscope.
- Launched the world's first $\phi 1.3\text{mm}$ two-way angulated electronic endoscope.

2018

- Launched the world's first 1-megapixel endoscope with a $\phi 3.0\text{mm}$ diameter.
- Filed a patent for "endoscope electric power-assist system," creatively proposing a motor-assisted angulation control technical solution.

2021

- Filed a patent for "rotating insertion tube endoscope," creatively proposing an endoscope technical solution where the insertion tube can rotate 360° unrestrictedly relative to the handle.
- Accredited as a Talent Development and Industry-University-Research Collaboration Base of Tongji University.

2019-2020

- Filed a patent for "combined direct and lateral viewing endoscope," creatively proposing a single-camera dual-view endoscope solution.
- Launched a 3D measurement endoscope based on binocular imaging principle.
- Filed a patent for "endoscope bending section," creatively proposing a minimalist snake bone that optimally balances minimal outer diameter and maximal inner lumen.

2022-2023

- Filed a patent for "endoscope bending section," launching the world's first $\phi 2.2\text{mm}$ four-way angulated fiber-illuminated electronic endoscope.
- Filed a patent for "anti-detachment replaceable tip and endoscope," completely eliminating the detachment risk associated with dual-thread structures.
- Launched the world's first $\phi 1.7\text{mm}$ four-way angulated fiber-illuminated electronic endoscope.
- Filed a patent for "anti-detachment replaceable tip and endoscope," completely eliminating the detachment risk associated with dual-thread structures.

2024

- The second-generation measurement endoscope achieved a major breakthrough, marking an important milestone in endoscopic technology transitioning from "measurable" to "efficient and precise measurement."
- Relocated to Wuxi City and established Zhongke Intelligent (Wuxi) Technology Co., Ltd.

2025

- Launched a $\phi 3.9\text{mm}$ replaceable-tip measurement endoscope solution based on single-camera dual-lens stereo imaging.
- Launched the world's first $\phi 1.0\text{mm}$ two-way angulated fiber-illuminated electronic endoscope.

HONORS&QUALIFICATIONS



ISO9001



GJB9001



CE



INDUSTRIAL VIDEOSCOPE SERIES

T2 Industrial Videoscope

5.5" 1080P ultra-bright display (60% brighter) reduces metal glare for accurate defect detection. Lightweight 1.5 kg, modular design with replaceable battery, probe, and lens. Pistol-grip one-button capture. Image zoom, split-screen comparison, annotation & reporting. Multiple interfaces, 4-hour battery life, AC/DC compatible. Efficient for long-duration industrial inspections.

Key Advantages



Modular Design



60% increase in screen brightness



One-button capture (photo/video)



Quick probe replacement



Main Unit Specifications

Product Model	T2	Probe Diameter	0.85mm/1.0mm/1.2mm/1.7mm/2.2mm/2.8mm/3.0mm/3.9mm/6.0mm/8.0mm
Product Dimensions	337×183×88 (mm)	Probe Length	1–10m (custom)
Weight	1.5KG	Image Control	5x zoom
Display	Multi-touch 5.5" high-brightness HD touchscreen	Screen Rotation	0°, 90°, 180°, mirror
Display Resolution	1920×1080	Color Effect	Color, B&W, negative
Screen Brightness	1000 nits, sunlight-visible	Image Color	Brightness, sharpness, saturation, gamma, hue, contrast
Expandable Storage	32GB storage (TF up to 128GB)	Image Freeze	One-key freeze for secondary analysis
Data Transfer	Type-C high-speed data transfer, supports WiFi & Bluetooth (customization required)	Photo & Video	Touchscreen, buttons, rear key
Video Output	HDMI video output	Software Functions	High-temp alarm, drawing, freeze, split-screen, virtual scale, report
Audio Recording	Supported	File Management	Rename, edit, playback, delete
Battery Capacity	7.4V 6400mAh replaceable lithium battery	Dynamic Text Watermark	Date/time & custom watermark
Battery Life (or Runtime)	4+ hours of operation, AC/DC compatible	Analog Scale / Virtual Scale	Set virtual scale
IP Rating	IP65	Comparison Measurement	Compare by known defect
Operating Temperature	-30°C to 80°C	Language	16 languages: Chinese, English, Japanese, German, French, etc.
Relative Humidity	Up to 95% non-condensing		

