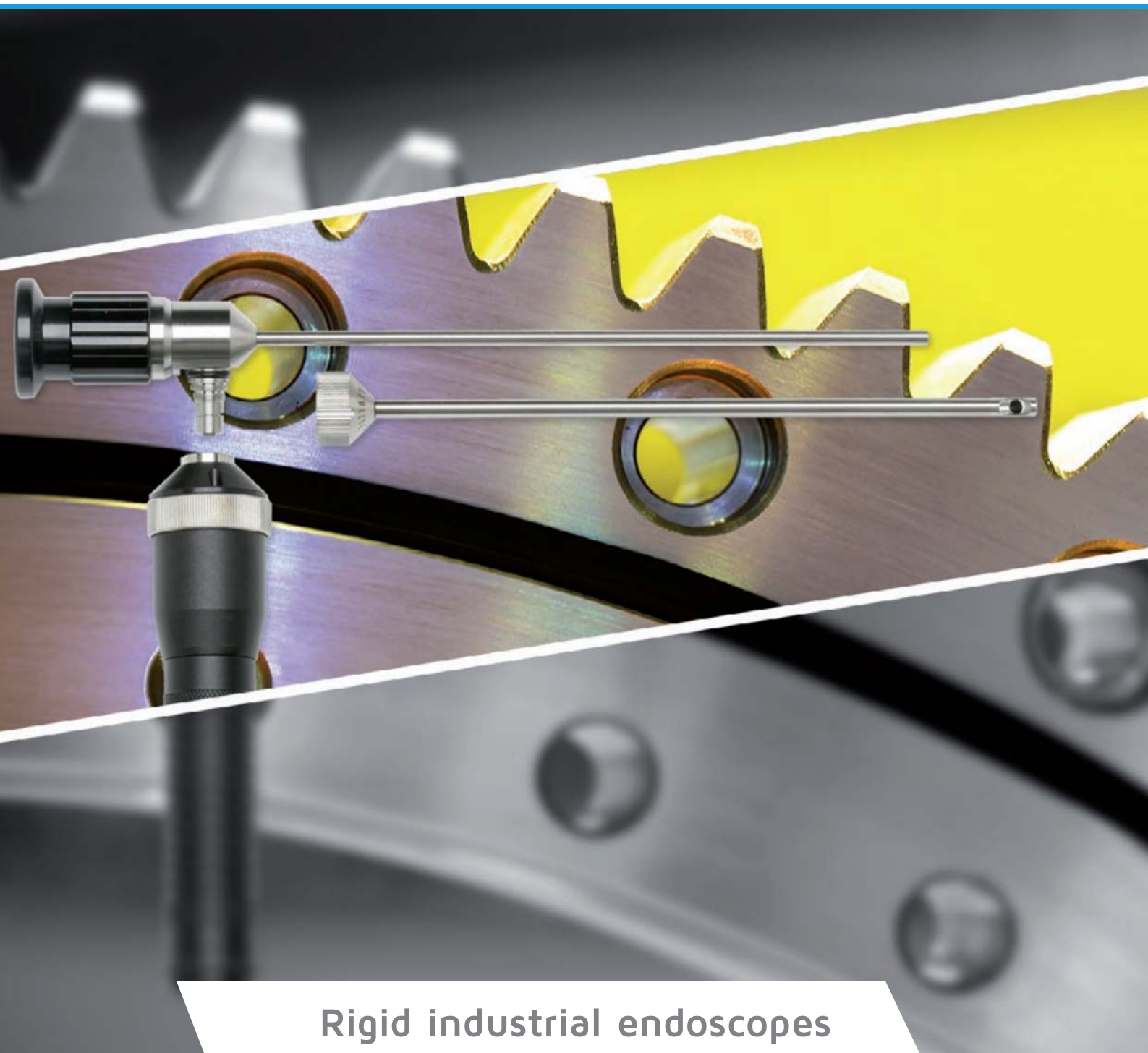


bipol[®]

