



Optical endoscopy



Standard borescopes
Swing prism borescopes
Microborescopes



Standard fiberscopes
Microfiberprobes



Fiberprobes



Videoendoscopy systems
Video couplers



Light sources
Lighting accessories



STANDARD SIRIUS BORESCOPIES

- 4, 6, 8, 10 and 12 mm diameters
- Axial or deviated (45°, 90° or 110°) viewing
- 370° orbital scan on deviated viewing models
- Full-metal handle
- 32 mm diameter standard eyepiece
- Removable connectors for compatibility with other brands of light cables
- Focus adjustment
- Multilayer coated optical components
- Optical systems optimized for each instrument diameter

FEATURES

Vocation : Industrial Endoscopy

Color coded Direction of view : 0° Direct (blue) - 45° Fore-oblique (green) - 90° Lateral (red) - 110° Retrograde (yellow)

Focusing ring

Viewing orientation touch indicator

Viewing orientation index in the image

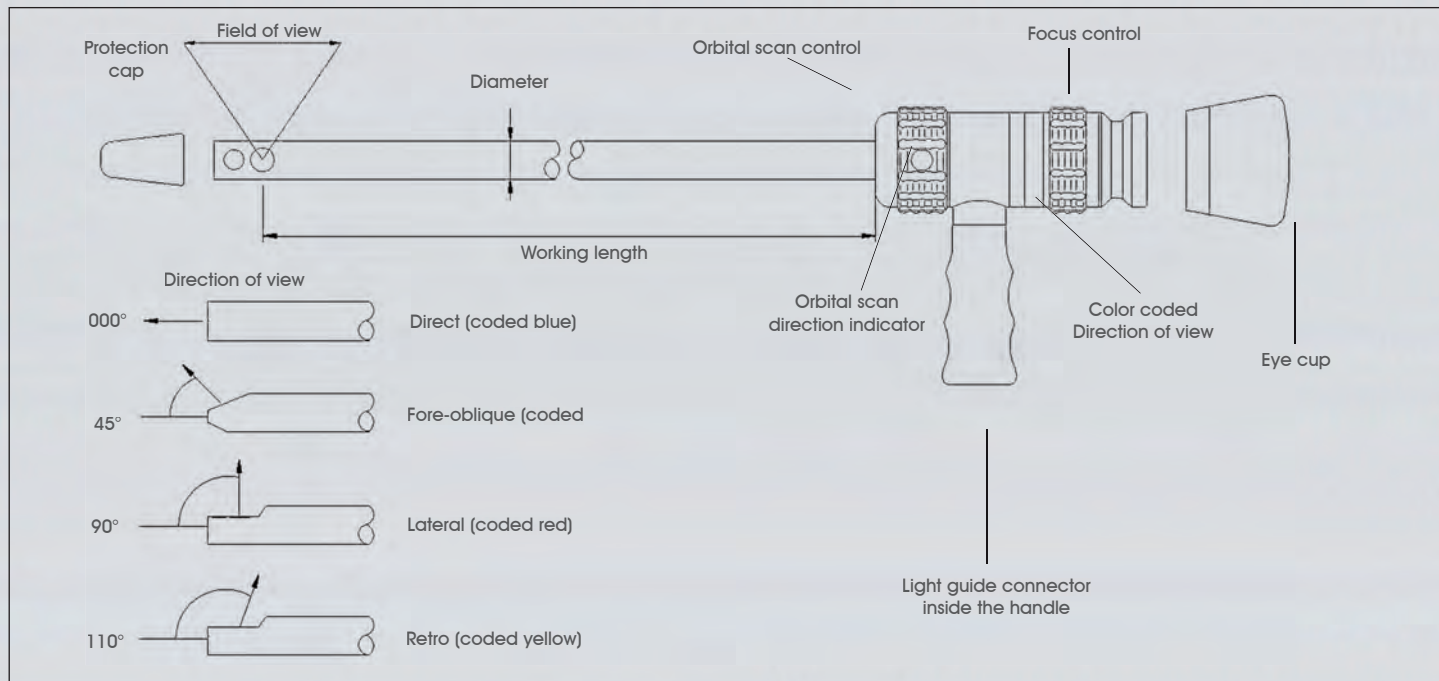
PVC case

STANDARD SIRIUS BORESCOPIES

TS - 080 - 090 - 55 - 044 - QR+

SIRIUS Borescopes	Diameter Ex. : 8 mm	Direction of view Ex. : 90°	Field of view Ex. : 55°	Working length Ex. : 44 cm	Type Ex. : Orbital scan
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TS-040-000-55-020-FR TS-040-090-55-020-QR+ (1) TS-040-000-40-020-FR TS-040-000-55-029-FR TS-040-045-55-029-QR+ TS-040-090-55-029-QR+ (2) TS-040-000-40-029-FR TS-060-000-55-031-FR TS-060-045-55-031-QR+ TS-060-090-55-031-QR+ TS-060-000-55-047-FR TS-060-045-55-047-QR+ TS-060-090-55-047-QR+ TS-060-110-55-047-QR+ TS-060-090-35-048-QR+	(3) TS-060-000-40-056-FR TS-060-000-55-062-FR TS-060-045-55-062-QR+ TS-060-090-55-062-QR+ TS-080-090-55-025-QR+ TS-080-110-55-025-QR+ TS-080-000-55-035-FR TS-080-045-55-035-QR+ TS-080-090-55-035-QR+ (4) TS-080-000-40-035-FR TS-080-000-55-044-FR TS-080-045-55-044-QR+ TS-080-090-55-044-QR+ TS-080-110-55-044-QR+ TS-080-090-35-044-QR+	TS-080-090-10-045-QR+ TS-080-000-55-068-FR TS-080-045-55-068-QR+ TS-080-090-55-068-QR+ TS-080-000-55-083-FR TS-080-045-55-083-QR+ TS-080-090-55-083-QR+ TS-080-090-55-101-QR+ TS-080-090-55-130-QR+ TS-080-090-55-159-QR+ TS-100-000-55-039-FR TS-100-045-55-039-QR+ TS-100-090-55-039-QR+ TS-100-110-55-039-QR+	TS-100-090-35-039-QR+ TS-100-090-10-041-QR+ TS-100-090-55-054-QR+ TS-100-000-55-068-FR TS-100-045-55-068-QR+ TS-100-090-55-068-QR+ TS-100-090-55-101-QR+ TS-120-090-55-035-QR+ TS-120-000-55-066-FR TS-120-090-55-066-QR+ TS-120-000-55-116-FR TS-120-090-55-116-QR+ TS-120-000-55-140-FR TS-120-090-55-140-QR+
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ACCESSORIES

