

# MEDICAL ENDOSCOPY

## OEM PRODUCTS

OEM PRODUCTS INFORMATION

DEVICES AND ACCESSORIES

ENDOSCOPES



ADDITIONAL INFORMATION

# CONTENT

## OEM PRODUCTS INFORMATION

- OEM Products: A perfect high quality addition to your portfolio
- Design possibilities for endoscopes and electronic devices
- Add-on information

## ENDOSCOPES

- 4K UHD Laparoscopes in Ø 10,0 mm
- HD Laparoscopes in Ø 10.0 mm & 5.0 mm

- HD Cystoscopes in Ø 2.9 mm & 4.0 mm
- Nephroscopes and Mini-Nephroscopes
- Uretero-Renoscopes and Mini-Uretero-Renoscopes
- UHD and HD Endoscopes for laparoscopic procedures in Urology

- HD Arthroscopes in Ø 2.7 mm & 4.0 mm

- HD Sinuscopes in ø 2.7 mm & 4.0 mm

## DEVICES AND ACCESSORIES

- 4K UHD and Full HD Cameras
- Cables and Power Cords

- Light Sources
- Light Guides and Adapters

## VISUALIZATION SYSTEMS

- NIR FI CCUs and camera head
- NIR FI LED Light Source and light guide
- NIR FI Laparoscopes

## ADDITIONAL INFORMATION

- Global Customer Care and Technical Services



## EXCELLENCE INSIDE IS THE BEST MEDICINE.

Our products are the perfect addition to your portfolio and support your brand in an excellent manner.

You can use the existing registrations or you can register as “Made by Your Company”. The choice is yours. If you decide for existing registrations, you can profit from our products immediately, since our OEM products are already registered in many countries.

If you decide to register under your company name, we will support you with the documentation you require or, alternatively, complete the entire registration process for you.

Regardless of this decision, you can supplement your portfolio with latest OEM products and avoid time-consuming and cost-intensive development and production steps.

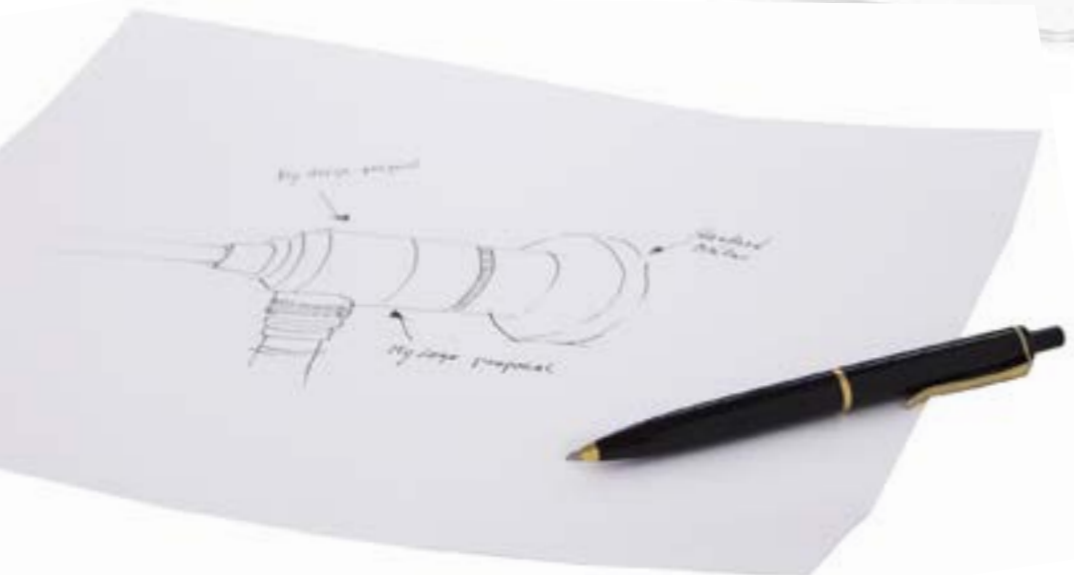
**EXCELLENCE INSIDE**  
SUPPORTS YOU FROM THE IDEA  
TO THE FINISHED PRODUCT.

The complete manufacturing process from a single source.

The basis of our product design are various bodies of an endoscope or the housing of the camera head and the controller. Individualization tools, e.g. a marking of the camera head or designing of the front panel of the controller are available and can be made according to your corporate design.



