



Industrial Video Endoscope

Product Catalogue



TX101 3.5 Inch Monitor Borescope

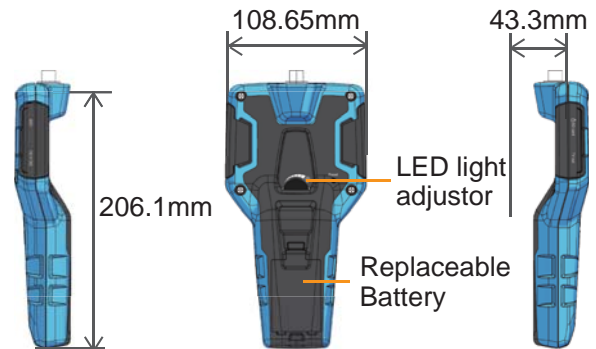
- ▶ 3.5" TFT LCD Monitor
- ▶ Quick snap / video recording
- ▶ Splash-proof design
- ▶ Replaceable battery
- ▶ Mirror image supported
- ▶ 9 images display
- ▶ 2 times magnification
- ▶ Selectable dual photo comparison
- ▶ Supports 15 languages



Specifications

Power	DC5V
Display	3.5" TFT LCD Monitor
Pixel Count	640 x 480 pixels
Interface	Mini USB 1.1/ AV out / AV in
Battery	Rechargeable Li-ion Battery (3.7V 2300mAh)
Video Out Format	NTSC & PAL
Recording Medium	4G SD card (can be used up 32G)
Compression Format	MPEG4
Image Format	JPEG (640 x 480)
Video Format	ASF (640 x 480)
Language	Supports 15 languages
Zoom	2 times magnification
Mirror	Reflecting Object Surface
Illuminant Intensity	Adjustable
Photo/Video Replay	Supported
Dual Photo Comparison	Supported

Dimensions



Accessories

- USB Cable
- Adapter (I/P: 90~264VAC, 50/60HZ; O/P: 5VDC 2A)
- SD card
- AV out cable
- Li-ion Battery (3.7V/2300mAh)

Applications



Security



Power Generation



Oil, Gas



Welding



Barral Inspection



Automotive



















Building



Aviation

Specifications of Camera Probes

Model	Main Application	Application Examples	View of Angle	Focal Range	Sample Images
3.9mm 	For small hole or narrow pipes	Inner inspection of machine and engine	56°	15 ~ 50mm	
4mm 	For inspection of vehicles or industrial equipment	Inner inspection of machine and engine	56°	15 ~ 50mm	
5.5mm 	For inspection of automotive and aviation	Inspection of turbine and transmission	67°	20 ~ 80mm	
5.5mm side view 	For inspection of building and air conditioner	Inspection of air conditioning ducts and wall cavities,	67°	20 ~ 80mm 10 ~ 16mm 4 ~ 5.5mm	
8mm 	For inspection of aviation and boat	Inspection of combustion chamber and engine	64°	20 ~ 60mm (short focus) 80mm ~ 1000mm(long focus)	
10mm 	For inspection of aviation and building	Inspection of turbine and ventilation systems	64°	20 ~ 60mm (short focus) 80mm ~ 1000mm(long focus)	
25mm 	For Inspection waste water systems and storm water systems	Inspection waste water systems and storm water systems	73°	40 ~ 700mm	
28mm 	For inspection of water and sewerage	Inspection detecting rusty or clog areas of water supply and waste pipes	140°	100mm ~	

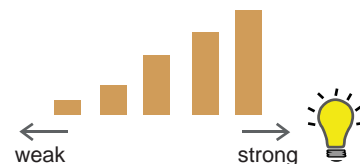
Varieties of interchangeable camera probes

Insertion probe is another important part of a video borescope. Their lengths, diameters and functionality vary greatly depending on the inspection settings. LED lights from 4 to 12 high-intensity white light LED elements. Insertion probes can be rigid, semi-rigid or flexible with extra durable materials, such as stainless steel. All the probes are durable, water, oil and ware-proof.



Adjustable high-intensity LEDs

What kind of a type of materials used on surface of inspecting area, such as shiny metal type or even rubber type with minimal light flex, High-Intensity White LEDs can be adjusted to appropriately illuminate your objects. It also helps prevent halation problems from reflection optimize the amount of light accordingly to achieve the appropriated image.



Optional Accessories

Metallic ball

Ball fixed on the borescope head can be opened. These instrumental ball makes it easier to guide the borescope tube. It minimises lens pollution.



Mirror tubes

This mirror tube slides over the main stainless insertion tube, increasing the slightly and allows viewing 35,45 and 55 degrees to the main borescope shaft. A small optical mirror is mounted so that the image is reflected back from the side wall of the cavity being inspected. Since the mirror tube fits over the borescope it can be rotated 360 degrees so a complete inspection of the inside diameter can be made without rotating the borescope itself. However, the mirrors are a very economical solution to the requirement of purchasing both a straight and side view scope.



