

We've been trying to be what you want.



iBorescope

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**Shenzhen Weicheng  
Technology Co., Ltd**

Professional Industrial BOREscope Solution Supplier



# Catalogue

**03** /Company Profile

**05** /Service Idea

**07** /Brand History

**09** /Honorary Qualification

**11** /Series Products

**35** /Cooperative Partner

# COMPANY PROFILE



PROFESSIONAL  
FOCUS

QUALITY  
ASSURANCE

ONE STOP  
SERVICE

PERSONALIZED  
CUSTOMIZATION

Shenzhen Weicheng Technology Co., Ltd. is a national high-tech enterprise integrating R&D, production, sales, engineering and service. iboscope is its brand. Since its establishment, iboscope has been focusing on industrial endoscopy and non-destructive inspection (NDT) industry, and has rich experience in internal visual inspection and industrial endoscopy product development. iboscope always adheres to the basic concept of integrity and progress, creates value for customers and partners, and provides professional endoscopy solutions for many well-known customers; iboscope adheres to open innovation, cooperation and win-win, and cooperates with global strategic partners to develop and strive to become A new type of enterprise with a complete ecosystem in the field of non-destructive (NDT) solution services. Over the years, iboscope has launched a full range of intelligent industrial endoscopes with professional technicians, advanced technology and strong strength. Apply for a number of national invention patents to meet the diverse needs of different industries, constantly overcome the difficulties of scene visual detection, and make important contributions to domestic and foreign industries; win the recognition and praise of customers with high-quality products and professional services, and establish a solid reputation in the industry. A good reputation.

Professional Endoscope Solution  
Service Provider

Every step of iBorescope, Practical and weighty, Just because of we are moving forward one step at a time, That makes us go further and firmer……



### **Service Idea**

Concentration · Focus · Professional



### **Core Values**

Honesty / Unity / Gratitude / Mutual help

### **Employees are the most valuable asset of an enterprise**

Employees are the most valuable asset of an enterprise

Start with bits and pieces, start with details

Start with standards, build a harmonious customer-group relationship

Recruit talents and appoint people on their merits,

Professional dedicated, form a first-class elite team

# BRAND HISTORY

**2013**

Founded in Shenzhen, China. iBorescope entered the industrial endo-scope market with resources, talent, technology and capital.

**2017**

Over the years, iBroescope has successfully launched a series of high-end intelligent, precise control, high-definition endoscopes.

**2018**

iBroescope Positioned itself as a professional endoscope solu-tion provider, diversified appli-cation fields, serve well-known customers around the world.

**2019**

iBroescope won the national high-tech enterprise certification, various indus-try patents, and passed the quality management system ISO certification.

**2020**

iBroescope identified as "Science and Technology Enterprises" by Shen-zhen Municipal Science and Tech-nology Innovation Commission

