

# bipol<sup>®</sup>

Instruments & Outils de précision



BIPOL PRO C<sup>HD</sup> High definition  
articulating  
video boroscope

[www.bipol.fr](http://www.bipol.fr)

# BIPOL PRO C<sup>HD</sup>

Articulating videoscope



BIPOL PRO C HD videoscope is a compact fully portable system made of a high resolution 720P CMOS camera mounted on an articulated probe with 4-way articulation.

Still images and videos can easily be recorded with a trigger located on the back of the videoscope.

Probes can easily be exchanged in a matter of seconds.

This videoscope offers high resolution, strong illumination and excellent image quality.

Available in lengths up to 7 meters with side vision probe, it is the perfect instrument for NDT inspections.



## INDUSTRY.

Maintenance inspections in food process, pharmaceutical or energy sectors. Welding integrity inspections on long distances. Gearbox, diesel engines.



## SECURITY.

Inspect boots, car doors, boats for hidden merchandise, drugs or weapons. Ready in seconds, get a clear view of what is behind the door...



## AVIATION.

Inspection of nacelle systems, helicopter or airplane turbines, blades, airframes or avionics in business jets and regional to long range aircrafts.

# MODULAR ROBUST VIDEOSCOPE WITH LOW MAINTENANCE COSTS

## Easy probe change in seconds

You can easily replace probes of each diameter in a matter of seconds. Thus resulting in multiple working inspection possibilities. Swap between 0° and 90° probes (for  $\varnothing$  3.8&6.0mm).

**Repair costs** are largely reduced due to the fact that repair estimates are based on price of spare video probes. When a probe is damaged during use, it needs just to be removed from videoscope and sent back to us. Additionally, it can be exchanged for a new one reducing **maintenance downtime** to 0.



## 0° & 90° direction of vision probes

Available diameters are 2.0 - 2.8 - 3.8 - 4.8 & 6.0 mm. Working lengths allow inspection up to 7 meters.

Probes in diameters 3.8 & 6.0mm are available with either 0° or 90° direction of visions. It allows side inspection on welding or tube integrity for example.

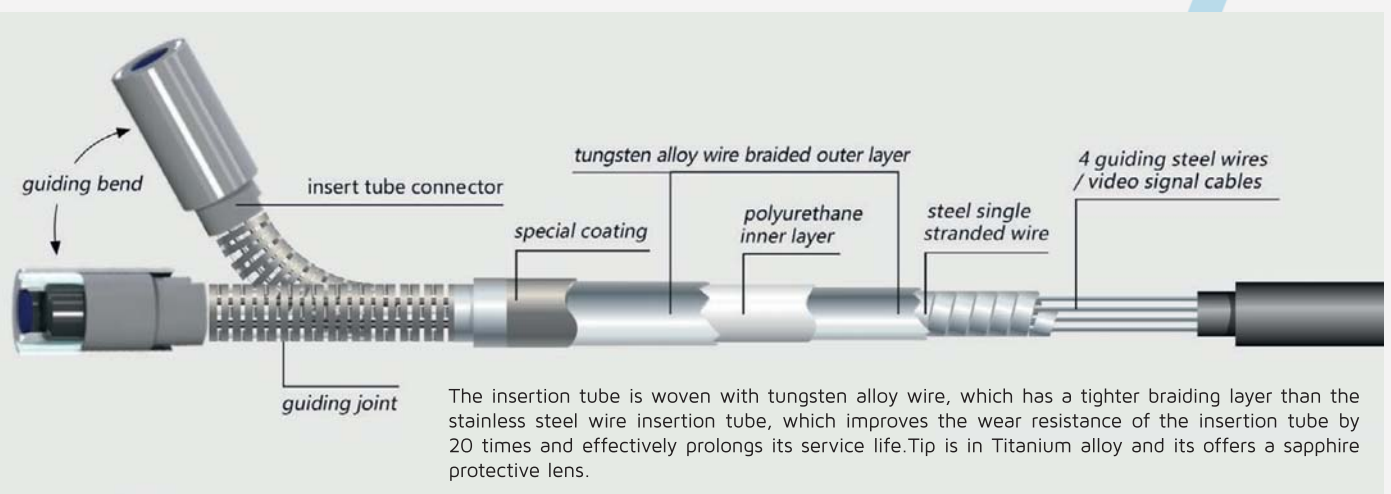


90° direction fixed objective available up to 7 meter length.  
Ideal For NDT welding Inspections



0° direction fixed objective available in on all diameters.  
Starting with diameter 2.0mm up to 6.0mm

## Wear resistant video probe



The insertion tube is woven with tungsten alloy wire, which has a tighter braiding layer than the stainless steel wire insertion tube, which improves the wear resistance of the insertion tube by 20 times and effectively prolongs its service life. Tip is in Titanium alloy and its offers a sapphire protective lens.