**TECHNICAL DRAFT**



**THE IDEA**



**DESIGN POSSIBILITIES  
OF ENDOSCOPES**



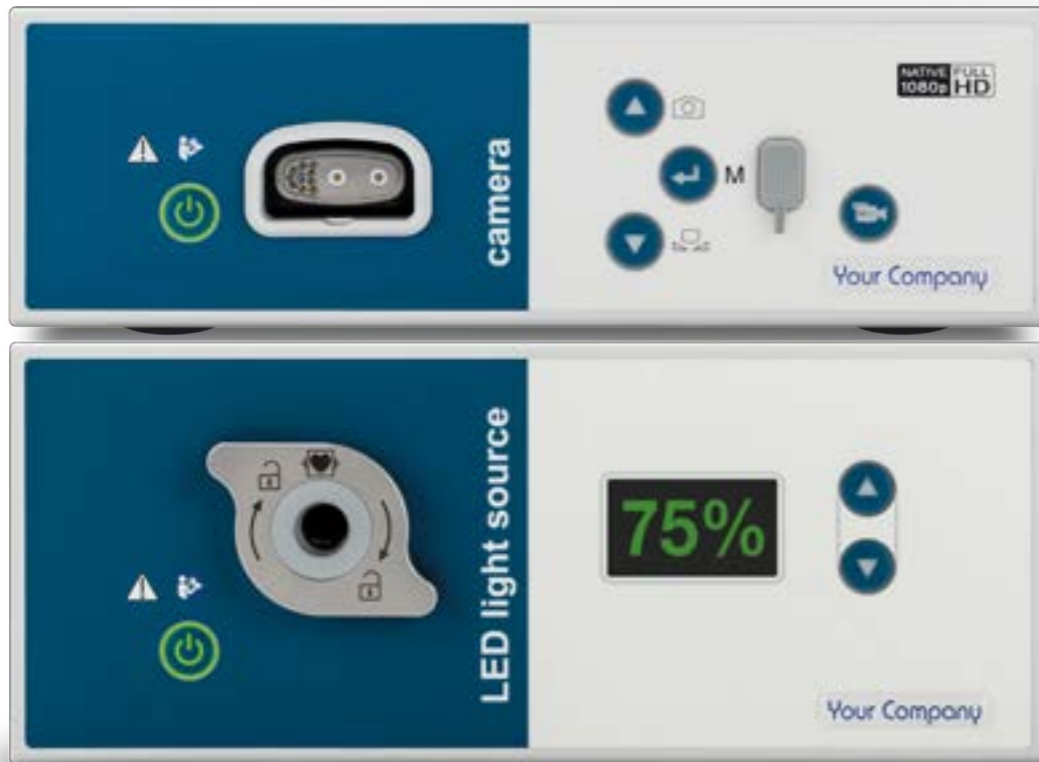


## EXCELLENCE INSIDE

OFFERS YOU THE POSSIBILITY  
OF YOUR INDIVIDUAL DESIGN.



DESIGN POSSIBILITIES OF  
CAMERAS AND LIGHT SOURCES



## OEM PRODUCTS

# OUR SERVICES

### REGISTRATIONS | CERTIFICATES

Regulatory requirements, such as the required IEC reports, are constantly changing. To ensure that our customers do not suffer any delays, we take care of necessary changes or additions at an early stage. We maintain an own certified quality laboratory for this purpose.

As a UDI-compliant manufacturer, we offer you solutions for direct marking (e. g. machine-readable Datamatrix) on the products.

We are certified according to MDSAP and thus facilitate your market entry in Japan, USA, Brazil, Canada and Australia.

### LABELING

To ensure that the products are delivered in perfect condition, you will receive packaging that is tailored to the respective product and validated. A uniform packaging concept allows you to easily identify and assign our products.

### DOCUMENTS ACCOMPANYING THE PRODUCT

Countries have different requirements as to which documents must be enclosed with a medical device and in what form. Regardless of which country you wish to deliver to, we will provide you with the contents and languages specified for that country. This applies for the instructions for use and all necessary accompanying documents and labels.

If you require additional languages or language combinations, you can obtain them from us. We work with certified translation agencies for this purpose.

## OEM PRODUCTS INFO

### LAPAROSCOPY

### UROLOGY

### ORTHOPEDICS

### EAR-NOSE-THROAT

### LIGHT SOURCES

### CAMERAS

### SYSTEMS

### SERVICES

### ABOUT

**EXCELLENCE INSIDE**  
IN THE ENTIRE RANGE OF  
LAPAROSCOPIC PRODUCTS.



## LAPAROSCOPY

The new laparoscopes "FlexiLux 4" are optimized for the use with 4K UHD camera systems.

The resolution has been improved especially in the edge areas, resulting in a homogeneously sharp image in UHD resolution. A large depth of field range ensures sharp imaging even with changing working distances. The objective reduces image artifacts and reflections; thus maximizes the contrast.

All of our UHD and HD laparoscopes are of first-class quality - for best image conditions.

**4K**  
ULTRA HD

**1080p**  
FULL HD

LAPAROSCOPY  
Laparoscopes

**FLEXILUX 4 LAPAROSCOPES**

Rigid endoscope with rod lens system, optimized for the use with 4K HD camera systems; 10.0 mm in diameter



Item number	Endoscope Ø	Working length	Direction of view	Field of view
11-0231a	10.0 mm UHDScope	344 mm	0°	wide angle
11-0243a	10.0 mm UHDScope	344 mm	30°	wide angle

OEM PRODUCTS INFO

LAPAROSCOPY

UROLOGY

ORTHOPEDICS

EAR-NOSE-THROAT

LIGHT SOURCES

CAMERAS

SYSTEMS

SERVICES

ABOUT

LAPAROSCOPY  
Laparoscopes

**FLEXILUX II LAPAROSCOPES**

Rigid endoscope with rod lens system;  
10.0 mm in diameter



Item number	Endoscope Ø	Working length	Direction of view	Field of view
11.0031a	10.0 mm HDscope	344 mm	0°	wide angle
11.0043a	10.0 mm HDscope	344 mm	30°	wide angle
11.0041a	10.0 mm HDscope	344 mm	45°	wide angle

