

iPLORE+



FROM Ø 2.4 MM TO 6 M PROBE LENGTH

A close-up photograph of the control panel of a videoscope. The device is light grey with a central LCD screen. To the left of the screen is a white label with the brand name 'IPLORE+' in red and black. Below the screen is a large, circular, silver-colored dial with a 'LOCK' label. To the right of the dial are several black buttons with white icons. The background is a plain, light-colored surface.

IPLORE+

5 INCH LCD SCREEN

See the inside of your application directly on our LCD screen with a resolution of 1200 x 720 pixels. Start the menu and edit settings via direct access buttons.

DIRECT ACCESS BUTTONS

Change lightning and zoom factor, store photo and video files or edit the basic settings via direct access buttons.

KEY FEATURES OF THE VIDEOSCOPE

MULTIPLE CONNECTIONS

Several video outputs:

- ⌘ Digital HDMI
- ⌘ Composite analog
- ⌘ Mini USB 2.0

Photo / video storage:

- ⌘ SD card up to 32 GB

PRECISE AND SENSITIVE JOYSTICK

The joystick is ergonomically placed within the reach of your thumb, no matter which hand you are using to operate the videoscope.

INTERCHANGEABLE PROBES

Changing probes has never been easier: insert the probe you want to use into the hole on the back of the base unit and turn it clockwise. Turn it counterclockwise to remove it. It's as simple as that !

iPLORE+



GAIN IN PERFORMANCE...

A SENSITIVE ARTICULATION

The ultra-sensitive mechanical articulation of the probe allows you to move the probe tip in any direction so that no detail is missed during your visual inspection. The videoscope is designed so that the joystick is always within the reach of your thumb. This way, you can use the videoscope for a long time without getting tired.

ESSENTIAL FUNCTIONS

During an endoscopic check, good illumination is essential. But it is just as important to be able to adjust the lighting to the situation in order not to miss any detail. The high definition and the white balance provide an authentically rendered inspection image and allow you to save high quality photo and video files. In addition, a special feature allows you to superimpose a test pattern on your live image which enables you to easier detect defects or foreign objects in your application.

... AND IN ERGONOMICS!

IMPROVED ERGONOMICS

During visual inspections, inspecting engineers have to face different kinds of obstacles: uncomfortable position, insufficient illumination, occupied hands, etc. This is why we want to offer you a videoscope that will improve your working conditions. Thanks to the LED on the back of the iPLORE + endoscope you can illuminate your application. Furthermore, you can put the videoscope on the base or attach it to the shoulder strap, so that your hands are free and you can work in a more comfortable position.

CHANGE YOUR PROBE IN NO TIME

Thanks to the uncomplicated connection system of the iPLORE +, changing probes is easier than ever. We offer a range of video probes with different diameters and lengths that are perfectly suited to non-destructive testing in the aeronautics, automotive, wind and foundry sectors. In addition, the standardized light system allows you to easily detect defects and foreign objects.





HIGH QUALITY COMPONENTS

THE IMPORTANCE OF MATERIALS

In order to achieve a long lifetime of your video probe, it is very important for us that only top quality material is used. That's why the main materials used for the iPLORE+ probes are the following :

- ⌘ an ultra-resistant titanium* alloy head
- ⌘ a distal sapphire cover glass that will prevent micro scratches
- ⌘ a tungsten* probe sheath that provides unmatched abrasion resistance

**For probes above Ø 3.9mm*



A RESISTANT PROBE

ONE OF THE SMALLEST ARTICULABLE VIDEOSCOPIES IN THE WORLD

OUTSTANDING ARTICULATION

Our thinnest probe has a diameter of 2.4 mm. This probe has been specially developed to respond to extreme inspections. Now you are able to inspect areas that have so far been inaccessible due to their small size.

Beside the often used 6 mm HD probe, it is also useful to have a very small diameter articulations probe in order to quickly inspect smaller applications.



A Ø 6 MM PROBE WITH A 1 MEGAPIXEL RESOLUTION

THE IMPORTANCE OF IMAGE RESOLUTION

The widest probe in the iPLORE+ range will offer you exceptional image quality thanks to its high definition resolution of 1 million pixels. It is always very useful to have a probe with a very high resolution like this for inspections that require a very clear image.

INTERCHANGE YOUR PROBES

DIFFERENT PROBE SIZES

FOR ALL TYPES OF APPLICATIONS

We know that applications always differ in their size, their depth or even their geometry, this is why we offer several probes.

Concerning the diameters, we have probes of \emptyset :

- 2.4 mm
- 3.9 mm
- 6.4 mm
- 8.4 mm

and regarding the lengths we can provide you with :

- 1.5 m
- 2.0 m
- 3.5 m
- 6.0 m

☎ Please contact us for any others lengths.



VERY COST-SAVING SOLUTION

ONE BASE UNIT - SEVERAL PROBES

Videoscopes with interchangeable probes are by definition the most economical solution for inspections that require different video probes. Indeed, purchasing an additional probe to your existing iPLORE+ video scope will save you up to 40%.