## SUPERIOR IMAGE QUALITY UP TO 1.000.000 PX

### High quality images and videos



TURBINE BLADE



WELDING

Record still images (JPEG up to 32 000) or video (MP4 up to 500 hours) in high resolution. Image and video resolution is up to 1280x720 pixels. What you see is what you record.

### Powerful illumination



Illumination is provided by either rear mounted fiber optic bundle or front whit LEDs. Light intensity can easily be adjusted on 7 different levels.

### HDMI ready & Daylight display

Connect the videoscope PROC to any monitor with the Mini HDMI cable provided for high resolution visualization of live images on a large screen.. The 3.5" LCD screen allows clear outdoor inspection in daylight.



HDMI video output

## COMPLETE INTERFACE - RULER FOR MEASUREMENTS & WIFI CONNECTION



Zoom in and out. Can be adjusted from 1x to 4x.



Images and videos are listed in a preview list with instant access for reviewing and editing.



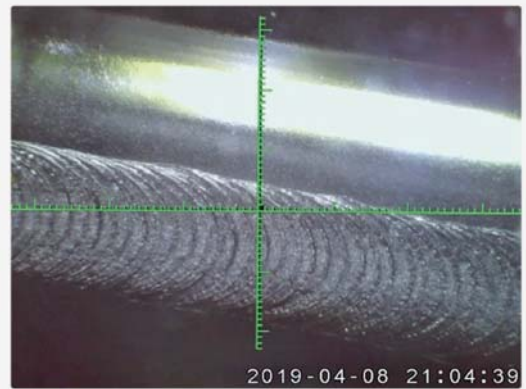
Live image can be displayed in either normal, Black & white or negative mode.



You can rotate in real time the image 180° to have constant upright picture.

### OSD Ruler for measurements

The PRO C videoscope is equipped with an on screen display Ruler on 2 axis. This allows standard measurements of sizes of cracks in aviation maintenance, wear, weldings or corrosion for example.



### Wifi compatible up to 10 m



In option, the PRO C is available with a wifi transmitter that allows multiple screen visualization of image. It is compatible with any ANDROID based tablet or Smartphone. Simply download the APP online and start sharing images and videos.

## FULLY EQUIPPED LIGHTWEIGHT & COMPACT VIDEOSCOPE



- ① Robust, shock proof but light and easy to carry carrying case with fittings for all parts, accessories (except rigid sleeve) and up to 3 probes.
- ② Mini HDMI cable for connection to LCD external monitor
- ③ USB Charging cable with EU adapter
- ④ Micro SD USB card reader
- ⑤ Spare batteries (in option)
- ⑥ PRO C videoscope
- ⑦ Magnetic base (+ screwdriver)



Easy to carry compact size carrying case.

### Accessory



#### Rigid stainless steel sleeve

Diameters 4.8 & 8.0mm - length 430 mm

Technical data	PROC HD 20	PROC HD 28	PROC HD 38	PROC HD 48	PROC HD 60
Screen	3.5" anti reflective for daylight use				
Camera diameters	2.0 mm	2.8 mm	3.8 mm	4.8 mm	6.0 mm
Working length	1.0 & 1.5 m	1.0 - 1.5 m	1.5 - 2.0 - 3.0 m	1.5 & 2.0 m	1.5 - 2.0 - 3.0 - 4.0 - 5.0 - 6.0 & 7.0 m
Articulation	4 x 160°	4 x 160°	4 x 160°	4 x 160°	4 x 160°
Camera resolution	200.000 px	200.000 px	300.000 px	1.000.000 px	1.000.000 px
Direction of vision	0°	0°	0° or 90°	0°	0° or 90°
Field of view	120°	120°	120°	90°	90°
Focussing range	2-50 mm		10-100mm		
Illumination	Optical fiber bundel				Optical fiber bundel or front White LEDs
Sheathing	Tungsten braid 4 layers - titanium tip & sapphire glass cover				
Protection rate	Host : IP57 - Probe : IP 67 (oil & water resist) - 90° probes are IP57 only				
Interface	4X digital zoom - Ruler - Image rotation 360° - Image preview				
Power supply	110-220 Va EU plug				
Battery	Removable LI-ion 18650 (3 hours runtime - 4 hours charging time)				
Connections	Video out, mini USB, HDMI				
Recording	Micro SD card 32 GB				
Images	640x480 JPEG	640x480 JPEG	640x480 JPEG	1280x720 JPEG	1280x720 JPEG
Videos	640x480 MP4	640x480 MP4	640x480 MP4	1280 x 720 MP4	1280 x 720 MP4
Working temperatures	-10°C to + 60°C				
Net weight (without probe)	0.55 kg				
Case dimensions	41x32x16 cm				
Gross weight	2.5 kg				
Warranty	1 year				