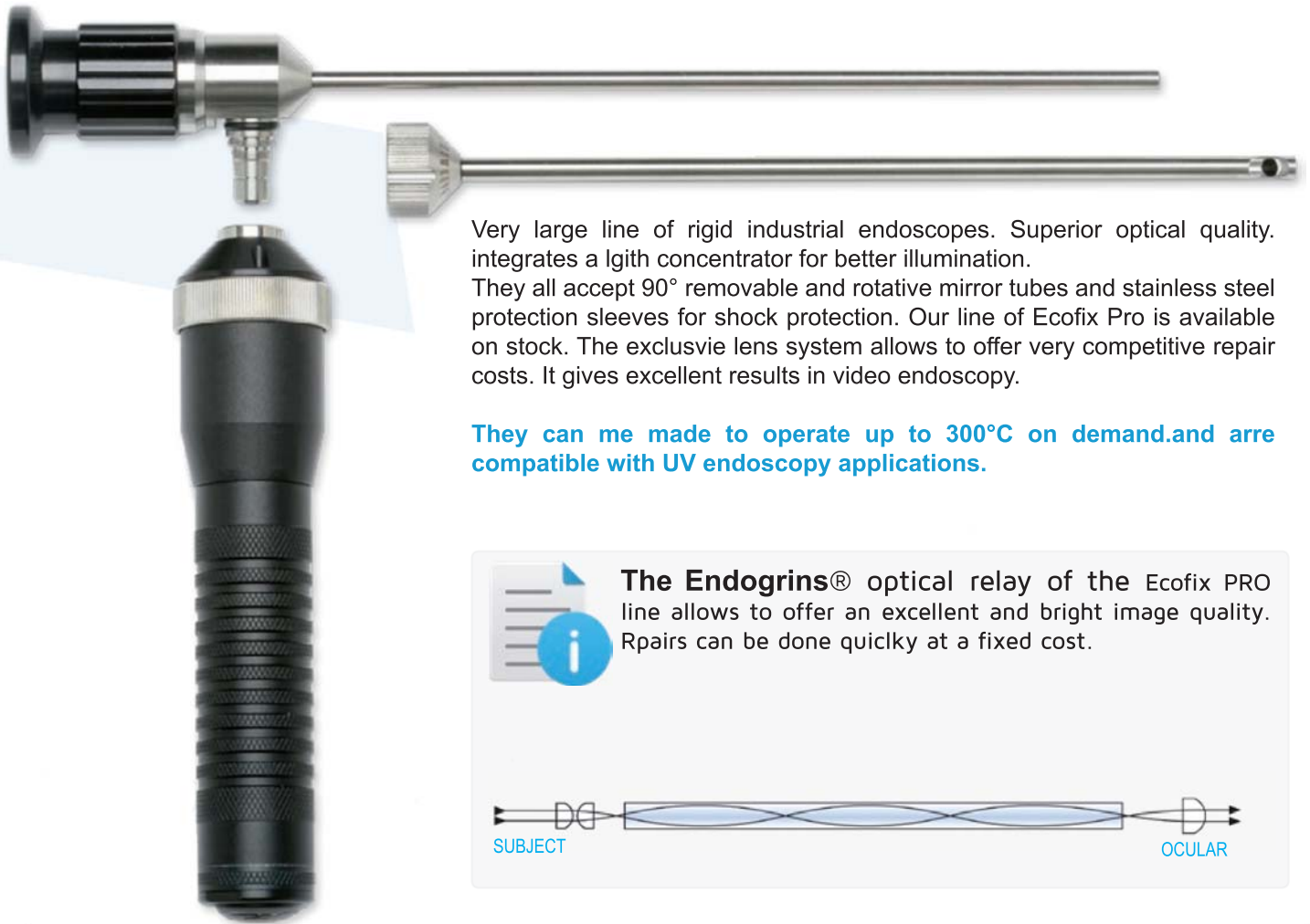
Instruments & Outils de **précision**



Rigid industrial endoscopes
ECOFIX PRO

www.bipol.fr

Rigid Ecofix PRO endoscopes



Very large line of rigid industrial endoscopes. Superior optical quality. integrates a light concentrator for better illumination. They all accept 90° removable and rotative mirror tubes and stainless steel protection sleeves for shock protection. Our line of Ecofix Pro is available on stock. The exclusive lens system allows to offer very competitive repair costs. It gives excellent results in video endoscopy.

They can be made to operate up to 300°C on demand and are compatible with UV endoscopy applications.



The Endogrins® optical relay of the Ecofix PRO line allows to offer an excellent and bright image quality. Repairs can be done quickly at a fixed cost.



Aviation



Fundry



Automotive



Fine mechanics



independent focussing ring

high performance lens system

90° rotative mirror tube

light concentrator

high intensity led portable handle 110.000 Lux (option)