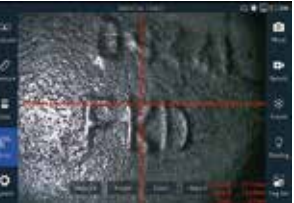
T3 3D Measurement Videoscope

Full 3D measurement & AI defect recognition. Accurately measures length/area. Real-time depth map, 3D point cloud, cross-section, and 3D modeling. Interchangeable lenses for all scenarios. 7" glove-friendly touchscreen with touch/button control. Modular design, quick-change battery & probe. Military-grade encryption ensures secure industrial inspection data.

Key Advantages



Real-time 3D measurement



Dynamic virtual scale



3D modeling function



AI defect recognition



M3 Detachable Videoscope

Modular borescope with 10.1" high-brightness touchscreen. Dual control via touch + handle for precise access to tight spaces and high-defect capture. Interchangeable probes from 0.85mm to 8.0mm, with direct/side/dual view options. Highly compatible for all inspection scenarios.

Key Advantages



Dual megapixel HD camera



10.1" HD touchscreen



6-hour long battery life



Main Unit Specifications

Product Model	T3	Probe Length	1.0m–10m (customizable)
Dimensions	392×299×156(mm)	Image Control	Aspect ratio: 16:9, 4:3, 1:1 (camera-dependent)
Weight	2.5KG	Screen Rotation	0°, 90°, 180° & mirror image
Display	Multi-touch 7" high-brightness HD touchscreen	Color Effect	Color, B&W, negative
Resolution	1920×1200	Software Functions	High-temp alarm, drawing, freeze, virtual scale, report, HDR, distortion correction, noise reduction, black box
Brightness	1000 nits, sunlight-visible	Measurement Mode	3D measurement: 13 modes (length, point-to-line, depth, circumference, polyline, area, area depth, gap, corner loss, plane angle, angle, curve length, comparison)
Expandable Storage	32GB storage (TF up to 128GB)	Measurement Accuracy	Accuracy 0.01mm, error <5%
Data Transfer	Type-C / USB high-speed data transfer	Blade Counting	Auto forward/reverse & blade counting
Video Output	HDMI video output	AI Defect Recognition	Auto defect framing
Audio Recording	Supported	Photo & Video	Touchscreen, host buttons, rear shortcut
Battery Capacity	11.1V 6400mAh replaceable lithium battery	File Management	Create, rename, edit, delete files/folders
Runtime	8+ hours of operation, AC/DC compatible	Data Synchronization	Upload to local data center
IP Rating	IP65	Virtual Scale	Dynamic virtual scale
Operating Temp.	-10°C to 65°C	Language	Chinese, English, etc.
Relative Humidity	Up to 90% non-condensing		
Probe Diameter	0.85mm/1.0mm/1.2mm/1.7mm/2.2mm/2.8mm/3.0mm/3.9mm/6.0mm/8.0mm		

Main Unit Specifications

Product Model	M3	Image Control	8x digital zoom
Dimensions	343×243×87 (mm)	Display Settings	Switchable display shapes: quadrilateral, octagon, circle
Weight	2KG	Color Effect	Color, B&W, negative
Display	Multi-touch 10.1" high-brightness HD touchscreen	Image Adjustment	Adjustable: mirror, screen brightness, contrast, hue, saturation
Display Resolution	1280×800	Software Functions	HDR, high-temp alarm, drawing, freeze, split-screen comparison, virtual scale, inspection report
Screen Brightness	Sunlight-visible	Photo & Video	Photo and video capture via touchscreen and handle buttons
Expandable Storage	32GB storage (TF up to 128GB)	Image Format	JPEG format
Data Transfer	USB high-speed data transfer	Video Format	AVI format
Video Output	HDMI video output	White Balance	Manual / Auto
Operating Time	6+ hours of operation, AC/DC compatible	Measurement Scale	Crosshair scale
IP Rating	IP65	Split-Screen	One-key freeze of live video during inspection; frozen frame supports secondary analysis
Operating Temperature	-10°C to 50°C	File Management	File rename, delete, etc.
Relative Humidity	Up to 95% non-condensing	Language	Chinese, English, etc.
Probe Diameter	0.85mm/1.0mm/1.2mm/1.7mm/2.2mm/2.8mm/3.0mm/3.9mm/6.0mm/8.0mm	Software Update	Supports remote upgrade
Probe Length	1.0m–10m (customizable)		