**2021**

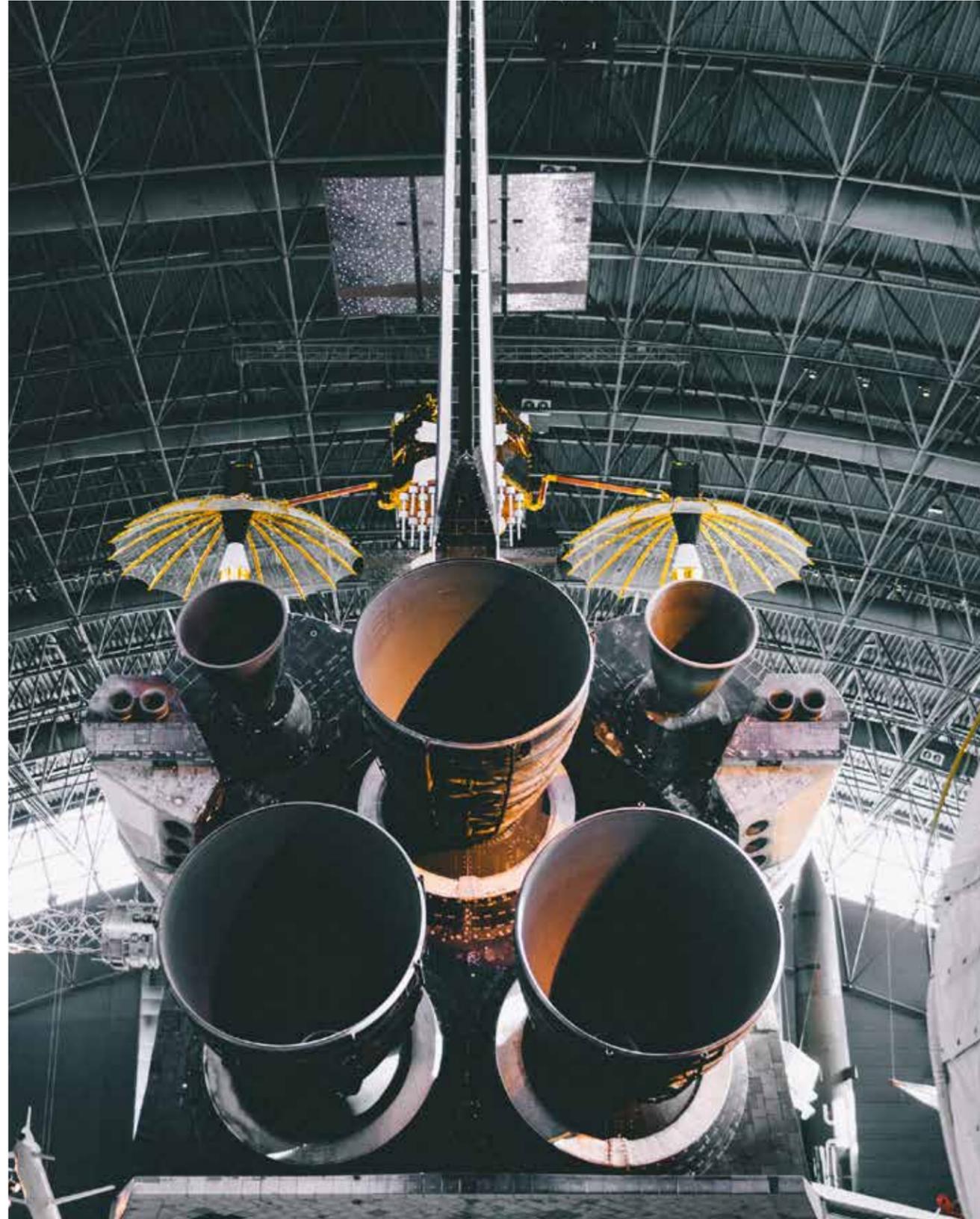
iBroescope R&D building was put into operation in Songshan Lake Science and Technology Park DongGuang, GuangDong, China.

Excitement continues...



# HONORARY QUALIFICATION





## SERIES PRODUCTS

iBorescope has a number of intelligent integrated series of industrial endoscopes, which have the characteristics of flexible operation, convenient carrying, and intuitive detection. The whole series endoscopes are equipped with ultra-close-focus million high-definition cameras and industrial-grade touch LCD screen, which show details that human eyes are invisible to see. The diameter of the probe is as small as millimeters, and it supports 360° omni-directional head swing, and it can freely shuttle through the interior of non-detachable equipment, the inner surface of narrow gaps, and other special environment. Efficiently detect and record various defects such as corrosion, rust spots, cracks, iron filings etc., to provide a reliable basis for subsequent maintenance and repairs.

At present, iBorescope industrial endoscopes are used all over the world, mainly used in aerospace R&D, manufacturing and maintenance, automobile R&D, production and after-sales, oil and gas chemical industry, shipbuilding, railway locomotive manufacturing, power plants (thermal power, nuclear power, wind power, hydropower), scientific research/university, pot inspection/special inspection, electrical equipment/electronics industry, precision parts processing and manufacturing, machinery manufacturing and other industries.