PERFECTLY ADAPTED TRANSPORT CASE

EASY TRANSPORT AND STORAGE

There is a slot for each element integrated into this robust tailor-made transport case which was specially designed for the iPLORE+ with its interchangeable probes. Ultra light and compact, the suitcase is resistant and optimized for transport and storage. You will find a space for:

- Control handle
- Two interchangeable probes
- Endoscope stand
- Storage for up to two batteries
- Power supply
- Cleaning kit
- Manual
- 32 GB SD card



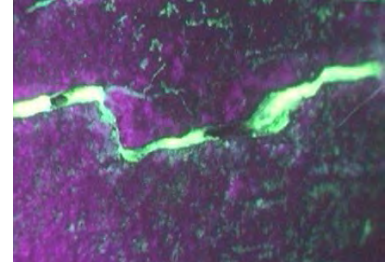
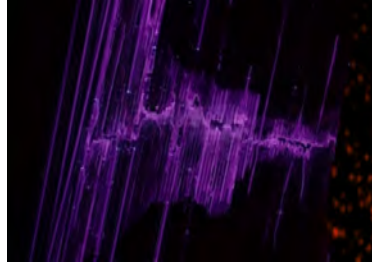
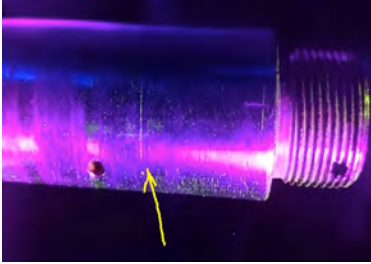
GREAT AUTONOMY

Mobility is a very important factor in visual inspection, but in order to achieve it you need a very enduring videoscope. Thanks to its powerful batteries, it is possible to inspect more than 4 hours without the need of an additional power supply. This makes the iPLORE+ a real pioneer of video endoscopes.

A WIDE RANGE OF SOLUTIONS

PROBES WITH UV TECHNOLOGY

DYE PENETRANT INSPECTION



In non-destructive testing, fluorescence makes it possible to observe the surface to be inspected. Ultraviolet light reveals micro-defects that are not visible to the naked eye such as micro-cracks (cracks) in an aircraft engine. Penetrant testing allows fluorescence to be used over large areas to be inspected over a wavelength of 365 nm ideal for large cylinders, landing gear components and many other applications. Our UV probes are ideal for controlling all types of turbine blades, aircraft engines, aircraft control, piping, combustion chambers and can also be perfectly used in more military-oriented applications.

PROBES WITH INFRARED TECHNOLOGY

INFRARED INSPECTION



Our interchangeable infrared probes are specially designed to see without being seen. Security Forces such as the police, the military and building security. The latter may have to use these probes to detect the presence of intruders on a site. Police generally use these types of products to inspect boxes that they suspect may be used as a benchmark to hide illicit things. In fact, they can therefore control the interior of these boxes in order to look at cars, serial numbers, dangerous objects and many other things objectionable by law.

TECHNICAL DATA

iPLORE+



PROBE	PROBE 2.4	PROBE 3.9	PROBE 6.4	PROBE 8.4
CAMERA				
Diameter in mm	2.4	3.9	6.4	8.4
Image sensor	CMOS 1/18	CMOS 1/9	CMOS 1/6	CMOS 1/6
Pixels	160 000 px	1 million px (720p)	1 million px (720p)	1 million px (720p)
Field of view (FOV)	> 120°	> 120°	> 120°	> 120°
Direction of view (DOV)	0°	0° 90° (Ø 4 mm)	0° 90° Dual sensor: 0° & 90°	0°
Depth of Field (DOF)	5 mm - 30 mm	8 mm - 80 mm	8 mm - 80 mm	8 mm - 80 mm
Illumination brightness	5000 lux	18 000 lux	50 000 lux	70 000 lux
PROBE				
Material of the probe	Stainless steel head and probe sheath	Titanium alloy head Flexible tungsten sheath		
Diameter in mm	2.4	3.9	6.4	8.4
Length	1.5	2 3.5	2 3.5	2 3.5 6
Articulation	manual joystick 2-axes	manual joystick 4-axes		
Watertightness	IP 64	IP 67 IP 64 at 90°	IP 67 IP 64 at 90° and dual sensor	IP 67
HANDLE				
Weight in kg	1.07			
Screen size	5"			
Resolution	1200 * 720			
Interchangeability	Yes			
Connections	HDMI Mini USB NTSC			
FEATURES				
Image processing	White balance (auto / manual), contrast, image rotation, test pattern, text input, rename or delete photos, zoom, etc.			
Memory	On 32 GB SD card			
Photo / video format	JPEG 1024*768 (4:3) / 1200*720 (16:9) MOV 1200*720 (4:3) / 920*720 (16:9)			
Battery life	> 4 hours			
Loading time	≈ 5 hours			
Operating temperature	-10°C to +50°C			
Live transfert	Live display on external tablet of smartphone (Android or iOS via WiFi)			
Transfert	Via SD card supplied on delivery or via MiniUSB			

WARNING ! Do not use for medical purposes. Never use near electrical installations or in hazardous or explosive environments. AMERICAN or EUROPEAN patents can apply to all products.

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FURTHER
INFORMATION

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