

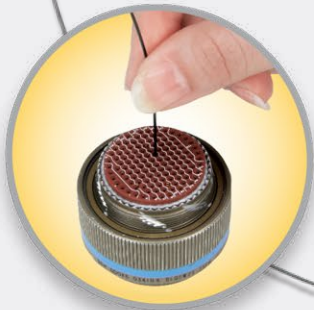
**Microflex PRO flexible**

**Quickly and easily inspect cooling holes inside turbine blades, cannulas, catheters, needles, trocars, valves in medical devices, and many other micro manufactured parts. Use it with our Endo-Lux-T light (80 Watts) source for optimal results.**

Our Microflex range offers a resolution range of 3,000 to 50,000, depending on the diameters, allowing excellent quality of vision.

As standard, we deliver models with a standard detachable 32mm ISO eyepiece with adjustable focus and optionally, 1 C-Mount ring, allowing a direct C-mount camera connection.

We can also study specific models according to your applications.



Standard Line

Detachable ocular with adjustable focusing



Adjustable focusing by ring

Description	Diameter	Working length	Amount of pixels	Field of view	Direction of vision	Depth of field	Bending radius	Tube construction	Working temperatures
<b>MF-037-20</b>	0.37 mm	200 mm	<b>3 000</b>	55°	0°	3 - 25 mm	25 mm	Polyamide	0 - 65°C
<b>MF-037-100</b>	0.37 mm	1000 mm	<b>3 000</b>	55°	0°	3 - 25 mm	25 mm	Polyamide	0 - 65°C
<b>MF-05-60</b>	0.50 mm	600 mm	<b>3 500</b>	55°	0°	3 - 25 mm	25 mm	Polyamide	0 - 65°C
<b>MF-05-100</b>	0.50 mm	1000 mm	<b>3 500</b>	55°	0°	3 - 25 mm	25 mm	Polyamide	0 - 65°C
<b>MF-10-100</b>	1.00 mm	1000 mm	<b>10 000</b>	55°	0°	3 - 25 mm	25 mm	Polyamide	0 - 65°C
<b>MF-10-150</b>	1.00 mm	1500 mm	<b>10 000</b>	55°	0°	3 - 25 mm	25 mm	Polyamide	0 - 65°C
<b>MF-10-200</b>	1.00 mm	2 000 mm	<b>10 000</b>	55°	0°	3 - 25 mm	25 mm	Polyamide	0 - 65°C
<b>MF-12-80</b>	1.20 mm	800 mm	<b>30 000</b>	55°	0°	3 - 25 mm	25 mm	Polyamide	0 - 65°C
<b>MF-12-120</b>	1.20 mm	1200 mm	<b>30 000</b>	55°	0°	3 - 25 mm	25 mm	Polyamide	0 - 65°C
<b>MF-20-100</b>	2.00 mm	1000 mm	<b>50 000</b>	55°	0°	3 - 25 mm	25 mm	Polyamide	0 - 65°C

To order

Part No	Description
MF-037-20	Microflex flexible Ø 0,37 mm x 200 mm - 0°
MF-037-100	Microflex flexible Ø 0,37 mm x 1.000 mm - 0°
MF-05-60	Microflex flexible Ø 0,5mm x 600 mm - 0°
MF-05-100	Microflex flexible Ø 0,5mm x 1.000 mm - 0°
MF-10-100	Microflex flexible Ø 1,0mm x 1.000 mm - 0°
MF-10-150	Microflex flexible Ø 1,0mm x 1.500 mm - 0°
MF-10-200	Microflex flexible Ø 1,0mm x 2.000 mm - 0°
MF-12-80	Microflex flexible Ø 1,2mm x 800 mm - 0°
MF-12-120	Microflex flexible Ø 1,2mm x 1.200 mm - 0°
MF-20-100	Microflex flexible Ø 2,0mm x 1.000 mm - 0°
MF-VAL	Waterproof case for microflex



MF-37-20 shown with P1 monitor, FV35HQ camera & LED handle LED-RA



We offer on demand Microflex semi rigid with DoV 0° & 90°. Contact us for further details



## LED-R BIPOL light handle

Portable high intensity source with white LED lamp. LED life is approximately 50,000 hours under normal use. Supplied with its charger with battery level indicator and rechargeable. Li-ion battery (approximately 500 charge cycles).

### Technical data

LED output	10 Watts (80,000 lux)
Intensity adjustment	Adjustable to 5 levels
Dimensions	Ø 24 mm x 140 mm
Weight with battery	130 gr
Battery	Li-Ion 2400 mAh 3.7V - type 18650
Average runtime	3-4 hours
Durée de vie LED	50 000 heures

### To order

Part No	Description
LED-R	Bipol LED-R battery handle with rechargeable battery
LED-R-BAT	Spare battery LED-R
LED-R-BAT-CH	LED-R Spare battery charger



## Mini LED light handle

Portable light source with ACMI connection and LED light. 2 AA batteries (supplied). Adjustable illumination.

### Technical data

Illumination	10,000 to 55,000 lux (Min-max)
Dimensions	Ø 25 mm x 170 mm
Weight with batteries	120 gr
Average runtime	2-7 hours depending on the use

### To order

Part No	Description
605 000 565	Mini LED light handle with 2 AA batteries



## LED-RA rechargeable light handle

Ultra-high-performance portable source with white LED lamp and continuously adjustable lighting. Bulb life is 50,000 hours. Rechargeable battery and wall/table support included. Compatible with portable video applications.