**FLEXILUX II LAPAROSCOPES**

Rigid endoscope with rod lens system;  
5.0 mm in diameter



Item number	Endoscope Ø	Working length	Direction of view	Field of view
11.0055a	5.0 mm HDscope	312 mm	0°	wide angle
11.0057a	5.0 mm HDscope	312 mm	30°	wide angle

OEM PRODUCTS INFO

LAPAROSCOPY

UROLOGY

ORTHOPEDICS

EAR-NOSE-THROAT

LIGHT SOURCES

CAMERAS

SYSTEMS

SERVICES

ABOUT



## Laparoscopes Overview

Item number	Endoscope Ø	Working length	Direction of view	Field of view
11-0231a	10.0 mm UHDScope	344 mm	0°	wide angle
11-0243a	10.0 mm UHDScope	344 mm	30°	wide angle
11.0031a	10.0 mm HDScope	344 mm	0°	wide angle
11.0043a	10.0 mm HDScope	344 mm	30°	wide angle
11.0041a	10.0 mm HDScope	344 mm	45°	wide angle
11.0055a	5.0 mm HDScope	312 mm	0°	wide angle
11.0057a	5.0 mm HDScope	312 mm	30°	wide angle

OEM PRODUCTS INFO

LAPAROSCOPY

UROLOGY

ORTHOPEDICS

EAR-NOSE-THROAT

LIGHT SOURCES

CAMERAS

SYSTEMS

SERVICES

ABOUT

**EXCELLENCE INSIDE**  
IN THE ENTIRE RANGE OF  
UROLOGICAL PRODUCTS.



## UROLOGY

With our endoscopes we cover a wide range of urological applications.

The rigid endoscopes feature HD quality and fully support the today's high definition cameras.

Our nephroscopy product range comprises a mini-nephroscope in  $\varnothing$  13.5 Fr. and a  $\varnothing$  19.0 Fr. nephroscope.

The uretero-renaloscopes are constructed for a smooth and gentle insertion. There is no need of camera re-focusing and no loss of picture, due to the ocular construction.

# Cystoscopes

## FLEXILUX II CYSTOSCOPES

Rigid endoscope with rod lens system;  
2.9 mm in diameter;  
compatible to system [Storz](#)



Item number	Endoscope Ø	Working length	Direction of view	Field of view
41.0160a	2.9 mm HDscope	302 mm	0°	wide angle
41.0161a	2.9 mm HDscope	302 mm	30°	wide angle

OEM PRODUCTS INFO

LAPAROSCOPY

**UROLOGY**

ORTHOPEDICS

EAR-NOSE-THROAT

LIGHT SOURCES

CAMERAS

SYSTEMS

SERVICES

ABOUT

# Cystoscopes

## FLEXILUX II CYSTOSCOPES

Rigid endoscope with rod lens system;  
4.0 mm in diameter;  
compatible to system [Storz](#)



Item number	Endoscope Ø	Working length	Direction of view	Field of view
41.0047a	4.0 mm HDscope	302 mm	0°	standard
41.0049a	4.0 mm HDscope	302 mm	0°	wide angle
41.0059a	4.0 mm HDscope	302 mm	12°	standard
41.0057a	4.0 mm HDscope	302 mm	30°	standard
41.0055a	4.0 mm HDscope	302 mm	30°	wide angle
41.0121a	4.0 mm HDscope	302 mm	70°	wide angle

OEM PRODUCTS INFO

LAPAROSCOPY

**UROLOGY**

ORTHOPEDICS

EAR-NOSE-THROAT

LIGHT SOURCES

CAMERAS

SYSTEMS

SERVICES

ABOUT

## Cystoscopes Overview

Item number	Endoscope Ø	Working length	Direction of view	Field of view
41.0160a	2.9 mm HDScope	302 mm	0°	wide angle
41.0161a	2.9 mm HDScope	302 mm	30°	wide angle
41.0047a	4.0 mm HDScope	302 mm	0°	standard
41.0049a	4.0 mm HDScope	302 mm	0°	wide angle
41.0059a	4.0 mm HDScope	302 mm	12°	standard
41.0057a	4.0 mm HDScope	302 mm	30°	standard
41.0055a	4.0 mm HDScope	302 mm	30°	wide angle
41.0121a	4.0 mm HDScope	302 mm	70°	wide angle

OEM PRODUCTS INFO

LAPAROSCOPY

UROLOGY

ORTHOPEDICS

EAR-NOSE-THROAT

LIGHT SOURCES

CAMERAS

SYSTEMS

SERVICES

ABOUT



UROLOGY  
Laparoscopes



Endoscopes for laparoscopic procedures  
in Urology please click [here](#)

- OEM PRODUCTS INFO
- LAPAROSCOPY
- UROLOGY**
- ORTHOPEDICS
- EAR-NOSE-THROAT
- LIGHT SOURCES
- CAMERAS
- SYSTEMS
- SERVICES
- ABOUT SCHÖLLY

# Nephroscopes

## NEPHROSCOPES

- Lightweight construction with contrast enhanced image bundle
- Integrated irrigation and working channel
- With image bundle (30,000 pixels)