# BY SERIES

Handheld Industrial Endoscope

iBorescope BY series industrial endoscope, is high end intelligent industrial endoscope. This series equipped with 5.7 inch industrial grade touch screen LCD screen, double view dual lens, adopt the Comparative measurement to achieve point-to-point, point-to-line, area measurement, and adopt adaptive noise reduction technology to capture high-definition still pictures.



## Product technical parameters

Host	
Display	5.7-inch industrial touch LCD screen
Audio	3.5mm earphone/microphone jack
Dimension	360*160*60mm
Output	VGA video output (Dual screen synchronous display), dual USB output port
Storage	64GB SSD and can be expandable up to 512GB
Power	Special rechargeable lithium battery pack, online charging, battery life $\geq 4$ hours
IP grade	Host IP55, Probe IP67
Operating temperature of the host system	-10°C ~ 70°C , Low temperature without preheating (customized -40°C ~ 85°C )
Storage temperature	-20°C~80°C
Relative humidity	Max 95%, No condensation
Camera probe	
Probe Dia	6mm \ 3.9mm 2.8mm \ 2.4mm \ 2.2mm \ 1.8mm \ 1.2mm
Pixel	1000,000 pixels \ 450,000 pixels \ 160,000 pixels
Length	1~6m( other customized) 1-2m
Articulation	360 degrees full directions
Guide swing head Angle	$\leq 200^\circ$
DOF	3~30mm、5~120mm、8~150mm、12~200mm、50~infinity
FOV	90°~140°
View direction	Front, side, dual view (Dual screen synchronous display) Front and side switched
Illumination	Rear high power LED fiber optical transmission
Brightness of illumination	up to 100000+lux
Operating temperature	-20°C~80°C



## 01 /Comparative measurement



Measurement by comparison method: the unknown quantity is detected by a known standard quantity for measurement purposes, and the value of the 0.01mm margin is marked.

## 02 /Automatic identification of defects



Common endoscope visual detection mainly relies on manual discrimination of defects, which is inefficient and leads to misjudgment or side inspection. Customized automatic detection and defect identification system can improve detection efficiency.

## 03 /Remote Connectivity



Wi-fi can be used to realize remote connectivity, and the video scenes being tested can be shared with off-site experts for communication and diagnosis, so as to improve detection efficiency and realize multi-directional collaborative remote service functions.

## 04 /Smart editing pictures



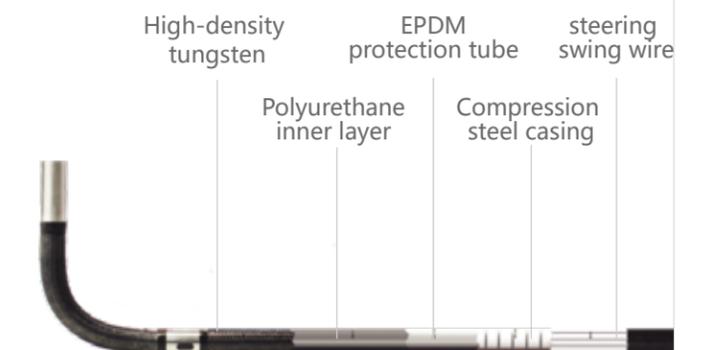
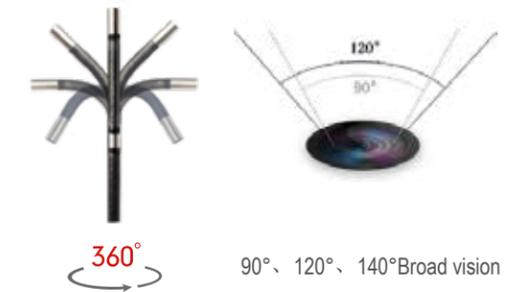
The watermark can be named in Chinese and English, which is convenient to trace the defect brush marks and facilitate the classification of the later detection values.