Mirror holder sleeves for 90° lateral viewing
 (1) Ref. : GT 040 090 020 (3) Ref. : GT 060 090 056
 (2) Ref. : GT 040 090 029 (4) Ref. : GT 080 090 035
 Viewing adaptors connectable on eyepiece
 Objective lens for camera connectable on eyepiece
 C Mount camera
 Light guide cables
 Light sources
 Removable connectors for compatibility with other brands of light cables

- Please specify when ordering
- C1 light guide cable connector (EFER/WOLF standard)
- C2 light guide cable connector (STORZ standard)
- C3 light guide cable connector (FORT standard)
- C4 light guide cable connector (ACMI/OLYMPUS standard)

SPECIAL BORESCOPIES

Integral light guide
 Specific viewing / Field / Lengths
 Swing prism borescopes
 Zoom borescopes
 Aeronautical control kits
 Non-reflective lighting
 High temperature resistance
 Nuclear radiation proofing
 Observation using UV
 WOLF standard ocular eyepiece
 Borescopes with integrated graticules



SWING PRISM SIRIUS BORESCOPIES

- 6 and 8 mm diameters
- 45° to 115° adjustable direction of view
- 370° orbital scan
- Ocular zoom depending on the model
- Full-metal handle
- 32 mm diameter standard eyepiece
- Removable connectors for compatibility with other brands of light cables
- Focus adjustment
- Multilayer coated optical components
- Optical systems optimized for each instrument diameter

FEATURES

Vocation : Industrial endoscopy

Scanning ring for 45° fore-oblique to 115° retrograde direction of view (viewing arc : 20° fore-oblique to 140° retrograde)

Focusing ring

Viewing orientation touch indicator

Viewing orientation index in the image

Ocular zoom with 1 to 2 X adjustable magnification (depending on the model)

PVC case

SWING PRISM SIRIUS BORESCOPIES

TS - 080 - VAR - 50 - 044 - QR+

SIRIUS
Borescope

Diameter
Ex. : 8 mm

45° to 115°
Variable
viewing

Field of view :
50°
30 : 30° FOV
Z50 : 50° with
ocular zoom

Working
length
Ex. : 44 cm

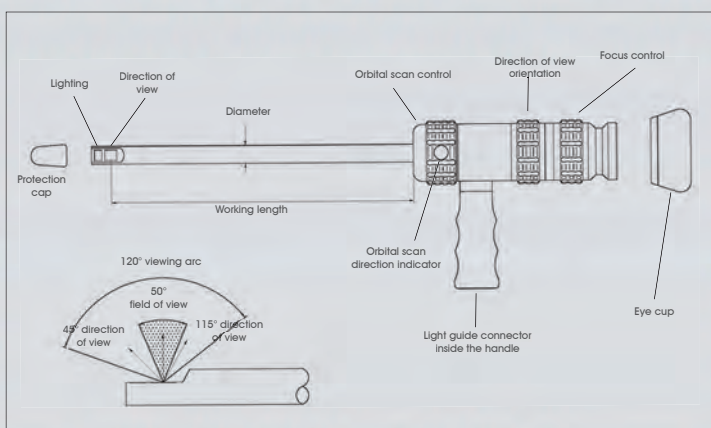
Type
Ex. : Orbital
scan

6 MM DIAMETER

REFERENCE	WORKING LENGTH	FIELD OF VIEW	DIRECTION OF VIEW
TS-060-VAR-50-022-QR+	22 CM	50°	45° FORE- OBLIQUE TO 115° RETROGRADE
TS-060-VAR-50-029-QR+	29 CM		
TS-060-VAR-50-045-QR+	45 CM		
TS-060-VAR-50-060-QR+	60 CM		
TS-060-VAR-30-022-QR+	22 CM	30°	
TS-060-VAR-30-029-QR+	29 CM		
TS-060-VAR-30-045-QR+	45 CM		
TS-060-VAR-30-060-QR+	60 CM		
TS-060-VAR-Z50-022-QR+	22 CM	50° WITH OCULAR ZOOM X2	
TS-060-VAR-Z50-029-QR+	29 CM		
TS-060-VAR-Z50-045-QR+	45 CM		
TS-060-VAR-Z50-060-QR+	60 CM		

8 MM DIAMETER

REFERENCE	WORKING LENGTH	FIELD OF VIEW	DIRECTION OF VIEW
TS-080-VAR-50-023-QR +	23 CM	50°	45° FORE- OBLIQUE TO 115° RETROGRADE
TS-080-VAR-50-032-QR +	32 CM		
TS-080-VAR-50-044-QR +	44 CM		
TS-080-VAR-50-056-QR +	56 CM		
TS-080-VAR-50-065-QR +	65 CM		
TS-080-VAR-50-091-QR +	91 CM		
TS-080-VAR-30-023-QR +	23 CM	30°	
TS-080-VAR-30-044-QR +	44 CM		
TS-080-VAR-30-065-QR +	65 CM		
TS-080-VAR-Z50-023-QR +	23 CM	50° WITH OCULAR ZOOM X2	
TS-080-VAR-Z50-032-QR +	32 CM		
TS-080-VAR-Z50-044-QR +	44 CM		
TS-080-VAR-Z50-056-QR +	56 CM		
TS-080-VAR-Z50-065-QR +	65 CM		



ACCESSORIES

Objective lens for camera connectable on eyepiece
C Mount camera
Light guide cables
Light sources

- Please specify when ordering
- C1 light guide cable connector (EFER/WOLF standard)
- C2 light guide cable connector (STORZ standard)
- C3 light guide cable connector (FORT standard)
- C4 light guide cable connector (ACMI/OLYMPUS standard)