Scope of delivery: Nephroscope.  
Please order the instrument bridge separately



Item number	Diameter	Working length	Working channel for instrument with a Ø of:	Working channel ø	Direction of view	Field of view
41.0634a	13.5 Fr.	220 mm	5.0 Fr.	6 Fr.	8° to working channel	85°
41.0635a	13.5 Fr.	320 mm	5.0 Fr.	6 Fr.	8° to working channel	85°
41.0630a	19.0 Fr.	220 mm	9.0 Fr.	10 Fr.	8° to working channel	85°

OEM PRODUCTS INFO

LAPAROSCOPY

**UROLOGY**

ORTHOPEDICS

EAR-NOSE-THROAT

LIGHT SOURCES

CAMERAS

SYSTEMS

SERVICES

ABOUT

ACCESSORIES



Instrument bridge



Sealing cap



Three slot membrane

Item number	Description
41.0641a	Instrument bridge for nephroscope 41.0634a, 41.0635a and 41.0630a
41.0600d	Sealing cap, package of 10 pcs.
41.0593d	Three slot membrane, package of 10 pcs.

OEM PRODUCTS INFO

LAPAROSCOPY

UROLOGY

ORTHOPEDICS

EAR-NOSE-THROAT

LIGHT SOURCES

CAMERAS

SYSTEMS

SERVICES

ABOUT

# Uretero-Renoscopes

## URETERO-RENOSCOPES

- Semi-rigid endoscope, with bending deflection of +/- 15°, based on the endoscope axis
- Laterally staggered ocular part
- With image bundle (17,000 / 30,000 pixels)

Scope of delivery: Uretero-renoscope, detachable instrument bridge, one pack of sealing caps and one pack of three slot membranes



Item number	Working Ø	Working length	Working channel for instruments with a Ø of:	Direction of view	Field of view
41.0615a.wol	distal 6.0 Fr.	310 mm	1 x 4.0 Fr. or 2 x 2.4 Fr.	8° to working channel	100°
41.0614a.wol	distal 6.0 Fr.	425 mm	1 x 4.0 Fr. or 2 x 2.4 Fr.	8° to working channel	100°
41.0611a.wol	distal 7.5 Fr.	310 mm	1 x 5.0 Fr. or 2 x 3.0 Fr.	8° to working channel	85°
41.0609a.wol	distal 7.5 Fr.	425 mm	1 x 5.0 Fr. or 2 x 3.0 Fr.	8° to working channel	85°

OEM PRODUCTS INFO

LAPAROSCOPY

**UROLOGY**

ORTHOPEDICS

EAR-NOSE-THROAT

LIGHT SOURCES

CAMERAS

SYSTEMS

SERVICES

ABOUT

## ACCESSORIES



Instrument bridge



Sealing cap



Three slot membrane

Item number	Description
41.0617a	Instrument bridge

Item number	Description
41.0600d	Sealing cap, package of 10 pcs.
41.0593d	Three slot membrane, package of 10 pcs.

OEM PRODUCTS INFO

LAPAROSCOPY

**UROLOGY**

ORTHOPEDICS

EAR-NOSE-THROAT

LIGHT SOURCES

CAMERAS

SYSTEMS

SERVICES

ABOUT



**EXCELLENCE INSIDE**  
IN THE ENTIRE RANGE OF  
ORTHOPEDIC PRODUCTS.



## ORTHOPEDICS

Our arthroscopes for small joints or for knee-, shoulder- and hip arthroscopy convince with their image quality and a robust construction.

The 2.7 - 4.0 mm Ø endoscopes feature HD quality and fully support the today's high definition cameras.

## ORTHOPEDICS

# Arthroscopes

### FLEXILUX II ARTHROSCOPES

Rigid endoscope with rod lens system;  
2.7 mm in diameter;  
compatible to system [Storz](#)



Item number	Endoscope Ø	Working length	Direction of view	Field of view
21.0617a	2.7 mm HDscope	187 mm	0°	standard
21.0619a	2.7 mm HDscope	187 mm	30°	standard
21.0621a	2.7 mm HDscope	187 mm	70°	standard

OEM PRODUCTS INFO

LAPAROSCOPY

UROLOGY

**ORTHOPEDICS**

EAR-NOSE-THROAT

LIGHT SOURCES

CAMERAS

SYSTEMS

SERVICES

ABOUT

ORTHOPEDICS  
Arthroscopes

**FLEXILUX II ARTHROSCOPES**

Rigid endoscope with rod lens system;  
4.0 mm in diameter;  
compatible to system [Storz](#)



Item number	Endoscope Ø	Working length	Direction of view	Field of view
21.0003a	4.0 mm HDscope	175 mm	0°	wide angle
21.0008a	4.0 mm HDscope	175 mm	30°	wide angle
21.0101a	4.0 mm HDscope	175 mm	45°	wide angle
21.0011a	4.0 mm HDscope	175 mm	70°	wide angle

OEM PRODUCTS INFO

LAPAROSCOPY

UROLOGY

**ORTHOPEDICS**

EAR-NOSE-THROAT

LIGHT SOURCES

CAMERAS

SYSTEMS

SERVICES

ABOUT

# Arthroscopes Overview

Item number	Endoscope ø	Working length	Direction of view	Field of view
21.0617a	2.7 mm HDscope	187 mm	0°	standard
21.0619a	2.7 mm HDscope	187 mm	30°	standard
21.0621a	2.7 mm HDscope	187 mm	70°	standard
21.0003a	4.0 mm HDscope	175 mm	0°	wide angle
21.0008a	4.0 mm HDscope	175 mm	30°	wide angle
21.0101a	4.0 mm HDscope	175 mm	45°	wide angle
21.0011a	4.0 mm HDscope	175 mm	70°	wide angle