2 Way Articulation Borescope



360° Rotation

Fixer



Angle adjusting Knob



- ▶ 4mm / 5.8mm camera probe
- ▶ High resolution 640 x 480 pixels
- ▶ 4 adjustable high brightness LEDs
- ▶ Articulation, 150° in each direction
- ▶ Cable Length: 1 / 2 / 3 / 5M

Specification

Camera Diameter	4mm / 5.8mm
Cable Length	1 / 3 / 5m
Pixel Count	640 x 480 pixels
Field of View (FOV)	56° / 67°
Depth of Field (DOV)	20mm~80mm
Light source	4 high brightness LEDs
Articulation	300°
Operating Temperature	-25° to 60° C (-13° to 140° F)
Waterproof	IP67
Lamp Output	1360 Lux at 20.6mm

4 Way Articulation Borescope

- ▶ 360 degree rotation of the probe
- ▶ 5.5mm / 7.8mm diameter of probe
- ▶ Cable Length: 1M

(5.5mm camera head
150 degree in the each direction)



Adjusting Knob

Specification

Camera Diameter	5.5mm / 7.8mm
Cable Length	1 / 2 / 3m
Resolution	640 x 480 pixels
Field of View (FOV)	70° / 67°
Depth of field (DOV)	10.5mm~80mm / 20mm~80mm
Light source	4 high brightness LEDs
Operating Temperature	-20° to 60°C (32° to 122°F)
Waterproof	IP 57 / IP67
Lamp Output	1360 Lux at 20.6mm

Fixer

Adjusting Knob(R and L)

Adjusting Knob(D and U)

Fixer



(7.8mm camera head
150 degree in the each direction)

Rigid Endoscope

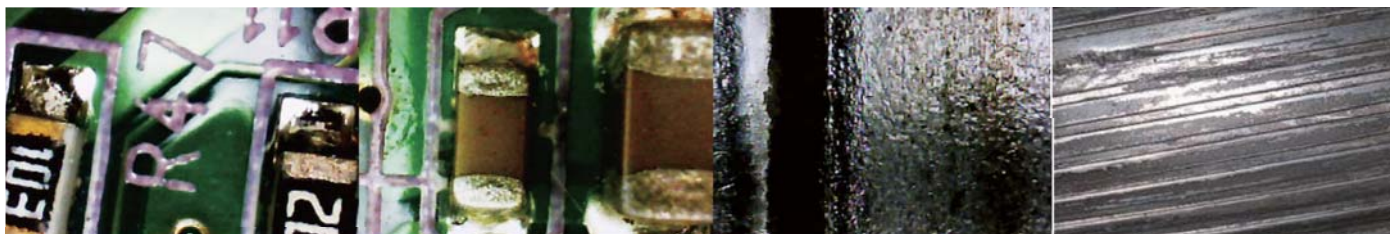
- ▶ 4 high brightness LEDs
- ▶ High resolution 720X625 pixels
- ▶ Optimal distance fixer
- ▶ Glare-free close-up viewing field
- ▶ 5.5mm side view camera
- ▶ Waterproof IP67