Compatible with UV endoscopy



Rigid Ecofix PRO endoscopes



ENDOSCOPES ECOFIX PRO				
Part No	Diameter mm	WL mm	Dov	Field
Ø 1.85mm				
604 000 100	1.85	80	0°	40°
604 000 268	1.85	127	0°	40°
604 000 290	1.85	180	0°	40°
Ø 2.40 / 2.80 mm				
604 000 500	2.40	100	0°	40°
604 000 501	2.40	185	0°	40°
604 000 510	2.80	265	0°	40°
604 000 515	2.80	350	0°	40°
604 000 520	2.80	435	0°	40°
Ø 4.20 mm				
604 000 490	4.20	50	0°	40°
604 000 502	4.20	180	0°	40°
604 000 503	4.20	305	0°	40°
604 000 504	4.20	435	0°	40°
604 000 505	4.20	560	0°	40°
Ø 6.35 / 7.20 mm				
604 000 506	6.35	180	0°	40°
604 000 507	6.35	305	0°	40°
604 000 540	6.35	435	0°	40°
604 000 541	6.35	559	0°	40°
604 000 542	7.20	730	0°	40°
604 000 543	7.20	940	0°	40°



TUBES MIROIRS & GAINES INOX			
Part No	Diameter	WL mm	Dov
Mirror tube for Ecofix Ø 1.85mm			
604 000 101	2.2	80	90°
604 000 268	2.2	127	90°
604 000 290	2.2	180	90°
Mirror tube for Ecofix Ø 2.4-2.8mm			
604 000 112	2.8	100	90°
604 000 113	2.8	185	90°
604 000 525	3.4	265	90°
604 000 530	3.4	350	90°
604 000 535	3.4	435	90°
Mirror tube for Ecofix Ø 4.2 mm			
604 000 491	4.8	50	90°
604 000 123	4.8	180	90°
604 000 124	4.8	305	90°
604 000 125	4.8	435	90°
604 000 272	4.8	560	90°
Mirror tube for Ecofix Ø 6.35-7.20 mm			
604 000 545	8.0	180	90°
604 000 546	8.0	305	90°
604 000 547	8.0	435	90°
604 000 548	8.0	559	90°
604 000 549	8.0	730	90°
604 000 550	8.0	940	90°
Stainless steel sheath Ecofix Ø 1.85mm			
604 000 267	2.2	80	-
604 000 270	2.2	127	-
604 000 292	2.2	180	-
Stainless steel sheath Ecofix Ø 2.4-2.8mm			
604 000 220	2.8	100	-
604 000 221	2.8	185	-
604 000 526	3.4	265	-
604 000 531	3.4	350	-
604 000 536	3.4	435	-
Stainless steel sheath Ecofix Ø 4.2 mm			
604 000 492	4.8	50	-
604 000 264	4.8	180	-
604 000 265	4.8	305	-
604 000 266	4.8	435	-
604 000 273	4.8	560	-

Part No	Description
604 000 214	Ecofix aluminium case (for endoscope up to 435 mm)
604 000 217	Ecofix PRO aluminium case (for endoscope up to 560 mm)
B-C-KIT	BIPOL cleaning kit: 1 spray - 1 packs of cotton swabs
604 000 208	Right angle adapter 90° rotatable L=100mm

Portable light solutions

Mini Xenon light handle

Adjustable illumination

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

Technical data

Illumination	14 000 lux max
Dimensions	Ø 25 mm x 146 mm
Weight with batteries	145 gr
Autonomie moyenne	5 Heures

To order

Part No	Description
604 000 200	Mini Xenon light handle with 2 AA batteries
604 000 201	Spare light bulb (x6)



Mini LED light handle

Adjustable illumination

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

Technical data

Illumination	10 000 à 55 000 lux (Min-max)
Dimensions	Ø 25 mm x 170 mm
Weight with batteries	120 gr
Autonomie moyenne	Entre 2 et 7h suivant mode d'utilisation

To order

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



LED-RA portable light source

Rechargeable with light intensity adjustment

Our LED RA portable light source uses the LED technology and delivers a high intensity white light ideal for endoscopic applications in industrial or medical sectors. It offers a continuous light intensity adjustment for optimal comfort of use in any situation.

Technical data

Illumination	15 000-180 000 lux (Min-max)
Dimensions	Ø 31mm x 150mm
Weight with batteries	148 gr
Battery	Rechargeable 3.7V, 220mAh Li-Ion
Average runtime	Entre 2 et 7h suivant mode d'utilisation

To order

Part No	Description
605 000 570	LED RA light handle. Delivered with wall charger



Workbench light solutions

Endo-Lux LED table light source

LED lamp

Our **Endo-lux** LED is a compact and powerful (50 watts) table light source with LED technology. It comes with a continuous light adjustment and a standard RIWO output. It is compatible with video and photo applications and can be connected to our rigid endoscopes, fiberscopes or Micro videoscopes **MV-SCOPE**

Technical data

LED output	50 Watts
Illumination	300.000 lux
Color temperature	6000 k
Connexion	RIWO
Power	110V-220V / 50 Hz-60Hz
Dimensions	150×200×120 mm
Weight	2 kgs
LED Lamp runtime	50 000 hours

Part No	Description
Endo-Lux	Table light source bipol Endo-lux LED - 50 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/ACM



Mini table light source ARC35 LED

Adjustable lighting



Compact mini table light source

Never change light bulb again. The mini table light source ARC35 LED delivers a high intensity white light using the latest LED technology which offers a lamp runtime of over 50.000 hours. These new lamps allow a precise control of illumination with an excellent color rendering to answer specific needs of rigid endoscopic inspections. Its 12V power and compact format allow it to be used in a portable version (with battery pack) to use in outdoor inspections.