OEM PRODUCTS INFO

LAPAROSCOPY

UROLOGY

**ORTHOPEDICS**

EAR-NOSE-THROAT

LIGHT SOURCES

CAMERAS

SYSTEMS

SERVICES

ABOUT

**EXCELLENCE INSIDE**  
IN THE ENTIRE RANGE OF  
ENT PRODUCTS.



## EAR-NOSE-THROAT

Our sinuscopes convince with their image quality. They feature HD quality and fully support today's high definition cameras.



# Sinuscopes

## FLEXILUX II SINUSCOPES

Rigid endoscope with rod lens system;  
2.7 mm in diameter



Item number	Endoscope Ø	Working length	Direction of view	Field of view
31.0005a	2.7 mm HDscope	110 mm	0°	standard
31.0007a	2.7 mm HDscope	110 mm	30°	standard
31.0009a	2.7 mm HDscope	110 mm	70°	standard

OEM PRODUCTS INFO

LAPAROSCOPY

UROLOGY

ORTHOPEDICS

**EAR-NOSE-THROAT**

LIGHT SOURCES

CAMERAS

SYSTEMS

SERVICES

ABOUT

# Sinusscopes

## FLEXILUX II SINUSCOPES

Rigid endoscope with rod lens system;  
2.7 mm in diameter



Item number	Endoscope Ø	Working length	Direction of view	Field of view
31.0810a	2.7 mm HDscope	187 mm	0°	standard
31.0811a	2.7 mm HDscope	187 mm	30°	standard
31.0812a	2.7 mm HDscope	187 mm	70°	standard

OEM PRODUCTS INFO

LAPAROSCOPY

UROLOGY

ORTHOPEDICS

**EAR-NOSE-THROAT**

LIGHT SOURCES

CAMERAS

SYSTEMS

SERVICES

ABOUT

# Sinusscopes

## FLEXILUX II SINUSCOPES

Rigid endoscope with rod lens system;  
4.0 mm in diameter



Item number	Endoscope Ø	Working length	Direction of view	Field of view
31.0801a	4.0 mm HDscope	175 mm	0°	wide angle
31.0804a	4.0 mm HDscope	175 mm	30°	standard
31.0802a	4.0 mm HDscope	175 mm	30°	wide angle
31.0809a	4.0 mm HDscope	175 mm	45°	wide angle
31.0803a	4.0 mm HDscope	175 mm	70°	wide angle

OEM PRODUCTS INFO

LAPAROSCOPY

UROLOGY

ORTHOPEDICS

**EAR-NOSE-THROAT**

LIGHT SOURCES

CAMERAS

SYSTEMS

SERVICES

ABOUT

EAR-NOSE-THROAT  
Sinusscopes Overview

Item number	Endoscope Ø	Working length	Direction of view	Field of view
31.0005a	2.7 mm HDscope	110 mm	0°	standard
31.0007a	2.7 mm HDscope	110 mm	30°	standard
31.0009a	2.7 mm HDscope	110 mm	70°	standard
31.0810a	2.7 mm HDscope	187 mm	0°	standard
31.0811a	2.7 mm HDscope	187 mm	30°	standard
31.0812a	2.7 mm HDscope	187 mm	70°	standard
31.0801a	4.0 mm HDscope	175 mm	0°	wide angle
31.0804a	4.0 mm HDscope	175 mm	30°	standard
31.0802a	4.0 mm HDscope	175 mm	30°	wide angle
31.0809a	4.0 mm HDscope	175 mm	45°	wide angle
31.0803a	4.0 mm HDscope	175 mm	70°	wide angle

OEM PRODUCTS INFO

LAPAROSCOPY

UROLOGY

ORTHOPEDICS

**EAR-NOSE-THROAT**

LIGHT SOURCES

CAMERAS

SYSTEMS

SERVICES

ABOUT

**EXCELLENCE INSIDE**  
FOR A LONG PRODUCT LIFE CYCLE.



## LIGHT SOURCES

Light sources with long lasting LED technology are the natural successor to xenon light sources.

LED modules are almost maintenance-free and have a relatively long service life, which are the main advantages of these light sources.

We offer an LED light source with xenon-equivalent color rendering of CRI Ra > 90. All our light sources are approved according to medical standards and suitable for the use in the operating room.