SPECIAL BORESCOPIES

Integral light guide
Specific fields of view / Lengths
WOLF standard ocular eyepiece
Borescopes with integrated graticule



SIRIUS MICROBORESCOPIES

- 1.2, 1.7 and 2.7 mm diameters
- Axial or lateral viewing
- Selfoc mono-lens or image bundle technology
- Full-metal handle
- 32 mm diameter standard eyepiece
- Removable connectors for compatibility with other brands of light cables
- Focus adjustment
- Multilayer coated optical components
- Optical systems optimized for each instrument diameter

FEATURES

Vocation : Industrial Endoscopy

Focusing ring

Color coded Direction of view : 0° Direct (coded blue) - 90° Lateral (coded red)

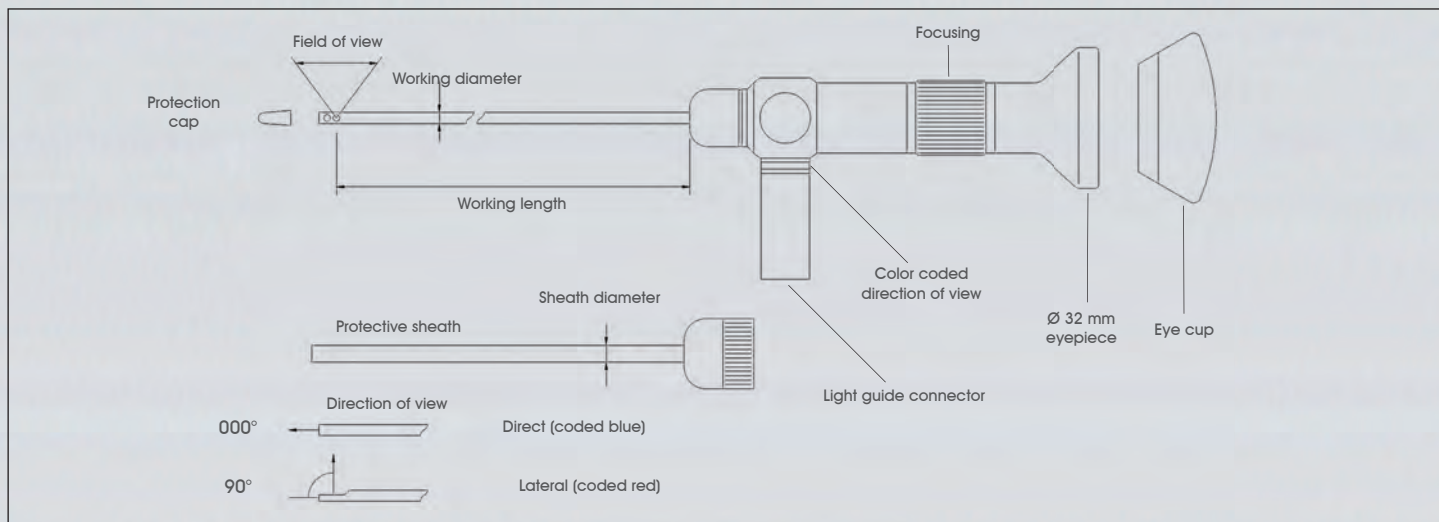
Metallic protection sheath

PVC case

SIRIUS MICROBORESCOPIES

REFERENCES		WORKING DIAMETER	MIRROR HOLDER SLEEVE DIAMETER	WORKING LENGTH	IMAGE TRANSFER TECHNOLOGY	DIRECTION OF VIEW	FIELD OF VIEW
TM-017-000-50-010-FR	(1)	1,70 MM	2,70 MM	10 CM	SELFOC MONO-LENS	0°	50°
TM-017-090-50-010-FR						90°	
TM-017-000-50-017-FR	(2)			17 CM		0°	
TM-017-090-50-017-FR						90°	
TM-027-000-50-017-FR	(3)	2,70 MM	3,50 MM			0°	
TM-027-090-50-017-FR						90°	
TM-027-000-50-027-FR	(4)			27 CM		0°	
TM-027-090-50-027-FR						90°	

TF-012-000-50-010-FR		1,20 MM	1,70 MM	10 CM	IMAGE BUNDLE 30 000 POINTS	0°	50°
TF-012-000-50-020-FR				20 CM			
TF-017-000-50-010-FR	(1)	1,70 MM	2,70 MM	10 CM		0°	
TF-017-090-50-010-FR						90°	
TF-017-000-50-020-FR	(5)			20 CM		0°	
TF-017-090-50-020-FR						90°	
TF-017-000-50-030-FR	(6)	2,70 MM	3,50 MM	30 CM		0°	
TF-017-090-50-030-FR						90°	
TF-027-000-50-010-FR	(7)			10 CM		0°	
TF-027-090-50-010-FR						90°	
TF-027-000-50-020-FR	(8)			20 CM		0°	
TF-027-090-50-020-FR						90°	
TF-027-000-50-030-FR	(9)	2,70 MM	3,50 MM	30 CM		0°	
TF-027-090-50-030-FR						90°	
TF-027-000-50-050-FR	(10)			50 CM		0°	



ACCESSORIES

Mirror holder sleeves viewing 90°

- 2.70 mm external diameter

(1) Ref. : GT 017 090 010 / (5) Ref. : GT 017 090 020

(2) Ref. : GT 017 090 017 / (6) Ref. : GT 017 090 030

- 3.50 mm external diameter

(3) Ref. : GT 027 090 017 / (7) Ref. : GT 027 090 010

(4) Ref. : GT 027 090 027 / (8) Ref. : GT 027 090 020

(9) Ref. : GT 027 090 030 / (10) Ref. : GT 027 090 050

Objective lens for camera connectable on eyepiece
C Mount camera

Light guide cables

Light sources

- Please specify when ordering

C1 light guide cable connector (EFER/WOLF standard)

C2 light guide cable connector (STORZ standard)

C3 light guide cable connector (FORT standard)

C4 light guide cable connector (ACMI/OLYMPUS standard)