**Worldwide
New Design
Patent**



Applications



Integrated Circuit
Inspection

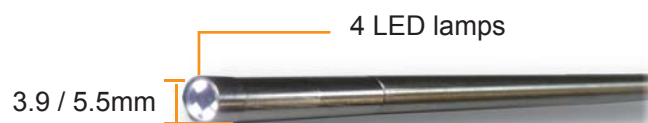
Rifle-line Inspection
Defect Inspection

Specifications

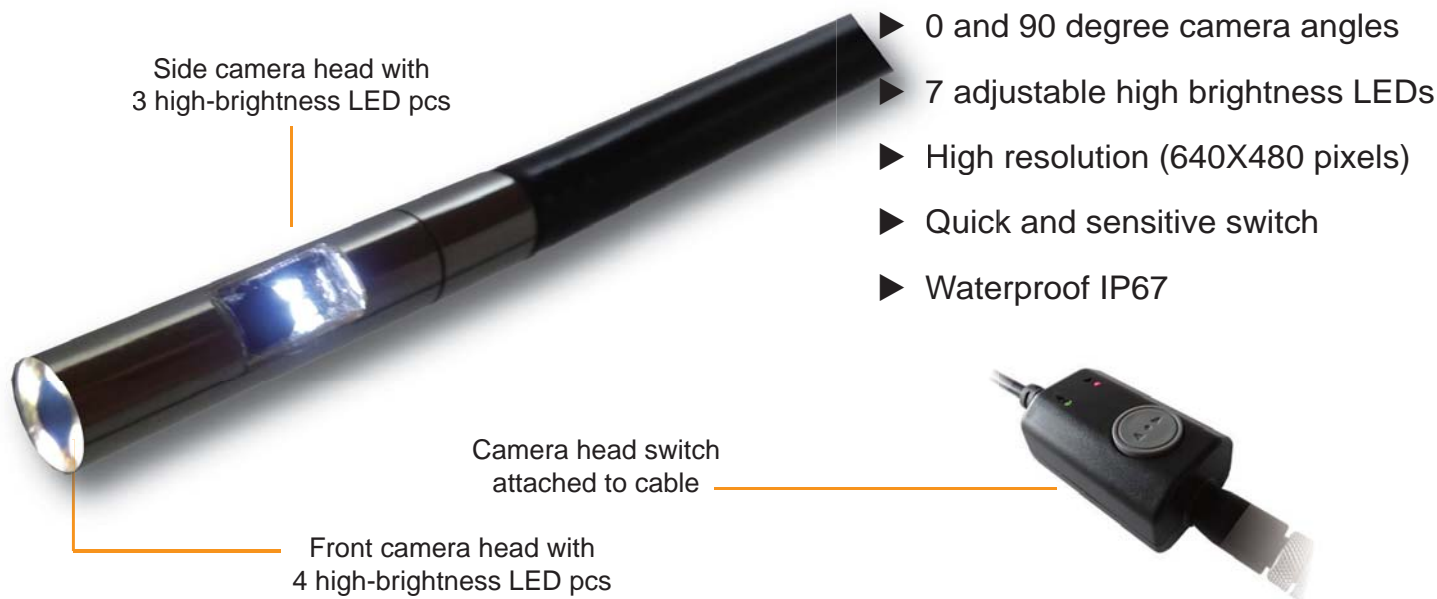
Camera Diameter	0 degree angle camera 5.5 / 3.9mm 90 degree angle camera 3.9mm
Pixel Count	720 x 625 pixels (5.5mm camera) 320 x 240 pixels (3.9mm camera)
Field of View	58°
Depth of Field	4mm-5.5mm 10mm-16mm 20mm-80mm
Video Output	NTSC
Available Length	6" , 12" , 18"
Number of lamps	4 high brightness white LEDs
Brightness Control	Manual
Operating Temperatur	0°C ~ 60°C
Humidity	95%
Waterproof	IP67

Forward view probe

0 degree angle forward view camera with optional angle lens to widen viewing field.



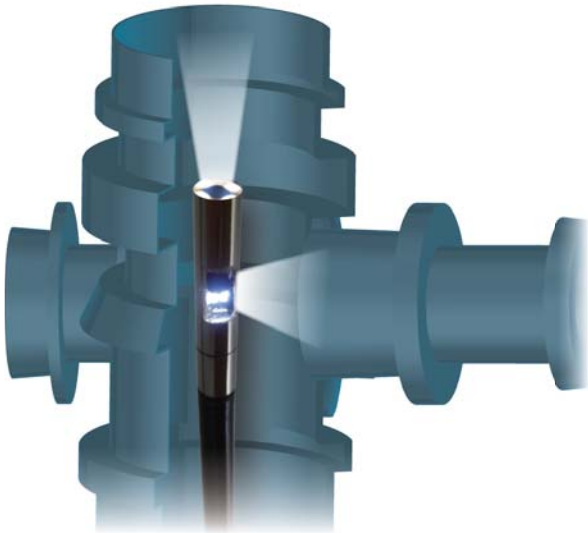
The best design to meet your demands for side and forward view – Dual Lens Probe