## 05 / The same screen display



Two million HD cameras, direct and side view, real-time display of dual-perspective images on the same screen, completely solve the multi-dimensional simultaneous detection of pain points, improve detection efficiency.

## 06 / Free rotation



Wear-resistant four-layer tungsten wire weave, 360° omnidirectional swing

# APPLICATION AREA



## Aerospace applications:

Users can create customized inspection files for aerospace research and development, aircraft engine turbine blades, combustors crack, body structure frame, and engine cylinder, fuel pipe, oil pressure parts, nozzle parts and other defects repair.



Engine testing



Parts testing

## Other fields



Automobile manufacturing



Oil and gas chemical industry



railway locomotive

# CASELIST

## Service first customer oriented

Participated in a number of scientific instrument projects, testing, analysis and research under complex working conditions;

Invited to Xi 'an Aviation RESEARCH and development International Forum to discuss aviation technology research and development, equipment development and industrialization;



# BK SERIES

Handheld Industrial Endoscope

iBorescope BK series industrial endoscope, equipped with 5-inch HIGH-DEFINITION LCD display, 360° all-round guidance articulation function, 720P MEGA HD camera, can intuitively judge whether the observation part is qualified, support photography and video archiving, picture and video clear; This series of industrial video endoscope can be used in precision casting, pharmaceutical manufacturing, automobile manufacturing and other application scenarios.



## Product technical parameters

Host	
Model	BK series
Dimension	350*155*59mm
Display	5 inch IPS HD LCD
SD card support	32GB(max 128GB)
Video output	HDMI HD Interface
Video/Image format	MP4/JPEG(.JPG)
Image control	Freeze, photograph, zoom, flip, video playback, analog ruler function
System language	English \ German \ Spanish \ French \ Italy \ Japanese \ Chinese \ Dutch
Battery working time	more than 4 hours
Angle of bending	160 degrees
Pixels	1million \ 450,000 \ 160,000
Length of the insert tube	1m-10m
Probe Dia.	6.0mm \ 3.9mm \ 2.8mm \ 2.4mm \ 1.8mm \ 1.2mm
View of angle	90° \ 120° \ 140°
Depth of field	3mm-70mm \ 5mm-100mm \ 8mm-150mm \ 12mm-200mm \ 50mm-infinity
Articulation	360 degrees
Working temp.	-10°C-50°C, low temperature no preheat need
Probe working temp.	-20°C-70°C
Storage temp.	-20°C-60°C
Relative humidity	max 95%, No condensation
Protection grade	Insert probe IP67, host IP54

# APPLICATION AREA

## Automotive Manufacturing applications:

Mainly used in automotive maintenance and manufacturing, wind power and other fields, using industrial endoscope to detect the engine internal components of carbon accumulation, wear, abnormal sound cause, corrosion and other faults. Inspection and maintenance of nozzle, cylinder head and turbocharger.

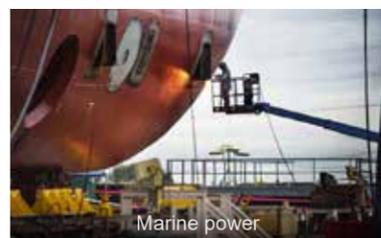


Parts inspection



Engine inspection

## Other fields:



Marine power



wind power industry



pharmaceutical manufacturing

# CASELIST

## Service first customer oriented

Many times invited to participate in the auto parts advanced manufacturing technology seminar;  
2021 the third Wuhan Auto Parts Manufacturing Technology Manufacturing Seminar;  
The 10th International Automotive Powertrain Intelligent Manufacturing Summit in 2021;  
Undertake technical analysis of automobile industry for BYD, Anhui Automobile Manufacturing, Great Wall Motor Power, BMW and other industries.