SPECIAL MICROBORESCOPIES

Integral light guide

Specific Viewing / Field / Lengths



SIRIUS STANDARD BENDING FIBERSCOPES

- Full-metal handle
- 32 mm diameter standard eyepiece
- Removable connectors for compatibility with other brands of light sources or light cables
- Diopter focus adjustment
- 2, 4 and 6 mm diameters
- 2-way tip bending
- Laser-manufactured strong stainless steel angulation device
- Impregnated tungsten braid sheathing
- Axial viewing
- Lateral viewing by interchangeable optical tips (diameter 6 mm)
- Removable lighting connector

FEATURES

Vocation : Industrial Endoscopy

Diopter focus adjustment ring

2-way bending operating lever

Bending brake lever

Carrying case

SIRIUS STANDARD BENDING FIBERSCOPES

FQ

Standard
Fiberscope

-

B60

Diameter
Ex. : 6 mm

-

A1

2- way tip
bending

-

200

Working
length
Ex. : 200 cm

REFERENCE	WORKING DIAMETER	WORKING LENGTH	TIP ANGULATION	VIEW	TIP LENGTH	DEPTH OF FIELD	FIELD OF VIEW
FQ-B20-A1-070	2.4 mm	70 cm	Up110°/ Down 110°	0°	5.0 mm	2 mm to 50 mm	70°
FQ-B20-A1-120		120 cm					
FQ-B20-A1-200		200 cm					
FQ-B40-A1-100	4.0 mm	100 cm	Up 110°/ Down 110°	0°	8.0 mm	5 mm to infinite	70°
FQ-B40-A1-150		150 cm					
FQ-B40-A1-200		200 cm					
FQ-B60-A1-100	6.0 mm	100 cm	Up 110°/ Down 110°	0°	12.0 mm	5 mm to infinite	50°
FQ-B60-A1-150		150 cm					
FQ-B60-A1-200		200 cm					

ACCESSORIES

Adaptors for camera connectable on eyepiece
C Mount camera
Light sources
90° viewing prism tip for Ø 6 mm fiberscope Ref. TF6L55

- Please specify when ordering
- C1 light source connector (EFER/WOLF standard)
- C2 light source connector (STORZ standard)
- C3 light source connector (FORT standard)
- C4 light source connector (ACMI standard)

SPECIAL FIBERSCOPES

Attached light guide cable
Specific field / lengths
Specific outer sheath
Non-bending fiberscope
WOLF standard ocular eyepiece



SIRIUS FIBERPROBES

- 4, 6 and 8 mm diameters
- Impregnated tungsten braid sheathing
- Up to 30 M length
- 30000 points image bundle
- «Optical booster» viewing enhancer
- Axial viewing
- Full-metal handle
- 32 mm diameter standard eyepiece
- Removable connectors for compatibility with other bands of light cables
- Diopter focus adjustment
- High quality image bundles

FEATURES

Vocation : Industrial Endoscopy

Diopter focus adjustment ring

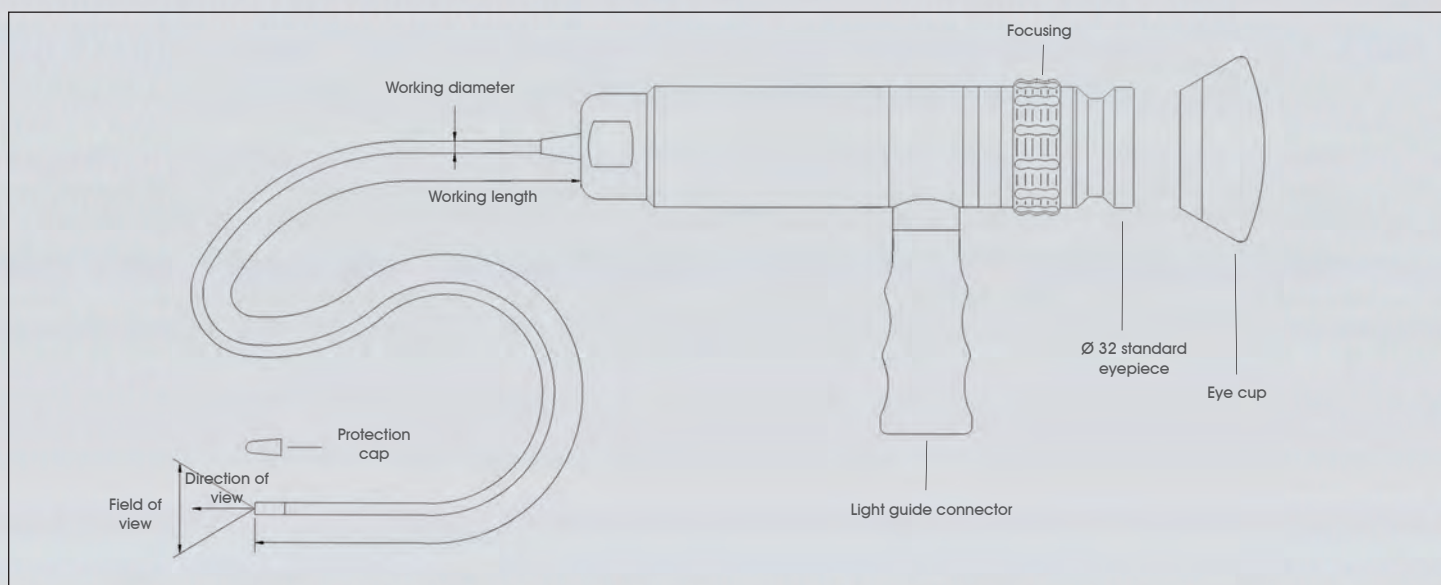
Depth of field ranging from 9 mm to infinity