## FLEXILUX 300 LED

### FLEXILUX 300 LED LIGHT SOURCE



#### EXCEPTIONALLY BRIGHT WITH HIGH COLOR RENDERING INDEX (CRI)

- High CRI of Ra >90
- Fully automatic light control via the MIS-Bus interface with FlexiVision 40 and 20 cameras
- Low noise level, virtually inaudible
- Type CF defibrillation-proof
- Multi-light-guide adapter for Storz, Wolf and Olympus light guides

Description	Item number
LED light source	05-0760led
<b>Technical Data</b>	
Illumination type	High power white light LED
Color rendering index (CRI)	CRI Ra > 90
Color temperature	5,600 K
Luminous flux	1,420 lm
Lifetime of the illuminant	> 30,000 h
Operation front panel	LCD Display with illuminated buttons
Standard compliance	IEC 60601-1
Electromagnetic compatibility	IEC/EN 60601-1-2
Directive compliance	CE-mark
Dimensions (W x H x D)	295 x 130 x 355 mm
Weight	8 kg
Supply voltage	100 – 240 V~, 50/60 Hz
Current consumption	1.6 – 0.6 A
Protection class acc. to IEC 60601-1	Protection class I
Degree of protection	IP21
Applied part as per IEC 60601-1	Type CF defibrillation-proof
Classification within the meaning of applicable EU guidelines	Class I medical device
Classification as per IEC/CISPR 11	Group 1 Class B

OEM PRODUCTS INFO

LAPAROSCOPY

UROLOGY

ORTHOPEDICS

EAR-NOSE-THROAT

LIGHT SOURCES

CAMERAS

SYSTEMS

SERVICES

ABOUT

# LIGHT SOURCES LIGHT GUIDES

## HIGHTRANS LIGHT GUIDES



Description	Length	Item number
fiber-Ø: 3.5 mm	2.3 m	05.0088l
fiber-Ø: 3.5 mm	3.0 m	05.0085l
fiber-Ø: 4.8 mm	2.3 m	05.0090l
fiber-Ø: 4.8 mm	3.0 m	05.0087l

## ROBUST LIGHT GUIDES

Strain relieved by kevlar and protected by a sturdy silicone tube, autoclavable, internal bending protection at the light source end, min. 5,000 V overvoltage protection.

Recommended for xenon light sources  $\geq 300$  W of third-party suppliers, which are not equipped with sufficient heat insulation, color code of handpiece orange:

Description	Length	Item number
fiber-Ø: 3.5 mm	2.3 m	05.0088l.ht
fiber-Ø: 3.5 mm	3.0 m	05.0085l.ht
fiber-Ø: 4.8 mm	2.3 m	05.0090l.ht

OEM PRODUCTS INFO

LAPAROSCOPY

UROLOGY

ORTHOPEDICS

EAR-NOSE-THROAT

LIGHT SOURCES

CAMERAS

SYSTEMS

SERVICES

ABOUT

# LIGHT SOURCES ADAPTERS

## LIGHT GUIDE ADAPTER



Light guide –  
light source side

To connect the light guide, light source side  
with light sources of other manufacturers

	Description	Item number
	for Storz light source <sup>1)</sup>	05.0100z
	for Wolf light source <sup>1)</sup>	05.0102b
	for ACMI light source (Circon / Stryker)	05.0106c
	for Olympus light source <sup>1)</sup>	05.0101o

1) compatible to light source LED 300

OEM PRODUCTS INFO

LAPAROSCOPY

UROLOGY

ORTHOPEDICS

EAR-NOSE-THROAT

**LIGHT SOURCES**

CAMERAS

SYSTEMS

SERVICES

ABOUT



# LIGHT SOURCES ADAPTERS

## LIGHT GUIDE ADAPTER



Light guide – endoscope side




To connect the light guide, endoscope side with endoscopes of other manufacturers





Endoscope – light guide connector

To connect light guides of other manufacturer to the endoscope

Without adapter all endoscopes are compatible to ACMI (Circon, Stryker, Olympus)

	Description	Item number
	Light guide adapter compatible to Storz connection	05.0108z
	Light guide adapter compatible to Wolf connection	05.0110b
	Light guide adapter compatible to ACMI (Circon / Stryker) connection	05.0112c

	Description	Item number
	Adapter for Storz light guide <sup>1)</sup>	05.0114z
	Adapter for Wolf light guide <sup>1)</sup>	05.0116b

1) included in delivery of an endoscope

### OEM PRODUCTS INFO

#### LAPAROSCOPY

#### UROLOGY

#### ORTHOPEDICS

#### EAR-NOSE-THROAT

### LIGHT SOURCES

#### CAMERAS

#### SYSTEMS

#### SERVICES

#### ABOUT

**EXCELLENCE INSIDE**  
MEANS NO COMPROMISE IN  
IMAGE QUALITY.



**4K**  
ULTRA HD

**1080p**  
FULL HD

## CAMERAS

In order to always be in the position to offer users the best possible image quality in the respective applications, we permanently rely on new technologies and developments.

Within our FlexiVision series we offer camera controllers in 4K UHD and in Full HD with different setups and configuration possibilities.

In addition to the Full HD 1CMOS camera heads we offer a 3CMOS zoom camera head. For use with the 4K UHD controller, we recommend the specially developed 4K UHD zoom camera head.

# FLEXIVISION 40

## FLEXIVISION 40 4K UHD CAMERA



### CENTERPIECE OF A HIGH-END 4K UHD ENDOSCOPIC CAMERA SYSTEM

- 4K UHD imaging (3840 x 2160, 50/60p)
- USB image/video capture (Full HD)
- Picture out of picture modus at use of video algorithms
- Video algorithms: color shift 1 + 2, selective color enhancement, smoke reduction, grid removal
- Automatic light control via MIS-Bus interface with FlexiLux 300 LED light source
- Multi-connectivity  
4K UHD: camera head 4K UHD zoom  
Full HD: camera head full HD zoom, full HD 90° angled
- Also available with NIR FI function. Please see page 45 ff.

