

ATVISION^{PRO}

AI Powered, Motorized HD Videoscope



5.7 Inches
HD Screen



8X Zoom
Capability



Multi Probe
Compatible



360°
Articulation



HD
Image



Wireless
Transmission



Long
Endurance

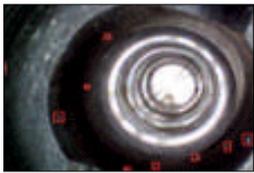
ATVISION^{PRO} is a multifunctional videoscope offers impeccable video quality for inaccessible areas in tubes, pipes, bores, engines, castings, etc. It has a flexible probe with high-definition 360° articulating camera at tip with ceramic based light source for necessary illumination.

ATVISION^{PRO} ensures detection of surface discontinuities like cracks, deposits, corrosion, wear & tear, etc. It plays vital role in detection of inner surface discontinuities and monitoring the assets.



Real Restore Image Effect

The high definition, high brightness light source helps you to clearly see defects in low light conditions. In case you have missed a defect during inspection you can review it from the recorded video by using Real Restore Image Effect feature.

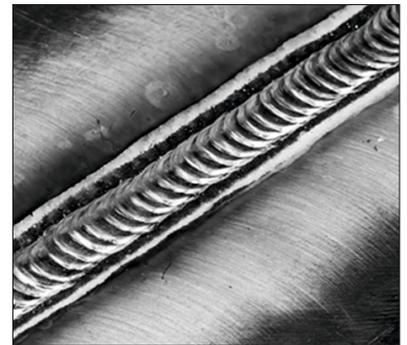


Automatic Defect Recognition Box

Once you switch defect recognition feature it divides the defects into three severity categories i.e. high, medium and low. Based on the severity the red box will automatically frame the defects point, assist in identification of the defects so that no defects are getting missed.



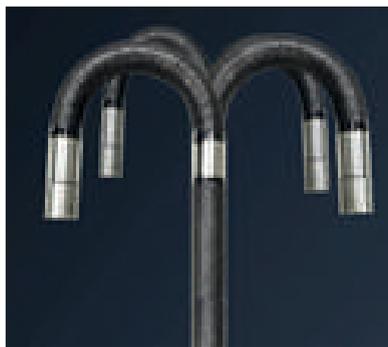
Negative Film



Black & White

360° Motorized Articulation

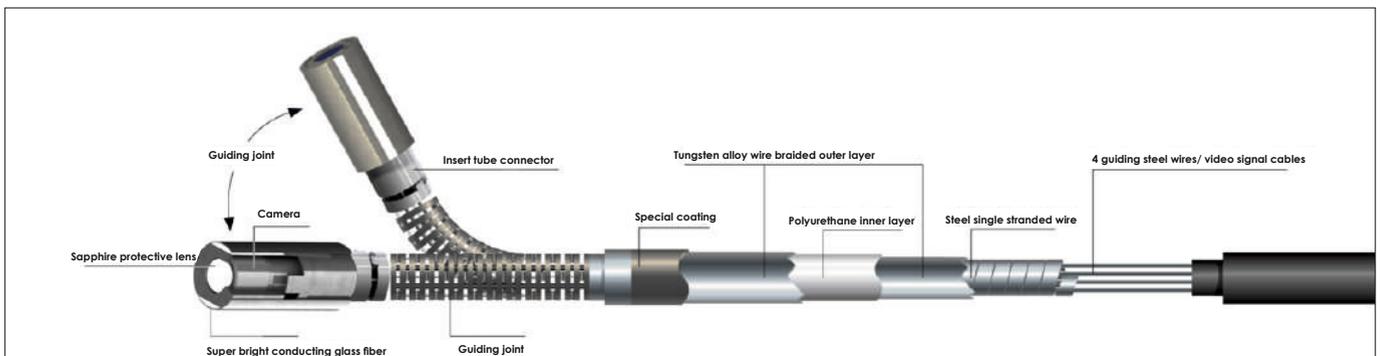
ATVISION^{PRO} multifunctional videoscope offers 360° motorized articulation in all directions with 210° oversized bending angle which helps to perform the inspection in hard-to-reach areas. One click lock or reset function enables control of articulation speed from fast to slow which improves the articulation efficiency & offers greater control to inspector.



360° Flexible Articulation



210° Oversized Bending Angle



Quick Universal Focus

Through the universal focus knob, change the depth of field (near focus → middle focus → far focus) of the probe to meet the different visual requirements.



Replaceable Optical Tips & Lenses

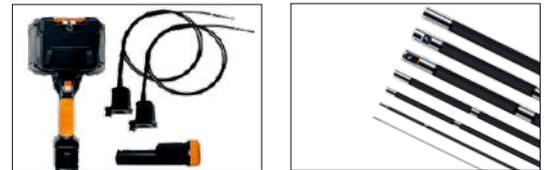
By replacing the **optical tips**, changes the near focus/medium focus/far focus depth of view or change to front/side view to meet the needs of multiple application conditions.



Optical lenses can be used for different depth of field and field of view(optional).

Multiple Probe Connection

ATVISION^{PRO} multifunctional videoscope has unique design allows you to connect multiple diameter (1.0mm / 1.8mm / 2.2mm / 2.8mm / 3.8mm / 4.2mm / 6.0mm / 8.0mm) multiple length(1m-10m) customizable for longer length.