Minimum bending radius of 65 mm

Carrying case

SIRIUS FIBERPROBES

REFERENCE	WORKING DIAMETER	WORKING LENGTH	TIP LENGTH	DIRECTION OF VIEW	FIELD OF VIEW	DEFINITION	90° VIEWING MIRROR						
MF-040-30-70-100-FR	4.0 mm	100 cm	10.0 mm	0°	70°	30 000 points	Ref. TC40M						
MF-040-30-70-200-FR		200 cm											
MF-040-30-70-300-FR		300 cm											
MF-040-30-70-500-FR		500 cm											
MF-040-30-70-1000-FR		1000 cm											
MF-060-30-70-100-FR	6.0 mm	100 cm	12.0 mm				0°	70°	30 000 points	Ref. TC60M			
MF-060-30-70-200-FR		200 cm											
MF-060-30-70-300-FR		300 cm											
MF-060-30-70-500-FR		500 cm											
MF-060-30-70-1000-FR		1000 cm											
MF-060-30-70-1500-FR	8.0 mm	1500 cm	16.0 mm							0°	70°	30 000 points	Ref. TC80M
MF-080-30-70-300-FR		300 cm											
MF-080-30-70-500-FR		500 cm											
MF-080-30-70-1000-FR		1000 cm											
MF-080-30-70-1500-FR		1500 cm											



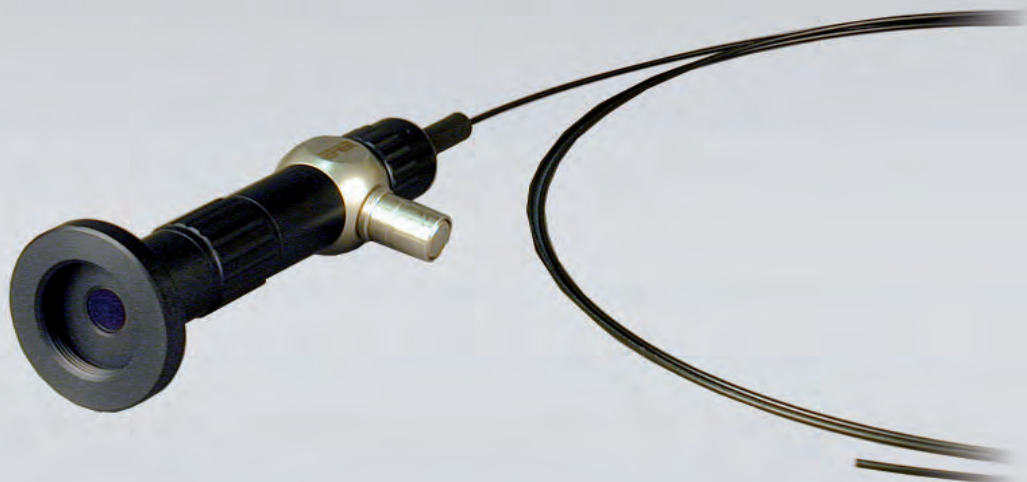
ACCESSORIES

Adaptors for camera connectable on eyepiece
C Mount camera
Light guide cables
Light sources

- Please specify when ordering
- C1 light guide cable connector (EFER/WOLF standard)
- C2 light guide cable connector (STORZ standard)
- C3 light guide cable connector (FORT standard)
- C4 light guide cable connector (ACMI/OLYMPUS standard)

SPECIAL FIBERPROBES

Integral light cable
50° field of view / specific lengths
90° viewing by prism
High-temperature resistance
Radiation proofing
Specific outer sheaths



SIRIUS MICROFIBERPROBES

- 0.8, 1.0 and 2.5 mm diameters
- Up to 3 M length
- «Optical booster» viewing enhancer
- Axial viewing
- Full-metal handle
- 32 mm diameter standard eyepiece
- Removable connectors for compatibility with other brands of light cables
- Diopter focus adjustment
- High quality image bundles

FEATURES

Vocation : Industrial Endoscopy

Diopter focus adjustment ring

Depth of field ranging from 3 mm to infinity

Minimum bending radius of 30 mm

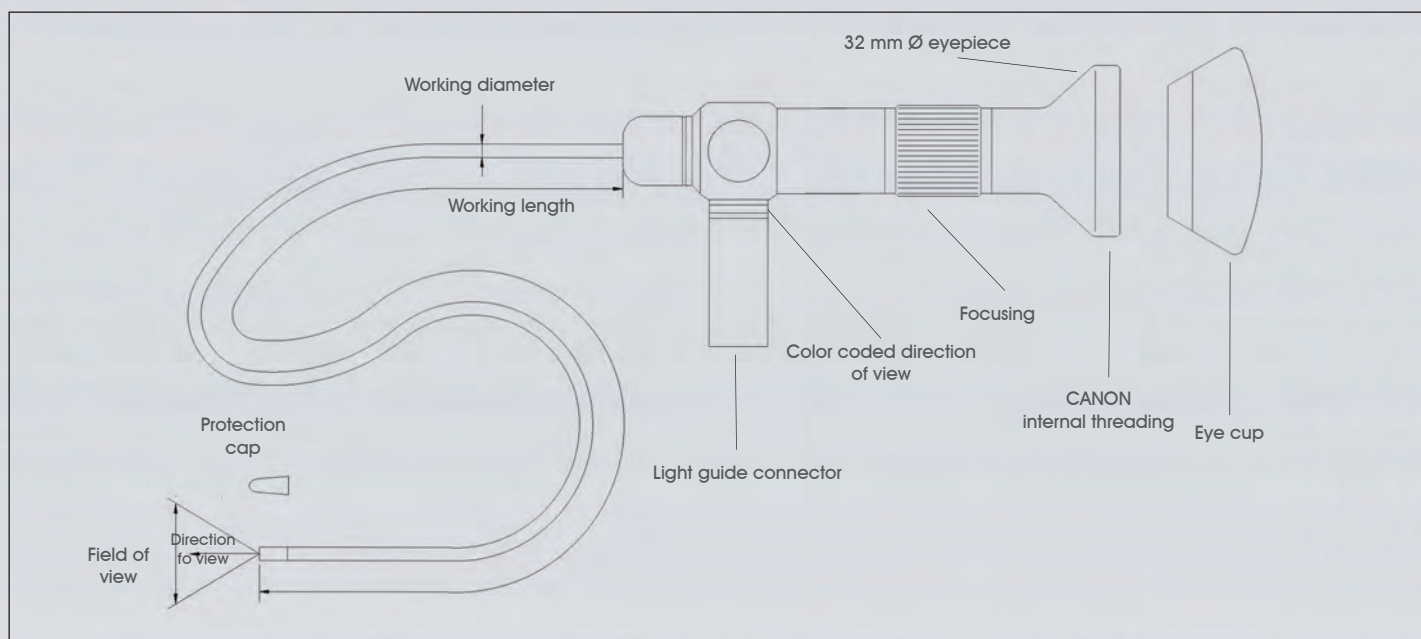
Plastic sheathing for 0.80 mm and 1 mm diameter microfiberscopes