SV+ Portable Videoscope

Cost-effective — offers professional inspection at lower cost. 5" 1280×720 HD touchscreen with 9-level brightness. High-pixel camera + bright LED for clear imaging in low light. ≤1.5kg, compact, one-hand operation. 3200mAh battery with long runtime, AC/DC compatible. Supports quick probe change (0.85mm–8.0mm) — one unit, multiple uses, boosting efficiency and utilization.

Key Advantages



Quick probe swap



Swap battery



Light & portable



All-in-one



Supporting accessories



Power cable



Memory card & card reader



HDMI Cable



Rigid / Flexible Sleeve(Optional)



Tripod (Optional)



Hook Strap(Optional)



Carrying Case



Channel Manipulator(Optional)



Center locator (optional)

Main Unit Specifications

Product Model	SV+	Probe Diameter	0.85mm/1.0mm/1.2mm/1.7mm/2.2mm/ 2.8mm/3.0mm/3.9mm/6.0mm/8.0mm
Dimensions	282×150×65 (mm)	Probe Length	.0m–10m (customizable)
Weight	1.5KG	Operating System	Multitasking OS
Display	Multi-touch 5" high-brightness HD touchscreen	Image Control	5x zoom
Display Resolution	1280×720	Screen Rotation	0°, 90°, 180° & mirror
Screen Brightness	9-level brightness adjustment	Color Effect	Color, B&W, negative
Expandable Storage	32GB storage (TF up to 128GB)	Image Color	Adjust brightness, sharpness, saturation, contrast; reset
Data Transfer	Type-C high-speed data transfer	Software Functions	Rotate, freeze, PIP, annotate
Video Output	HDMI video output	Photo & Video Capture	Capture via touchscreen, keys, rear key Short press: photo; long press: video
Audio Recording	Supported	Image Format	JPG
Battery Capacity	3.7V 3200mAh	Video Format	MP4
Battery Life	3+ hours of operation, AC/DC compatible	File Management	Playback, delete, format
IP Rating	IP65	Language	16 languages: Chinese, English, Japanese, German, French, etc.
Operating Temperature	-10°C to 50°C		
Relative Humidity	Up to 90% non-condensing		