# BF SERIES

Industrial Endoscope

iBoscope industrial video endoscope BF series is mainly used for online video detection. The image is delicate and clear, and the front-end probe can be customized according to the actual working conditions. It is mainly used in automobile manufacturing, aerospace, precision casting and other visual detection scenes.



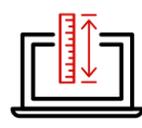
10-inch, 15.6-inch  
HD touch screen



Support interchange  
different type of probes



Stable signal,  
long working time



Can be equipped  
with comparative  
method measurement system



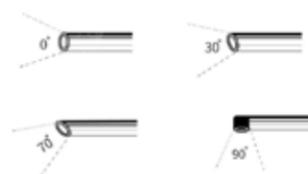
Wall-mountable



Desktop



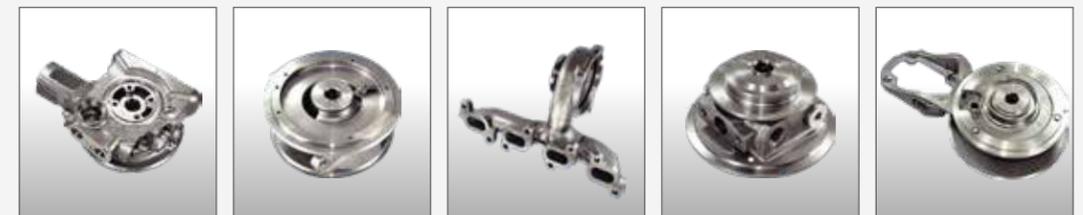
Multi angle optional



## Product technical parameters

Host	
Display	10 inch, 15.6 inch industrial control touch LCD screen
OS	Windows
Output	HDMI, USB
Power	On line adapter current input
Protection grade	Probe insertion tube IP67
Camera	
Insertion tube diameter	6mm \ 3.9mm \ 2.8mm \ 2.4mm \ 2.2mm \ 2.0mm
Pixel	1.0 MP \ 450,000 \ 160,000
Insert tube working length	Customizable length
Oriented	One/Two/Four ways/Customized direction
Guide swing head Angle	max up to 220°
DOF	3mm ~ 30mm/5mm ~ 120mm/10mm ~ 200mm/50mm ~ infinity
FOV	90°/120°/140°
Visual direction	Front view/Side view/Dual view
Illuminated type	Rear high power LED fiber optical transmission illumination
Observation angle	0°/30°/70°/90° for optional or customized according to the service environment
Insert Probe type	Interchangeable (support different probes)

## Casting preferred



# APPLICATION AREA

## Precision casting areas application:

High-end customized equipment, consumable materials design. It can be used for quality control and blind hole, straight hole and staggered hole detection in various precision machining, wool embryo casting and mechanical machining processes. All kinds of die casting holes in the inner cavity, lack of material, slag, runner and other visual detection.



Pipeline inspection



parts inspection

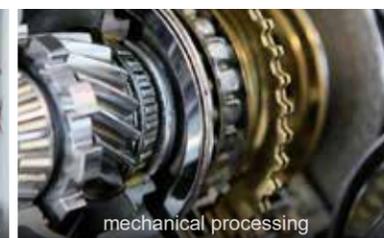
## Other areas:



Casting industry



precision machining



mechanical processing

# CASELIST

## Service first customer oriented

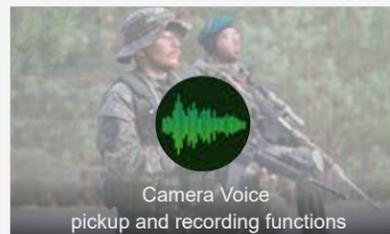
When you are in the inspection services business, you need portable and reliable NDT equipment to do your job as efficiently as possible. Adhere to the open innovation, win-win cooperation, and the coordinated development of the global strategic partner, to become with endoscopic solution.