Metallic sheathing covered by a stainless steel braid for 2.50 mm diameter microfiberscopes

Carrying case

SIRIUS MICROFIBERPROBES

REFERENCE	WORKING DIAMETER	WORKING LENGTH	DIRECTION OF VIEW	FIELD OF VIEW	DEFINITION
MF-008-06-70-025-FR	0.8 mm	25 cm	0°	70°	6 000 points
MF-008-06-70-050-FR		50 cm			
MF-010-10-70-050-FR	1.0 mm	50 cm			10 000 points
MF-010-10-70-100-FR		100 cm			
MF-010-10-70-200-FR		200 cm			
MF-025-10-70-050-FR	2.5 mm	50 cm			
MF-025-10-70-100-FR		100 cm			
MF-025-10-70-200-FR		200 cm			
MF-025-10-70-300-FR		300 cm			



ACCESSORIES

Adaptors for camera connectable on eyepiece
C Mount camera
Light guide cables
Light sources

- Please specify when ordering
- C1 light guide cable connector (EFER/WOLF standard)
- C2 light guide cable connector (STORZ standard)
- C3 light guide cable connector (FORT standard)
- C4 light guide cable connector (ACMI/OLYMPUS standard)

SPECIAL MICROFIBERSCOPES

Integral light cable
50° Field of view / specific lengths
Specific outer sheath



EVS 900 VIDEOENDOSCOPY SYSTEM

Compact and instantly operational, this system features a 12 inch viewing screen, an endoscopic camera head, a multi-LED light source, a JPEG and MPEG4 audio-video recording system.

EVS 900 VIDEO-LIGHT UNIT

- 12 inch screen
- Long life, multi-LED lighting
- Digital zoom and image freeze
- Patient Data Menu
- Pictures and video archiving on SD card
- Interchangeable light connector
- SVGA video streaming output

MUCAM 900 CAMERA PROBE

- High sensitivity sensor
- Light weight Ultem™ body
- 2 remote control buttons
- Integrated video processor
- High resistance, low shape-memory camera cable
- Waterproof

VARIABLE FOCAL LENGTH VIDEO COUPLER

- 18 to 35 mm variable focal length
- Adjustable focus
- C-mount camera connection
- Quick-lock attachment on 32 mm standard eyepiece

CONTROL UNIT

VIDEO ADJUSTMENTS

Access to recordable user-setup through the menu key.

Recordable functions in the user-setup:

- 2 image analysis windows
- 15 autoshutter reference points
- Anti-moiré function for fiberscope
- 15 blue level positions
- 15 red level positions
- Screen brightness adjustment
- SD card formatting
- Date and time adjustment
- Light source ON/OFF

ON-SCREEN INDICATIONS

Title

Date and time

CAMERA HEAD

2 remote control buttons for image and video recording

Multi-point connector

C-mount standard camera

Angled cable exit

Camera head fully immersible

VIDEO COUPLER

C-mount standard

Quick-lock attachment on Ø 32 mm standard eyepiece

Image size and focus adjustment

Coupler fully immersible (connected on the camera)

ACCESSORIES

18 to 35 mm variable focal length video coupler:

OTV-Z18-35-EL

13 to 35 mm fixed focal length video couplers

2.5 m length light cable: CUS2545-E1/G4

Qwerty PC keyboard: KPC 900-1

B11 light cable connector base (standard EFER/FORT)

B21 light cable connector base (standard STORZ)

B31 light cable connector base (standard OLYMPUS)

B41 light cable connector base (standard WOLF)

B51 light cable connector base (standard ACMI)

B61 light cable connector base (standard VOLPI)

TECHNICAL FEATURES

REFERENCE

EVS-MUCAM-900T

Vocation

Industrial endoscopy

CONTROL UNIT

Reference

EVS 900 T

Screen size

12 inch

Screen resolution

800 x 600

Light source

multi-LED

LED lifespan

30 000 hours

Light connection

Interchangeable connector
(supplied with B4I)

Video streaming output

SVGA

Output connection

VGA

Keyboard connection

PC type

Image recording

JPEG

Video recording

MPEG4

Real-time function

Digital zoom and image freeze

Light source

ON/OFF via menu

Screen brightness

Adjustable via menu

Date and time

Adjustable via menu

Image and video playback
function

Selective and thumbnail playback

Storage media

SD card (formatable by unit)

AC power supply

100-240V 50-60Hz

Dimensions (screen closed)

D 290 x H 110 x L315 mm

Weight

4 Kg

CAMERA HEAD

Reference

MUCAM 900T

CCD sensor size

1/3 inch

Autoshutter

1/50 to 1/100 000 s

Autoshutter reference point

15 positions

White balance

Auto-lock

Edge enhancement

ON/OFF

Image analysis surfaces

Full/Spot

Anti-moiré function for fiberscope

ON/OFF

Blue level adjustment

15 positions

Red level adjustment

15 positions

Remote control

2 recording buttons

Camera/unit connection

Multi-point

Camera/coupler connection

C-mount standard

Waterproofing

Fully immersible

Head dimensions (Dia/L)

30 mm / 100 mm

Cable dimensions (Dia/L)

4 mm / 3 meters

Camera head weight

80 gr

VIDEO COUPLER

Reference	Variable focal length
OTV-Z18-35-EL	18 to 35 mm

Focus adjustment

Rotating ring

Image size adjustment

Rotating ring

Coupler/eyepiece connection

Quick lock on 32mm std eyepiece

Coupler/camera connection

C-mount standard

LIGHT CABLE

Reference

CUS2545-E1/G4

Length

2.5 meters

Light source connection

B4I connector

Endoscope connection

For EFER endoscope



FLASHPACK 900 VIDEOENDOSCOPY SYSTEM

Compact and instantly operational, this system features a 5 inch viewing screen, an endoscopic camera head and a JPEG and MPEG4 audio-video recording system.