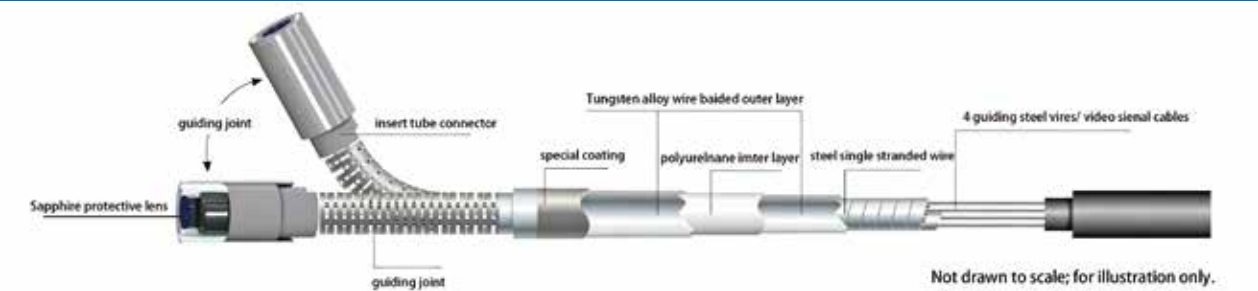
Articulating probe lens

- 0.85mm (Direct View Lens)
- 1.0mm (180° Articulating Direct View Lens)
- 1.2mm (180° Articulating Direct View Lens)
- 1.7mm (180°/360° Articulating Direct/Side View Lens)
- 2.2mm (180°/360° Articulating Direct/Side View Lens)
- 2.2mm (180° Articulating Dual View Lens)
- 2.8mm (180°/360° Articulating Direct/Side View Lens)
- 3.0mm (360° Articulating Direct/Side View Lens)
- 3.0mm (360°Articulating Dual View Lens)
- 3.9mm (360° Articulating Direct/Side View Lens)
- 3.9mm (360°Articulating Dual View Lens)
- 6.0mm (360° Articulating Direct/Side View Lens)
- 6.0mm (360°Articulating Dual View Lens)
- 8.0mm (360° Articulating Direct/Side View Lens)



Durable Probe Tube Design

- Custom probe tubes available from 1–10 m for diverse industrial applications.
- Proprietary transmission technology enables 360° articulation with up to 140° deflection.
- High-definition long-distance imaging system ensures clear and stable visualization for extended inspections.



Interchangeable Lens Options



Anti-drop replaceable lens							● For Sale○ Customizable	
Diameter (mm)	Pixel Count	Lens Type	Illumination	Bend	Aspect	Field of View (°)	Depth of Field (mm)	Status
3.9	1280*720	Observation	Fiber-optic	Four-way	Direct	90	8~150	●
						120	4~65	●
					Side	90	8~150	●
						120	4~65	●
		Measurement			Direct	90	2~20	○
						90	3.3~50	●
						90	7~100	●
					Side	90	2~20	○
						90	3.3~50	●
						90	7~100	○
6.0	1280*720	Observation	Fiber-optic	Four-way	Direct	50	50~∞	●
						90	4~20	●
						90	8~150	●
						140	4~100	○
					Side	50	50~∞	●
						90	4~20	●
						90	8~150	●

Probe Technical Specifications							
Diameter (mm)	View	Lens Type	Illumination	Pixel Count	Field of View (°)	Depth of Field (mm)	Bend
0.85	Direct	Observation	Fiber-optic	16	120	3-50	/
1.0	Direct	Observation	Fiber-optic	16	120	3-50	Two-way
1.2	Direct	Observation	Fiber-optic	16	120	3-50	Two-way
1.7	Direct	Observation	Fiber-optic	16/52	120	3-50	Two/ Four-way
	Side	Observation	LED	16/52	120	3-50/3-100 (optional)	Two/ Four-way
2.2	Direct	Observation	Fiber-optic	16/52	120	3-50	Two/ Four-way
	Side	Observation	LED	16/52	120	3-50/3-100 (optional)	Two/ Four-way
	Dual View	Observation	Fiber-optic / LED	16/52	120	3-50	Two-way
2.8	Direct	Observation	Fiber-optic / LED	16/52	120	3-50	Two/ Four-way
	Side	Observation	LED	16/52	120	3-50	Two/ Four-way
3.0	Direct	Observation	Fiber-optic / LED	100	90/120	7-80/5-100 (optional)	Four-way
	Side	Observation	LED	52	120	3-50	Four-way
	Dual View	Observation	Fiber-optic / LED	Direct 100K Side 52K	Direct 90/120 Side 120	5-100/7-80	Four-way
3.9	Direct	Observation	Fiber-optic / LED	100/200	120/110	5-100/10-100 (optional)	Four-way
	Side	Observation	Fiber-optic / LED	100	90	4-20/7-80/8-150 (optional)	Four-way
	Dual View	Observation	Fiber-optic / LED	100	120	5-100	Four-way
	Direct	Measurement	Fiber-optic	52	120	3-50	Four-way
	Side	Measurement	LED	52	120	3-50	Four-way
6.0	Direct	Observation	Fiber-optic / LED	100/200	120/110	5-100/10-100 (optional)	Four-way
	Side	Observation	Fiber-optic / LED	100/200	120/110	5-100/8-150 (optional)	Four-way
	Dual View	Observation	Fiber-optic / LED	100/200	120/110	10-100/8-150 (optional)	Four-way
	Direct	Measurement	Fiber-optic	100	90	5-100	Four-way
	Side	Measurement	Fiber-optic	100	90	5-100	Four-way
8.0	Direct	Observation	Fiber-optic / LED	100/200	120/110	5-100/10-100 (optional)	Four-way
	Side	Observation	Fiber-optic / LED	100/200	120/110	10-100/8-150 (optional)	Four-way