# BV SERIES

Handheld Industrial Endoscope

BV military police series is ultra-far infrared HD recording endoscope, equipped with 5-inch HD LCD screen, can still be clearly seen under the hot sun; Equipped with ultra-far infrared high-definition camera, the camera side supports real-time recording, which can be used in criminal investigation, security check, explosive disposal, drug control, anti-smuggling, search and rescue and other fields, with a wide range of applications.



## Product technical parameters

Host	
Size	350*155*59mm
Display screen	5.0 inch IPS industrial LCD screen\3.5 inch
Storage	32G Micro SD Card (max 128GB)
Video output	HDMI Video output
Image / Video	JPG/MP4
Image Control	Freezing, zooming, photographing, flipping, video playback and analog ruler functions
System language	Chinese, French, English, German, Spanish, Italian, Japanese
Power supply	≥4 hours
Insert tube diameter	Φ6.0mm Φ3.9mm
Illumination type	Rear LED fiber optical transmission illumination
Pixels	1 .0 MP 450,000 pixels
Length probe	1m-5m (Others customized)
Articulation	360 degrees
Bending angle	160 degrees
DOF	Red light / White light 50mm~infinity
Infrared wavelengths	No red exposure 940nm, red exposure 850nm
View angle	75°/ 84 °
Probe material	Tungsten wire braided
Operating temperature	-10℃~50℃, low temperature without preheating
Probe working temperature	-20℃~70℃
Storage temperature	-20℃~70℃
Relative humidity	Maximum 90%, no condensation
Protection grade	probe insertion tube IP67

# APPLICATION AREA

## Police security areas:

Mainly used in public security, armed police, fire, customs and other departments, used in criminal investigation and explosive disposal, security, anti-smuggling, search and rescue and other related work, overall light weight, easy to carry, simple operation, high reliability, etc, can be realized in narrow space more flexible used.



## Other fields:



# CASELIST

## Service first customer oriented

Law enforcement officers need the professional tools to do their jobs efficiently and safely. Whether it's finding hidden smuggled goods at the border or analyzing the chemical composition of suspect materials, advanced inspection solutions play an important role. Police were used to view inaccessible areas, such as sealing cargo containers, to directly search for illegal material, can be realized in narrow space more flexible used.



# BG SERIES

Handheld Industrial Endoscope

iBorescope BG series is HD high resolution industrial endoscope. This endoscope can perform NDT inspection that is invisible to human eyes without disassembling and destroying the inside of the device, it clearly shows the internal situation, and quickly detect many defects, such as pores, lack of material, veins, and defects in the processing process. Burr, cleanliness of the clear process, etc.



## Product technical parameters

Host parameters	
Model	BG series
Dimension	350*155*59mm
Screen	5 inch IPS wide angle LCD screen
Storage	32G
Video Output	HDMI video output port
Image/Video Format	JPG/MP4
Image Control	Freezing, zooming, photographing, flipping, video playback and analog ruler functions
System Language	Chinese, French, English, German, Spanish, Italian, Japanese
Battery Charging Time	≥4h
Steering swing angle	≤160°
Resolution	1MP
Length	1-10m
Diameter	3.9mm/6.0mm
View Angle	90°120°140°for optional
DOF	5-100mm/12-200mm
Orientation	360°Omnidirectional head
System working temperature	-10℃-50℃, No need to preheat at low temperature
Probe working temperature	-20℃-70℃
Storage temperature	-20℃-60℃
Relative humidity	Max 90%, No condensation
IP grade	Probe IP67

# APPLICATION AREA

## Manufacturing field:

Inspection probe of WS-G series industrial endoscope is Oil-resistant and waterproof, more wear-resistant, easy to use, and cost-effective, it is undoubtedly an important testing equipment for enterprises to conduct manufacturing, maintenance and quality control, and at the same time, it can minimize the subsequent maintenance costs.