FLASHPACK 900 VIDEO-LIGHT UNIT

- 5 inch screen
- Digital zoom and image freeze
- Patient Data Menu
- Pictures and video archiving on SD card
- SVGA video streaming output

MUCAM 900 CAMERA PROBE

- High sensitivity sensor
- Light weight Ultem™ body
- 2 remote control buttons
- Integrated video processor
- High resistance, low shape-memory camera cable
- Waterproof

VARIABLE FOCAL LENGTH VIDEO COUPLER

- 18 to 35 mm variable focal length
- Adjustable focus
- C-mount camera connection
- Quick-lock attachment on 32 mm standard eyepiece

CONTROL UNIT

VIDEO ADJUSTMENTS

Access to recordable user-setup through the menu key.

Recordable functions in the user-setup:

- 2 image analysis windows
- 15 autoshutter reference points
- Anti-moiré function for fiberscope
- 15 blue level positions
- 15 red level positions
- Screen brightness adjustment
- SD card formatting
- Date and time adjustment
- Light source ON/OFF

ON-SCREEN INDICATIONS

Title

Date and time

CAMERA HEAD

2 remote control buttons for image and video recording

Multi-point connector

C-mount standard camera

Angled cable exit

Camera head fully immersible

VIDEO COUPLER

C-mount standard

Quick-lock attachment on Ø 32 mm standard eyepiece

Image size and focus adjustment

Coupler fully immersible (connected on the camera)

ACCESSORIES

18 to 35 mm variable focal length video coupler:

OTV-Z18-35-EL

13 to 35 mm fixed focal length video couplers.

TECHNICAL FEATURES

REFERENCE

Vocation

CONTROL UNIT

Reference

Screen size

Screen resolution

Video streaming output

Output connection

Image recording

Video recording

Real-time function

Screen brightness

Date and time

Image and video playback function

Storage media

Power supply

Dimensions (screen closed)

Weight

FLASH-MUCAM-900T

Industrial endoscopy

FLASHPACK 900

5 inch

640 x 480

SVGA

VGA

JPEG

MPEG4

Digital zoom and image freeze

Adjustable via menu

Adjustable via menu

Selective and thumbnail playback

SD card (formatable by unit)

Autonomy with removable battery

AC 100-240V 50-60Hz

L 200 x H 175 x P 65 mm

1 Kg 200

CAMERA HEAD

Reference

CCD sensor size

Autoshutter

Autoshutter reference point

White balance

Edge enhancement

Image analysis surfaces

Anti-moiré function for fiberscope

Blue level adjustment

Red level adjustment

Remote control

Camera/unit connection

Camera/coupler connection

Waterproofing

Head dimensions (Dia/L)

Cable dimensions (Dia/L)

Camera head weight

MUCAM 900T

1/3 inch

1/50 to 1/100 000 s

15 positions

Auto-lock

ON/OFF

Full/Spot

ON/OFF

15 positions

15 positions

2 recording buttons

Multi-point connector

C-mount standard

Fully immersible

30 mm / 100 mm

4 mm / 3 meters

80 gr

VIDEO COUPLER

Reference

Variable focal length

OTV-Z18-35-EL

18 to 35 mm

Focus adjustment

Image size adjustment

Coupler/eyepiece connection

Coupler/camera connection

Rotating ring

Rotating ring

Quick lock on 32mm std eyepiece

C-mount standard



VARIABLE OR FIXED FOCAL LENGTH VIDEO COUPLERS

- VARIABLE FOCAL LENGTH VIDEO COUPLERS OPTIMIZED FOR MUCAM CAMERA
 - 18 to 35 mm variable focal length
 - 32mm standard eyepiece fast locking
 - Special C-mount connection on MUCAM camera
 - Adjustable focus
- FIXED FOCAL LENGTH VIDEO COUPLERS OPTIMIZED FOR MUCAM CAMERA
 - With or without 32 mm standard eyepiece fast locking with anti-rotation device
 - C-mount connection on MUCAM camera
 - Adjustable focus

VOCATION : Industrial endoscopy

VARIABLE FOCAL LENGTH VIDEO COUPLERS OPTIMIZED FOR MUCAM



- 18 to 35 mm variable focal length
- 32 mm standard eyepiece fast-locking with anti-rotation device
- C-mount camera connection for MUCAM camera
- Adjustable focus
- Image size adjustment ring

Reference : OTV-Z18-35-EL

FIXED FOCAL LENGTH VIDEO COUPLERS OPTIMIZED FOR MUCAM



- 32 mm standard eyepiece fast-locking with anti-rotation device
- Connexion Monture C pour caméra MUCAM
- Adjustable focus

Focal lgth 13mm Ref. OTW-13-ES
Focal lgth 17mm Ref. OTW-17-ES
Focal lgth 20mm Ref. OTW-20-ES
Focal lgth 25mm Ref. OTV-25-ES
Focal lgth 30mm Ref. OTV-30-ES
Focal lgth 35mm Ref. OTV-35-ES



- Without 32 mm EFER standard eyepiece fast-locking and with threaded connection
- Connexion Monture C pour caméra MUCAM
- Adjustable focus

Focal lgth 13mm Ref. OTW-13-EU
Focal lgth 17mm Ref. OTW-17-EU
Focal lgth 20mm Ref. OTW-20-EU
Focal lgth 25mm Ref. OTV-25-EU
Focal lgth 30mm Ref. OTV-30-EU
Focal lgth 35mm Ref. OTV-35-EU

OPTIONS & ACCESSORIES

Quick-lock mechanism for WOLF standard eyepiece.