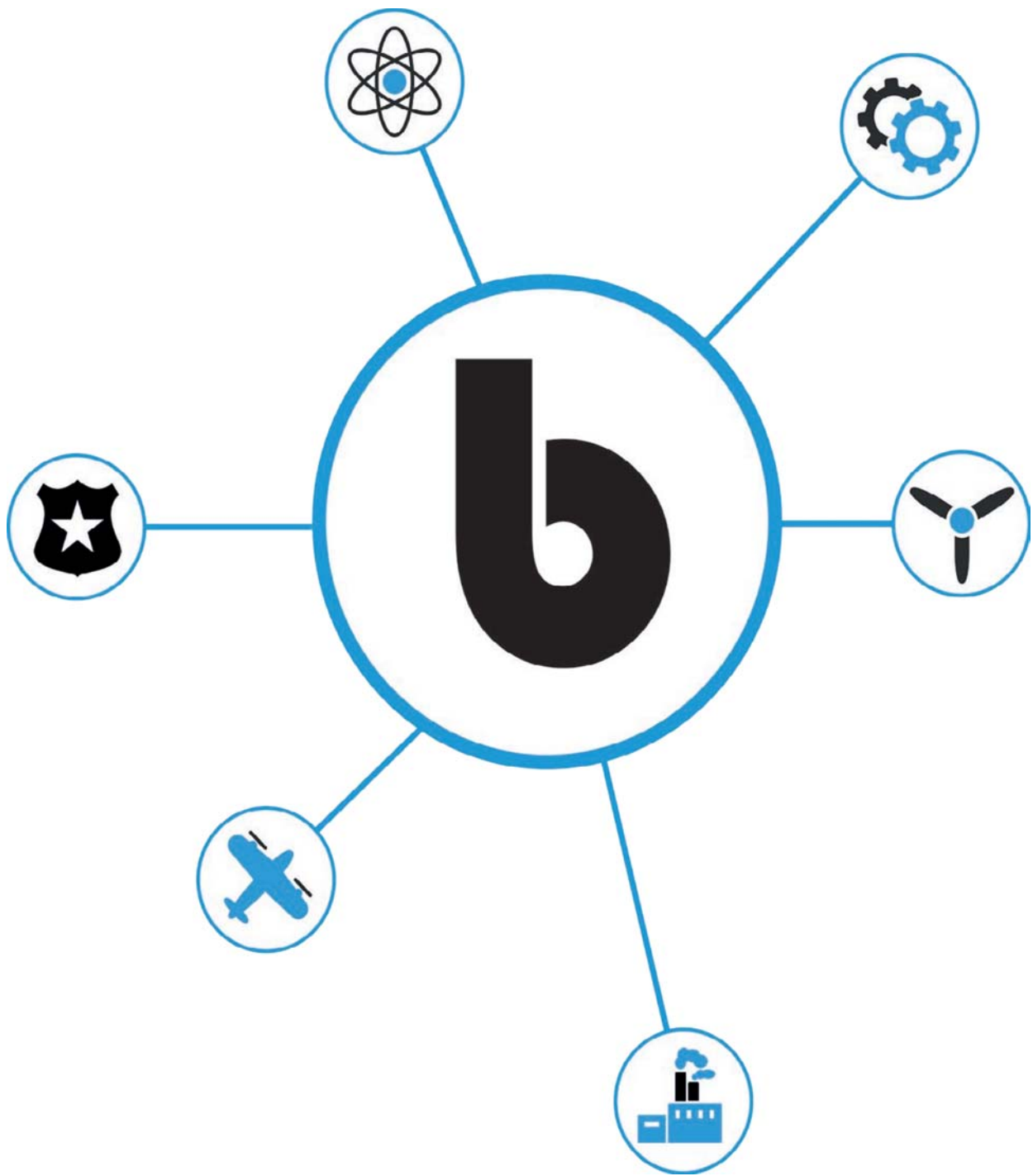
Waterproof, oil and anti corrosion resistant.

### Adapted to harsh environments

The sapphire glass reduces greatly the risk of scratches on objective. This offering longer life of the videoscope. Probes are IP67 rated (IP57 for 90° probes)



See the Invisible



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