ULTRA-THIN FIBER ENDOSCOPE SERIES

Ultra-Thin Fiber Endoscope Series

With a flexible ultra-thin fiber bundle for image transmission, it navigates easily into narrow, curved, or deep cavities for clear internal inspection. Lightweight and durable, it detects cracks, blockages, and wear in precision machinery, aerospace, auto engines, and pipelines — while also playing a key role in security, search, anti-smuggling, anti-drug, forensics, and rescue operations.

Ultra-thin fiber optic

Photo & video recording

Police reconnaissance

Handheld & portable



*Technical Specifications

Diameter (mm)	Length (mm)	Field of View (°)	Pixel Count	Depth of Field (mm)	Tube material
0.56	600	70	6000	3-20	PI tube / Nitinol tube
0.66	600	85	10000	2~30	PEEK tube / Nitinol tube
0.78	600	85	10000	2~30	PI tube / Nitinol tube
1.1	600	85	10000/30000	2~30	PI tube / Nitinol tub

*Standard models shown. Other sizes available on request.

VISION INSPECTION ROBOT SERIES



Vision Inspection Robot Series

This product integrates a robotic arm, endoscope module, and worktable, featuring depth perception and motion control for coordinated camera-arm operation. Powered by industrial AI, deep learning, and big data, it automates visual inspection of precision casting cavities.

It accurately detects burrs, scratches, cracks, stains, slag, coating unevenness, steps, over-milling, thread defects, and other machining anomalies. Supporting photo, video, and image capture, it offers easy operation, wide adaptability, and fully traceable data for lightweight, flexible deployment—significantly improving inspection efficiency and accuracy.

Product Features

Industrial Six-Axis Robotic Arm + High-Speed Imaging Technology

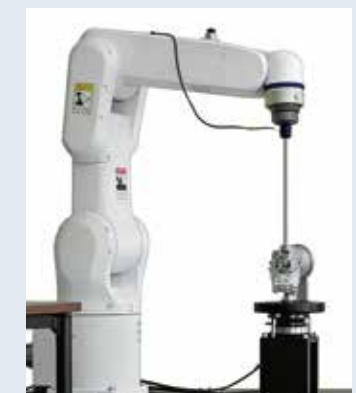
Industrial six-axis robotic arm with high-speed imaging for precise, fast, and stable automated inspection.

Full blind-spot detection for all common defects

360° coverage with no blind spots, accurately identifying common industry defects — no misses, no false calls.

Easily switch modes for various products

Quick mode switching for various products — versatile all-in-one.



APPLICATION SCENARIO

Aerospace

Ensuring Aircraft Safety and Efficiency. Used for inspecting critical components-engine blades, combustion chambers, turbines, and fuel lines-without disassembly, borescopes accurately detect cracks, erosion, wear, and foreign debris. They enhance flight safety, boost maintenance efficiency, prevent major failures, and reduce costs and downtime. Essential for airworthiness and reliability, borescopes also support condition-based maintenance and aircraft health management.



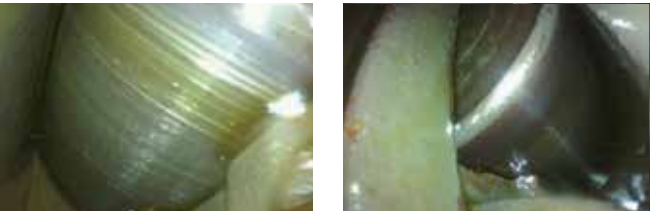
Military manufacturing

Ensuring Reliability and Readiness in Defense Equipment. Enable high-precision, nondestructive inspection of missile systems, armored vehicles, and ship pipelines without disassembly. Detect defects, assess condition, prevent failures, and reduce maintenance risks and lifecycle costs.