Adaptor referenced ANO for transforming OLYMPUS fiberscope eyepieces into 32 mm international eyepieces

Specific focal lengths on request



VEGA 150 STANDARD 150 W HALOGEN LIGHT SOURCE

- 115/230v, 50-400 Hz switching powering
- Removable coupling bases for compatibility with other brands of light cables
- AC auto voltage sensing
- Light intensity adjustment
- Rugged metallic casing

TECHNICAL FEATURES

REFERENCE

Vocation
Lamp
Color temperature
Lamp power output
Lamp life
Brightness tuning
AC self-switching power supply
Dimensions
Weight

VEGA 150

Industrial Endoscopy
Halogen
3200 ° K
150 W
50 Hours
Mechanical shutter
115 / 230 V / 50-400 Hz / 190 VA
L 180 X D 240 X H 110 mm
2,5 Kg

FRONT PANEL

ON / OFF light switch
Rotating knob for brightness adjustment
Removable light guide cable connector base

PRESENTATION

Full metal box with removable cover

BACK PANEL

AC power supply plug
Fuses 3.15 AT & 12 AT

ACCESSORIES

- Supplied
230 V 50 Hz Power cable
115 V 60/400 Hz Power cable

SAFETY FEATURES

Complies with European Directives

- Electromagnetic immunity
- Electromagnetic interference
- Electrical safety

- Please specify when ordering
B1 Light cable connector base (Standard FORT)
B2 Light cable connector base (Standard STORZ)
B3 Light cable connector base (Standard OLYMPUS)
B4 Light cable connector base (Standard WOLF)
B5 Light cable connector base (Standard ACMI)
B6 Light cable connector base (Standard VOLPI)



VEGA 400 VERSATILE 50 W XENON LIGHT SOURCE

- 110-250v, 50-400 Hz universal powering
- 12v DC powering
- 5800°K color temperature
- Removable coupling bases for compatibility with other brands of light cables
- AC auto voltage sensing
- Light intensity adjustment
- Rugged metallic casing

TECHNICAL FEATURES

REFERENCE

Vocation

Lamp

Color temperature

Lamp power output

Lamp life

Brightness tuning

AC power supply

DC power supply

Dimensions

Weight

VEGA 400

Industrial Endoscopy

Xenon

5800 ° K

50 W

2500 Hours

Mechanical shutter

100 - 250 V / 50-400 Hz / 80 VA

10 -15 V

L 180 X D 240 X H 110 mm

2,5 Kg

FRONT PANEL

ON / OFF light switch

Rotating knob for brightness adjustment

Removable light guide cable connector base

PRESENTATION

Full metal box

BACK PANEL

AC power supply plug

DC power supply plug

Fuses 2 A & 8 A

ACCESSORIES

● Supplied

230 V 50 Hz power cable

115 V 60/400 Hz power cable

● Additional accessory to order

3 meter long, 12 V external power supply cable

REF : CA 12-03

● Please specify when ordering

B1 light cable connector base (Standard FORT)

B2 light cable connector base (Standard STORZ)

B3 light cable connector base (Standard OLYMPUS)

B4 light cable connector base (Standard WOLF)

B5 light cable connector base (Standard ACMI)

B6 light cable connector base (Standard VOLPI)

SAFETY FEATURES

Complies with European Directives

- Electromagnetic immunity
- Electromagnetic interference
- Electrical safety



ORION 60 LIGHT SOURCE

- 600 lumen high-power LED
- Direct connection to endoscope or fiberscope handle
- Li-Ion battery
- 2 hour approximate autonomy
- Battery charger
- Anodised aluminium body
- Length : 160 mm
- Max diameter : 38 mm
- Weight : 216 g



LIGHTING ACCESSORIES

EFER-designed accessories broaden the application fields of its standard endoscopic range in particular by enabling the inter-connection of EFER products with other brands of equipment.

- Universal light cables with removable end connectors
- End connectors for EFER light cables compatibility with other brands of borescopes
- End connectors for EFER light cables compatibility with other brands of light sources
- Connectors for EFER borescopes & fiberscopes compatibility with other brands of light cables
- Coupling bases for EFER light sources compatibility with other brands of light cables

VOCATION : Industrial endoscopy



C1
EFER / WOLF

C2
STORZ

C3
FORT

C4
ACMI F
OLYMPUS

E1
EFER / WOLF

E2
STORZ

E3
FORT

E4
ACMI M
OLYMPUS

E5
ACMI F



LIGHT GUIDE CABLES

G1 EFER / FORT

G2 STORZ

G3 OLYMPUS

G4 WOLF

G5 ACMI

G6 VOLPI

B1
EFER / FORT

B2
STORZ

B3
OLYMPUS

B4
WOLF

B5
ACMI

B6
VOLPI

LIGHT GUIDE CABLES

REFERENCE	LENGTH	TYPE OF CONNECTION
CUH 1845	1.80 M	Without connector (specify when you order)
CUH 2545	2.50 M	Without connector (specify when you order)
CUH 3645	3.60 M	Without connector (specify when you order)

LIGHT GUIDE CABLE CONNECTORS

LIGHT SOURCE SIDE	
REFERENCE	TYPE
G1	EFER / FORT STANDARD
G2	STORZ STANDARD
G3	OLYMPUS STANDARD
G4	WOLF STANDARD
G5	ACMI STANDARD
G6	VOLPI STANDARD
G8	MACHIDA STANDARD

BORESCOPE SIDE	
REFERENCE	TYPE
E1	EFER / WOLF STANDARD
E2	STORZ STANDARD
E3	FORT STANDARD
E4	ACMI MALE STANDARD / OLYMPUS
E5	ACMI FEMALE STANDARD

BORESCOPE CONNECTORS

REFERENCE	TYPE
C1	EFER / WOLF STANDARD
C2	STORZ STANDARD
C3	FORT STANDARD
C4	OLYMPUS / ACMI FEMALE STANDARD

LIGHT SOURCE BASES

REFERENCE	TYPE
B1	EFER / FORT STANDARD
B2	STORZ STANDARD
B3	OLYMPUS STANDARD
B4	WOLF STANDARD
B5	ACMI STANDARD
B6	VOLPI STANDARD



EASYFLASHER 800
Diameters 5, 6 and 8 mm



ALLGLASS 800
Diameters 4 and 6 mm



ENDOFLASHER 800
Diameters 4, 5, 6, 6 with internal channel
and 8 mm



TIVE 800
ARGUS 800
Diameters 4, 5, 6, 6 with internal channel
and 8 mm



EFER
ENDOSCOPY