### Technical data

Illumination	15,000 to 180,000 lux (Min-max)
Dimensions	Ø 31mm x 150mm
Weight with batteries	148 gr
Battery	Rechargeable 3.7V, 220mAh Li-Ion
Average runtime	2-7 hours depending on the use

### To order

Part No	Description
605 000 570	Rechargeable RA LED handle & adjustable lighting. Comes with charging wall bracket.
605 000 571	Original streamlight battery for LED-RA



## Endolux T LED table lightsource



Our Endo-lux T is a compact and powerful (80 watts) table light source with LED technology.

It comes with a continuous light adjustment (20 levels) and a standard RIWO output. It is compatible with video and photo applications and can be connected to our rigid endoscopes, fiberscopes.

### Technical data

LED output	80 Watts
Illumination	800,000 lux
Light intensity	20 levels adjustable
Color temperature	5,000 - 7,000 k
Cable connection	RIWO
Power	110V-220V / 50 Hz-60Hz
Dimensions	355x315x120mm
Weight	5,2 kgs (11,46 lbs)
LED Lamp runtime	50,000 hours

### To order

Part No	Description
Endo-Lux-T	Bipol table light source Endo-lux T - 80 Watts - RIWO - bi tension 110/220 VA
Endo-Lux-C	Light cable SUPERFLEX Ø 4 x 1900mm Steel sheathing with outer PVC sheathing connection RIWO-STORZ/ACMI.
614 000 056	Y adapter for 2 cables

### Main features:

- High intensity low consumption LED
- Integrated memory function.
- Sleep modus.
- Light intensity adjustable on 20 levels



Light cable  
Endo-Lux-C

Y adapter (for 2 cables or 1 cable  
and 1 probe)



## High resolution USB-HDM camera

High resolution compact video camera (2304x1536 px) specially developed for video endoscopy uses.

The camera can be used with any laptop that has a USB port.  
The supplied visualization software is very easy to use and has many adjustable parameters.

Equipped with a 1/3" sensor and an automatic electronic shutter, it allows the inspection of places with changing light.

The camera has a dedicated HDMI output to be connected to an industrial monitor (cable supplied).  
In this configuration, the camera is powered on mains.



Technical data	
CCD sensor	1/3.2" 3MP couleur CMOS
Resolution	2304 x 1536 px
White balance	Automatic
Signal Vidéo/Sortie	USB 3.0 / HDMI
Frame rate	HDMI: 1080i 60fps USB: 720p 30fps
HDMI recording	8GB Micro SD card
Power	USB charger - 5V (for HDMI connection) USB use: self-powered
Connection	C-Mount
Dimensions	Ø40 mm x 100 mm
Weight	75 gr
Working temperature	+4°C to + 50°C



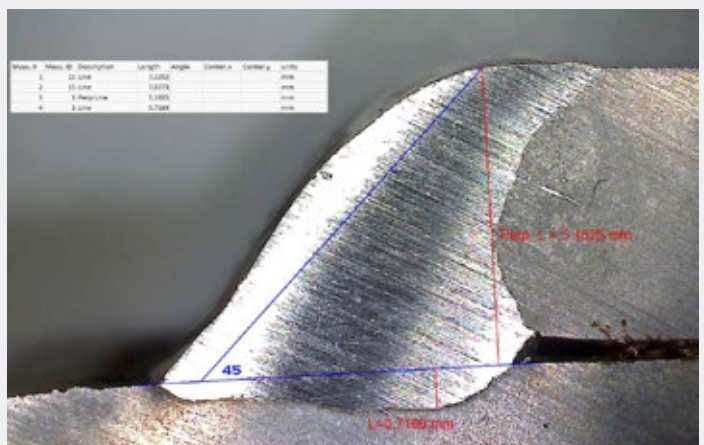
Supplied with USB cable / HDMI cable / 8GB Micro SD card and dedicated image processing software (photo & video recording, digital zoom, measurement grid, image annotation)

### To order

Part No	Description
618 000 175	3MP USB-HDMI Bipol camera with F:35 video coupler
618 000 102	C-Mount video coupler with adjustable focus

## Measurements function

The Pro version of the software has a wide range of measurements available including distance, angle, radius, pixel color and relational measurement – such as the distance between circles or the distance from the center of a circle to the midpoint of a line. The Pro version also allows export to an EXCEL spreadsheet.



### BIPOL Video Coupler

Our video coupler connects an endoscope to a C-Mount CCD camera to view live images on a monitor. It offers an extra wide field of vision. Compatible with all our CCD cameras.

Part No	Description
618 000 102	C-Mount video coupler with adjustable focus



### Articulating holder Magic arm

Articulated holder with central locking lever to be mounted on a bench thanks to its clamp. Compatible with Rugged & P1 videoscopes.

Part No	Description
618 000 106	Magic arm articulated holder with clamp
618 000 111	Additional clamp (for videoscope holder)



### Industrial video monitor 19"

Our professional industrial video monitors have been specially developed to meet the needs of video control in technical endoscopy and fibroscopy. Excellent contrast and high definition (1280x1024 pixels) will allow you to view on screen the interior of your parts in a great comfort of use without visual fatigue. Numerous inputs allow you to connect a variety of devices to these monitors. In addition to two BNC ports, you also have a VGA input and an HDMI input.

Part No	Description
619 000 012	19" video monitor



### Storage cases

PI-VID. Carrying case specially designed to allow easy and safe transport of our cameras and accessories. Accepts as standard our 3 different video cameras, the LED-R portable lighting stick as well as a P1 or Rugged monitor.

VAL-RIG2X. Aluminum case with footprints for 2 endoscopes (up to 435 mm) & LED-R light source.

Part No	Description
VAL-RIG2X	Aluminum case with footprint for 2 rigid endoscopes (max length 435mm) & portable LED-R source.
P1-VID	Video carrying case with foam.