Technical data

Colour temperature	5700 K - 6500 K Nominal
Illumination	250 000 lux max
Dimensions	127 x 90 x 68 mm
Power	12 V/DC
Weight	0.45 kg (1.0 lbs)
Working temperatures	5° C to 40° C
LED runtime	50.000 ours

To order

Part No	Description
604 000 204	ARC 35 LED mini light source
604 000 206	Portable battery kit ARC24 (Battery / Pouch / connecting cables)

See the Invisible

Video accessories

CCD BLOC camera BIPOL

BL-12V

Compact CCD Bloc camera with high resolution specially developed for use with endoscopes or Fiberscopes. Supplied with a 1/3" SONY EX VIEW, it allows inspection of areas with changing light. Very light (80 gr) and compact, it is the ideal small camera for workshop or R&D applications. The C-CS connection of the camera accepts a video coupler sold separately.

Our BL-12V camera gives excellent results with our line of rigid endoscopes ECOFIX PRO & Micro endoscope SV.

Power supply sold separately.

Technical data

CCD Sensor	1/3" SONY EX-VIEW CCD
Resolution	700 TVL
Minimal illumination	0.05 lux at F1.2
White balance	Automatic
Video signal	PAL / NTSC
Power	12 DVC
Thread	C-Mount
Dimensions	43 mm x 43 mm x 60 mm
Weight	80 gr
Working temperatures	-10°C to + 50°C

To order

Part No	Description
BL-12V	Endocamera BIPOL BL-12V - Cmount with power 220 Va
BL-12V-AL	Power supply for camera BL-12V & FV 35 HQ
BL-12V-CRP1	Connecting cable for video units P1 & Rugged

Video couplers

F:35 & F:75 mm

Our Video Couplers connect your borescope to video cameras for live video inspection and documentation. They deliver a full field-of-view and are available in either 35mm or 75mm focal lengths.

Description	Focussing	Mounting	Part No
Coupleur F : 35 mm	Variable	C-Mount/ISO 32 mm	618 000 102
Coupleur F : 75 mm	Fixed	C-Mount/ISO 32 mm	604 000 211



CCD BIPOL Endocamera

FV 35 HQ

Compact video camera specially developed for use in video endoscopy. The HQ version is recommended for use with screen of 7" and more.

Includes an automatic electronic shutter for inspection of areas with changing light conditions. Very light (160 gr) and with shockproof body, they are particularly suited for workshop inspections.

Associated with the F:35 video coupler, it can be used with any ISO 32mm endoscope or fiberscope ocular.

The camera can be used and connected directly to our videoscopes Rugged and P1 or to a external video monitor.

It is the ideal visualization tool for on site, R&D, workshop video inspections with endoscopes.

Dust proof and shock resistant



Technical data

CCD sensor	1/2" SONY
Resolution	800 TVL
White balance	Automatique
Video signal	PAL / NTSC
Power	12 DVC -unique cable
Connection	Integrated Video coupler
Dimensions	Ø 50 mm x 90 mm
Weight	160 gr
Working temperatures	0°C to + 40°C

To order

Part No	Description
618 000 183	BIPOL endocamera FV35 HQ (with video coupler F:35) - AVDC
618 000 185	BIPOL endocamera FV35 HQ alone - AVDC
BL-12V-AL	Power supply for BL-12V & FV35 HQ
BL-12V-CRP1	Adapting cable for Videoscopes Rugged or P1



Videoscope P1

7"



3.5"



Videoscope Rugged

USB3-HR camera

USB connection

USB high resolution CCD camera specially designed to work with rigid endoscopes. Due to high sensor resolution, magnification of the image is possible. Delivered with software including many features.



Technical data

CCD sensor	1/1.8"
Resolution	1280x1024 pixels
Connection	C-Mount
Frame rate	60 fps
Pixel size	16 μm w 11.6s
Power	USB 3.0 port
Dimensions	31 x 45 x 50mm
Weight	160 gr
Working temperatures	0°C to + 40°C

To order

Part No	Description
618 000 190	BIPOL CCD camera USB3-HR
618 000 191	18-35mm variable focusing coupler USB3-HR





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