Multiple Light Sources (Optional)

ATVISION^{PRO} allows you to choose from variety of light sources such as white light, ultraviolet light & infrared light. It can also be equipped with auxiliary lighting: white light/ultraviolet light. Depending on application user can have multiple light sources which makes **ATVISION^{PRO}** a very powerful videoscope.



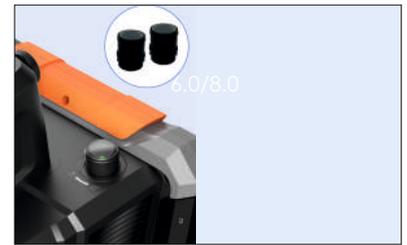
White Light Source



UV Light Source



Infrared Light Source



Auxiliary Light Source

Additional Features

ATVISION^{PRO} is equipped with variety of functions such as the standard comparison measurement, detection report, ultra-temperature warning, and intelligent management of files.

Measurement Mode

A variety of measurement modes are available. In the standard comparison measurement mode, a standard reference distance is selected, and the measurement data are determined with reference to this distance. In the comparison measurement mode, the measurement data can be calculated based on the measurement ruler.

Over Temperature Warning

Over temperature warning helps to protect the probe from getting damaged. The system displays real time temperature and if temperature is $\geq 70^{\circ}\text{C}$ it shows yellow warning, if the temperature $\geq 80^{\circ}\text{C}$ it shows red warning. If temperature is above 85°C then it shows ultra-high temperature alarm & automatically shuts off the unit.

Centerer Instrument

The front end of the tube is fixed in the middle of the centered fixture, so that the lens is always located in the axis center of the tube



Order Part Nos

ATVISION^{PRO}-XX-YY-Z-L

XX	Camera Dia (mm)
10	1.0
18	1.8
22	2.2
28	2.8
38	3.8
42	4.2
60	6.0
80	8.0

YY	Camera Length (m)
10-100	1-10(step of 1)
Z	Viewing
F	Forward
S	Side
F/S	Forward/Side
L	Light Source
V	Visible
U	UV
I	Infrared

Battery/Charging Installation

This instrument is supplied with 2 batteries, ensuring zero downtime. A single fully charged battery provides ≥ 4 hours of operation. The batteries support fast charging using the supplied charging adapter and can also be charged via power-delivery portable power banks for emergency use. The batteries are easy to install and remove.

Technical Specifications:

Display	5.7 inches HD touch screen	Articulation	360° motorized articulation
Display Resolution	1920*1080	Probe Positioning	Articulation lock, fine turn the probe
Image Resolution	1920 x1080/1280 x 720/640 x 480	Working Time	≥4 hours, support charging while use
Image Format	JPG, PNG (option) / MP4	Battery Capacity	11.1V/3200mAh
Video Output	HDMI	Light Source(optional)	White light /infrared light /UV light
Storage Medium	TF Storage Card	Auxiliary Lighting (optional)	White light/infrared light
Image Adjustment	Brightness, contrast, gamma, chroma, saturation, sharpness, white balance	Articulation Speed/Lock	Fast/slow motor-driven, automatic reset, articulation lock, step fine adjustment
Image Effects	Standard, negative, black-and-white film	Brightness	5 Steps manually adjustment
Report	MDI Report Generation	Magnifying	8x amplification
Wireless Image Transmission	WiFi (Optional) Long-distance wireless transmission image	Over Temperature Warning (optional)	Probe temperature display, high temperature alarm
Overall Size	334mm*167mm*132mm	Probe Material	Titanium alloy, wear resistant tungsten alloy wire
IP Grade	Probe, object lens, tube can withstand IP64 waterproof and dust-proof	Total Weight	About 1.6kg
Data Interface	Type-C port, TF bayonet, headphone jack, HDMI ports , data refresh ports		
Kit Contains	Carry Case, Videoscope, Battery module, charger, card reader, memory card, data cable, operation manual, Certificate of Conformance		

Probes:

Diameter (mm)	1.0			1.8			2.2			2.8			3.8/4.2			6.0/8.0				
View	Front	Front	Side	Front	Side	Front	Side	Front	Side	Front & Side	Front			Side	Front & Side					
Camera (Pixels)	40000			300000			1000000			300000			2000000	1000000	450000	1000000	1000000			
Image/video Resolution	400x400			640x480			1280x720			640x480			1920x1080	1280x720	640x480	1280x720	1280x720			
DOF (mm)	3-50	5-50	1-25	5-50	1-25	5-50	5-50	10-100 20-120	5-50 10-120	5-50			10-100 20-120			10-100 20-120	10-100 20-120			
FOV	120°	120°	120°	120°	120°	120°	120°	120°	90°	120°			140°	120°	120°	120°	120°			
Effective Work Length	1m			1-1.5m			1-5m			1-5m			1-3m	1-10m	1-10m	1-10m	1-3m			
Articulation	NA			Two-way			Two-way			360°/All-way			360°/All-way							
Bending Angle	No			210° big angle bending																
Light Source	Optic Fiber	LED	LED/Fiber	LED	LED/Fiber	LED	LED/Fiber	LED	LED	LED	LED	Optic Fiber	LED/Fiber	LED	LED	LED/Fiber				

Optical Lens Specifications:

Lens Model	AT-01	AT-02	AT-03
Diameter (mm)	6.0mm	6.0mm	6.0mm
Pixels	One mega pixel	One mega pixel	One mega pixel
View	Front view	Front view	Front view
FOV	120°	120°	120°
DOF	7-50mm	10-100mm	20mm-∞

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