Description	Item number
Controller 4K UHD USB Image/Video Capture	95-3980
<b>Technical Data Controller</b>	
Operation control panel	On-Off, menu, white balance, photo, video
Video outputs 4K UHD	1 x 4K/UHD 3840 x 2160p (4 x 3G-SDI) 2 x 3G-SDI, 2 x DVI
Interfaces	1 x MIS-Bus 2 x Remote IN (e.g. foot switch) 2 x Remote OUT (e.g. recorder, printer) 2 x USB (e.g. image/video capture - front, keyboard - back)
Dimensions (W x H x D)/Weight	295 x 129,5 x 355 mm/approx. 7 kg

OEM PRODUCTS INFO

LAPAROSCOPY

UROLOGY

ORTHOPEDICS

EAR-NOSE-THROAT

LIGHT SOURCES

CAMERAS

SYSTEMS

SERVICES

ABOUT

CAMERAS

**FLEXIVISION 40**

**FLEXIVISION 40 4K UHD CAMERA**



**System**

Standard compliance	IEC 60601-1
Electromagnetic compatibility	IEC/EN 60601-1-2
Directive compliance	CE-mark
Supply voltage	100 - 240 V~, 50/60 Hz
Current consumption	1.2 - 0.5 A
Protection class acc. to IEC 60601-1	Protection class I
Degree of protection	IP21
Classification within the meaning of applicable EU guidelines	Class I medical device
Classification as per IEC/CISPR 11	Group 1 Class A

OEM PRODUCTS INFO

LAPAROSCOPY

UROLOGY

ORTHOPEDICS

EAR-NOSE-THROAT

LIGHT SOURCES

**CAMERAS**

SYSTEMS

SERVICES

ABOUT

## FLEXIVISION CAMERA HEAD

### FLEXIVISION 40 CAMERA HEAD 4K UHD



#### EXCEPTIONALLY ERGONOMIC 4K UHD HEAD

- 4K UHD imaging (3840 x 2160, 50/60p)
- BT2020, large UHD color space
- 3CMOS sensor
- 2x optical zoom (plus 3x digital zoom)
- Unique lockable endoscope connection
- STERRAD compatible
- Compatible to FlexiVision 40 camera controller

Description	Item number
Camera Head 4K UHD zoom, Parfocal zoom f = 14.25 - 28 mm	95-3905
<b>Technical Data Camera Head</b>	
Image sensor	3 x 1/3" CMOS, progressive scan
Function buttons	3 individually programmable and illuminated buttons
Endocoupler	For standard ocular, lockable
Parfocal zoom	f = 14.25 - 28 mm
Waterproof connection plug	Yes
Lockable endoscope connection	Yes
Length camera cable	3.5 m
Weight camera head (without cable)	330 g
Dimensions incl. endocoupler (without cable)	39 x 40 x 134 mm
Applied part as per IEC 60601-1	Type CF defibrillation-proof

OEM PRODUCTS INFO

LAPAROSCOPY

UROLOGY

ORTHOPEDICS

EAR-NOSE-THROAT

LIGHT SOURCES

**CAMERAS**

SYSTEMS

SERVICES

ABOUT

CAMERAS

**FLEXIVISION 20**

**FLEXIVISION 20 FULL HD CAMERAS**



**CAMERA CONTROLLER PAR EXCELLENCE**

- Full HD USB image/video capture
- Video algorithms: color shift 1+2, selective color enhancement, smoke reduction, grid removal
- Picture out of picture modus at use of video algorithms
- Automatic light control via MIS-Bus interface with FlexiLux 300 LED light source
- Multi-connectivity  
Full HD: camera head full HD 3CMOS zoom, full HD zoom, full HD 90° angled
- Also available with NIR FI function.  
Please see page 45 ff.

Description	Item number
Controller Full HD USB Image/Video Capture	95-3970
<b>Technical Data Controller</b>	
Operation control panel	On-Off, menu, white balance, photo, video (95-3970)
Video outputs Full HD	2 x 3G-SDI, 2 x DVI
Interfaces	1 x MIS-Bus 2 x Remote IN (e.g. foot switch) 2 x Remote OUT (e.g. recorder, printer) 2 x USB (e.g. image/video capture - front, keyboard - back)
Dimensions (W x H x D)/Weight	295 x 100 x 355 mm/ approx. 5.7 kg

OEM PRODUCTS INFO

LAPAROSCOPY

UROLOGY

ORTHOPEDICS

EAR-NOSE-THROAT

LIGHT SOURCES

**CAMERAS**

SYSTEMS

SERVICES

ABOUT

CAMERAS

**FLEXIVISION 20**

**FLEXIVISION 20 FULL HD CAMERAS**



**System**

Standard compliance	IEC 60601-1
Electromagnetic compatibility	IEC/EN 60601-1-2
Directive compliance	CE-mark
Supply voltage	100 - 240 V~, 50/60 Hz
Current consumption	0.8 - 0.4 A
Protection class as per IEC 60601-1	Protection class I
Degree of protection	IP21
Classification within the meaning of applicable EU guidelines	Class I medical device
Classification as per IEC/CISPR 11	Group 1 Class B