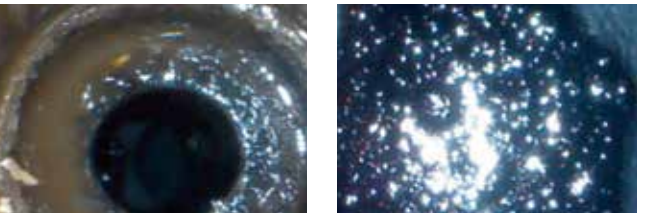
Wind Power Industry

Fast, Accurate Wind Turbine Inspection. Perform nondestructive inspection of gearboxes, blades, bearings, and main shafts. Detect wear, cracks, and internal damage without disassembly, improving efficiency, preventing failures, and reducing downtime and maintenance costs.



Maritime industry

Enhancing Ship Inspection and Maintenance. Used for visual inspection of engines, piping systems, and hull structures without disassembly, to detect internal corrosion, cracks, re-scoped carbon deposits, assembly issues, and weld defects. They improve inspection efficiency and maintenance accuracy, reduce unnecessary disassembly costs, minimize vessel downtime, and enable early detection of potential risks, ensuring safe navigation. Borescopes are a key tool for condition-based maintenance and health management in ship operations.



Automotive manufacturing

Fast, Accurate Automotive Inspection. Enable non-destructive visual inspection of engine blocks, fuel injectors, transmissions, drive trains, and other precision assemblies. Quickly detect carbon deposits, wear, cracks, and assembly defects without disassembly, improving inspection efficiency, maintenance accuracy, and component lifespan, while ensuring vehicle safety and reliability. Essential for automotive R&D, quality control, and after-sales service.



Chemical and Oil industry

Fast, Safe Inspection for Petrochemical Equipment. Perform non-destructive inspection of pipelines, reactors, heat exchangers, and pressure vessels. Detect corrosion, cracks, deposits, and weld defects without disassembly, improving efficiency, preventing leaks, and reducing downtime and maintenance costs.



Rail transit

Fast, Reliable Train Inspections. Perform non-destructive inspection of bogies, wheelsets, braking systems, engines, and HVAC pipelines. Detect cracks, wear, corrosion, and assembly defects without disassembly, improving efficiency, preventing failures, and reducing downtime and maintenance costs.



Construction industry

Enable non-destructive visual inspection of walls, pipelines, structural gaps, and prefabricated components. Quickly detect internal cracks, rebar corrosion, pipeline blockages, and construction defects without damaging the structure, improving inspection efficiency and accuracy, preventing potential safety.



Pharmaceutical industry

Fast, Reliable Pharmaceutical Inspection. Perform non-destructive inspection of reactors, mixers, piping, and filling lines. Detect residues, corrosion, wear, and hard-to-clean areas without disassembly, ensuring GMP compliance, reducing contamination risk, and cutting maintenance costs.



Nuclear industry

Perform non-destructive, remote inspections of reactor vessels, steam generators, pipelines, and fuel assemblies. Detect cracks, corrosion, wear, and debris while reducing radiation exposure, ensuring safe operation, and extending equipment life.



Additive Manufacturing(3D Printing)

Ensuring Quality in 3D-Printed Components. Perform fast, non-destructive inspection of internal channels, lattice structures, and cavities. Detect pores, cracks, and fusion defects without disassembly, improving efficiency, reliability, and supporting innovative designs.



Precision casting

Enable non-destructive inspection of internal porosity, sand inclusions, cracks, and flow path residues in castings. Accurately detect hidden defects in complex cavities without damaging the part, improving inspection efficiency and product yield, preventing quality issues, and reducing scrap and production costs. A key tool for high precision casting quality assurance.



A borescope is a slim inspection tool with HD optics and built-in lighting, enabling real-time checks in narrow or enclosed spaces often called an "extension of the human eye."

Applications

Manufacturing: Detect cracks, burrs, and voids.

Assembly: Inspect welds, connections, and alignment.

Maintenance: Spot carbon deposits, corrosion, and deformation.

Benefits.

Efficiency: Fast inspection without disassembly.

Cost savings: Reduce damage and labor costs.

Quality & safety: Detect defects to prevent failures.

Smart management: Capture images, videos, and measurements for data-driven decisions.

Borescopes are essential tools for quality control, operational safety, and smart manufacturing.