Pipeline inspection



Parts inspection

## Other areas:



Maintenance and testing



Electrical equipment



Machinery industry

# CASELIST

## Service first customer oriented

BG series can quickly understand the internal faults of steam turbines, gas turbines, gearboxes, etc. more quickly and effectively, and check defects such as rust spots, cracks, corrosion, and corrosion welds. so as to minimize downtime and optimize the maintenance plan; In some narrow internal passages and small spaces, we provide handheld portable industrial endoscopes. The solid protective design can effectively protect your equipment. The powerful battery power supply guarantees you more high-quality endoscopic image inspection.



# BP SERIES

Handheld Industrial Endoscope

BP series industrial endoscope is a newest video endoscope product launched iBorescope with mega pixel High-definition camera, clear and delicate picture quality, the insertion tube is oil resistant, wear-resistant, and waterproof. it can intuitively judge the viewing angle whether the test part is qualified or not, it supports photo and video archiving, suitable for aerospace manufacturing, automobile manufacturing other fields.

Mega pixel HD camera



6 inch 1080P LCD screen

6"

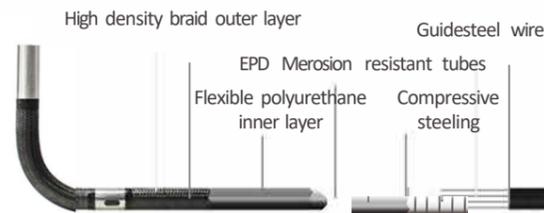
Mobile phone remote WIFI connection  
Can carry multiple mobile phones  
(optional)



8 hours long battery life



Tungsten wire precision weaving, durable usage



1.2mm-6mm various diameter probes for optional



360° full direction articulating



Insertion tube and probe  
Waterproof, oil-resistant  
and anti-corrosion

## Product technical parameters

Host/System	
Host dimension	375X175X78mm
Screen	6 inch HD screen (1920x1080)
File storage capacity	TFcard 32G (Other optional)
Video output	HDMI video output port
Image/Video format	JPEG (JPG)/AVI
Image control	Freeze, zoom, take photo, flip, video playback, analog ruler function
System language	Chinese, English etc
Battery life	>8 hours
Storage temperature	-20°C~60°C
Relative temperature	Max 90%, No condensation
P grade	Host P54
Probe/Camera	
Probe length	1m~10m
Camera diameter	6mm/4.5mm/3.9mm/2.8mm/2.4mm/2.0mm/1.8mm/1.2mm
FOV	90°/120°/140° (Optional)
DOF	3~70mm/5~100mm/8~150mm/12~200mm/50~1 infinity
Articulation	360° Full direction articulation
Illumination type	Rear LED fiber optic conduction, white light illumination
Probe working temperature	-20°C~70°C
IP Grade	Probe IP67
Bending angle	<160°
Camera resolution	>100W Pixel



## Use environment



Aerospace manufacturing



Car manufacturer



Industrial manufacturing



Wind power



# COOPERATIVE PARTNER

合作伙伴

 GREE 格力	 TOYOTA	 上海大众汽车 SHANGHAI VOLKSWAGEN
 中国南方航空 CHINA SOUTHERN	 南京航空航天大学	 中国北方航空公司 CHINA NORTHERN AIRLINES
 mindray 迈瑞 生命科技如此亲近	 BYD	 中国兵器工业集团公司 CHINA NORTH INDUSTRIES GROUP CORPORATION
 CCAG — 中国长安 —	 深圳航空 Shenzhen Airlines A STAR ALLIANCE MEMBER	 HNA 海航集团

 中国中车 CRRC	 SOUTHWEST OFFICIAL AIRLINE OF THE SAN ANTONIO SPURS	 东海航空 DONGHAI AIRLINES
 四川航空 SICHUAN AIRLINES	 深圳市智能机器人研究院 Shenzhen Academy of Robotics	 上海交通大学 1906
 中国科学院	 海南航空 Hainan Airlines	 中广核 CGN
 中国东方航空 CHINA EASTERN	 春秋航空 CHUNQIU AIRLINES	...