Operation



Specifications



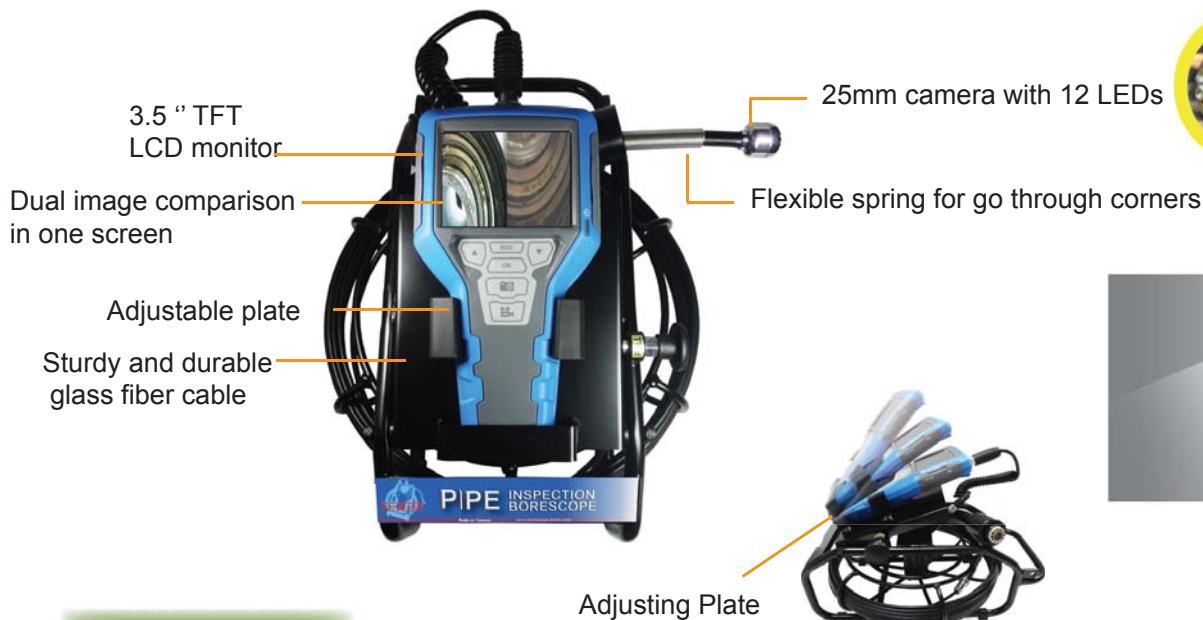
Camera Diameter	5.8mm
Cable Length	1/2/3/5/10m
Pixel Count	640 X 480 pixels
Field of View (FOV)	55°
Depth of Field (DOF)	20mm~ 60mm
Light source	High brightness white LEDs
Number of Lamps	4 on front and 3 on side camera
Lamp Output	4200 Lux at 20mm
Operating Temperature	-20 ° to 60 ° C (-4° to 140° F)
Relative Humidity	95% max
Waterproof	IP67

Pipe Inspection Borescope Camera

- ▶ Depth of field from 40mm to 700mm
- ▶ Smooth cable-collecting design
- ▶ 12 High-intensity white light LED elements
- ▶ Inspect the areas that are normally hard to reach
- ▶ Brightness can be accurately adjusted allowing an optimal screen
- ▶ Adjustable spring can go through 90 degree bends or "U" traps



Taiwan Patent Protected M 447208 D 155278



Specification

Camera Diameter	25mm / 28mm
Pixel Count	720 x 480 Pixels
Video Format	NTSC
Field of View (FOV)	73° / 140°
Depth of Field (DOF)	40 ~ 70mm / 80mm~
Housing	Copper with nickel coating
Bending Radius	Ø 40 ~ 75mm
Pipe from DN	Ø 30 ~ 75mm
Outer Sheathing	Glass Fiber
Lamp Output	7300 Lux at 20mm
Lamp Life	10000hrs., median
Operation Temperatures	-20°C ~ + 70°C (- 4°F ~ 158°F)
Waterproofing	IP67
Lighting	12 White LEDs (3 φ)

Applications

- Examine and maintain airplanes and ships
- Waste water systems, storm water systems, pipelines of different kind, drains and ducts
- Inspect compressors, condenser tubes, heat exchangers and tubes, mud motor, pipelines, and steam and power turbines.



(Corrosion Inspection)



(Oil groove)

Specifications Chart

Camera Diameter (3.9mm / 4mm)

Camera Diameter	3.9mm / 4mm
Pixel Count	320 x 240 pixels
Housing	Stainless Steel
Field of View (FOV)	56°
Depth of Field (DOF)	15mm~50mm
Number of lamps	4 LED
Lamp Output	5000 Lux at 15mm
Tip Operating Temperature	-20° to 70°C (-4° to 158°F)
Waterproof	IP57

Camera Diameter (5.5mm / 5.5mm side view)

Camera Diameter	5.5mm / 5.5mm side view
Pixel Count	720 x 525 / 640 x 480 pixels
Housing	Stainless Steel
Field of View (FOV)	67°
Depth of Field (DOF)	(5.5mm)20mm~80mm / (5.5mm side view) 10mm~16mm / 4mm~5.5mm
Number of lamps	4
Lamp Output	1500Lux at 20mm
Tip Operating Temperature	-20 ° to 60 ° C (-4° to 140° F)
Waterproof	IP67

Camera Diameter (8mm / 10mm)

Focus type	SF (short focus) LF (long focus)
Camera Diameter	8mm / 10mm
Pixel Count	720 x 525 pixels
Housing	(8mm) Copper with nickel coating / (10mm) Stainless Steel
Field of View (FOV)	(8mm) 64° / (10mm) 64°
Depth of Field (DOF)	SF (20mm~60mm) LF (80mm~1000mm)
Number of lamps	6
Lamp Output	(8mm) 1500 Lux at 20mm / (10mm) 2050 Lux at 20mm
Tip Operating Temperature	(8mm) -20° to 60°C (-4° to 140°F) / (10mm) 0° to 50°C (32° to 122°F)
Waterproof	IP66

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