OEM PRODUCTS INFO

LAPAROSCOPY

UROLOGY

ORTHOPEDICS

EAR-NOSE-THROAT

LIGHT SOURCES

**CAMERAS**

SYSTEMS

SERVICES

ABOUT

## FLEXIVISION CAMERA HEAD

### FLEXIVISION CAMERA HEAD FULL HD 3CMOS



#### DESIGNED FOR DEMANDING APPLICATIONS IN ENDOSCOPIC DISCIPLINES

- 3 x 1/3" CMOS image sensor, progressive scan
- 2 x optical zoom (plus 3 x digital zoom)
- Best color reproduction due to 3CMOS sensor design
- STERRAD compatible
- Compatible to FlexiVision 20 camera controller

Description	Item number
Camera Head Full HD 3CMOS zoom, Parfocal zoom f = 14.25 – 28 mm	95-3906
<b>Technical Data Camera Head</b>	
Image sensor	3 x 1/3" CMOS, progressive scan
Sensor resolution	3 x 1920 x 1080, 50 / 60p
Function buttons	3 individually programmable and illuminated buttons
Endocoupler	For standard ocular, lockable
Parfocal zoom	f = 14.25 - 28 mm
Applied part as per IEC 60601-1	Type CF defibrillation-proof
Waterproof connection plug	Yes
Length camera cable	3.5 m
Weight camera head (without cable)	330 g
Dimensions incl. endocoupler (W x H x D)	39 x 40 x 134 mm

#### OEM PRODUCTS INFO

#### LAPAROSCOPY

#### UROLOGY

#### ORTHOPEDICS

#### EAR-NOSE-THROAT

#### LIGHT SOURCES

#### CAMERAS

#### SYSTEMS

#### SERVICES

#### ABOUT



## FLEXIVISION CAMERA HEAD

### FLEXIVISION CAMERA HEAD FULL HD AUTOCLAVABLE



#### DESIGNED FOR NEEDS IN AUTOCLAVABILITY

- 1/3" CMOS image sensor, progressive scan
- 2 x optical zoom
- Ergonomic design, small and compact
- Autoclavable
- Detachable autoclavable endocoupler
- Compatible to FlexiVision 40 and 20 camera controller

#### Description

Camera Head Full HD autoclavable

Autoclavable HD Zoom Coupler Type EZ241

(95-3907: Number for logistics only, printed on packaging label, consisting of 95-3904 and 2206055)

#### Item number

95-3904  
(w/o endocoupler)

2206055

#### Technical Data Camera Head

Image sensor	1 x 1/3" CMOS, progressive scan
Sensor resolution	1920 x 1080, 50/60p
Function buttons	3 individually programmable buttons
Endocoupler connection type	C-Mount
Length camera cable	3.5 m
Weight camera head (without endocoupler and cable)	230 g

#### Technical Data Endocoupler

Focal length f'	14 to 29 mm
Maximum weight	160 g
Interface endoscope	Quick-release coupling for endoscopes with DIN 58105 eyepiece

#### OEM PRODUCTS INFO

LAPAROSCOPY

UROLOGY

ORTHOPEDICS

EAR-NOSE-THROAT

LIGHT SOURCES

**CAMERAS**

SYSTEMS

SERVICES

ABOUT

## FLEXIVISION CAMERA HEAD

### FLEXIVISION CAMERA HEAD FULL HD AUTOCLAVABLE



#### DESIGNED FOR NEEDS IN AUTOCLAVABILITY

- 1/3" CMOS image sensor, progressive scan
- 2 x optical zoom
- Ergonomic design, small and compact
- Autoclavable
- Detachable autoclavable endocoupler
- Compatible to FlexiVision 40 and 20 camera controller

Description	Item number
Camera Head Full HD autoclavable	95-3904 (w/o endocoupler)
Zoom Lens F 13 to 29 mm	85261504

(95-3914: Number for logistics only, printed on packaging label, consisting of 95-3904 and 85261504)

#### Technical Data Camera Head

Image sensor	1 x 1/3" CMOS, progressive scan
Sensor resolution	1920 x 1080, 50/60p
Function buttons	3 individually programmable buttons
Endocoupler connection type	C-Mount
Length camera cable	3.5 m
Weight camera head (without endocoupler and cable)	230 g

#### Technical Data Endocoupler

Focal length f'	13 to 29 mm
Maximum weight	150 g
Interface endoscope	Snap-on mechanism

#### OEM PRODUCTS INFO

#### LAPAROSCOPY

#### UROLOGY

#### ORTHOPEDICS

#### EAR-NOSE-THROAT

#### LIGHT SOURCES

#### CAMERAS

#### SYSTEMS

#### SERVICES

#### ABOUT

CAMERAS

**FLEXIVISION 10**

**FLEXIVISION 10 FULL HD CAMERAS**



**CAMERA CONTROLLER FOR BEST IN CLASS IMAGE QUALITY**

- Full HD USB image capture
- Video algorithms: selective color enhancement, smoke reduction, grid removal
- Multi-connectivity
- MIS-Bus to connect to FlexiLux light sources for control of light source by pressing a button on the camera head
- Multi-connectivity  
Full HD: full HD zoom, full HD 90° angled

**Description**

Controller Full HD USB Image Capture

**Item number**

95-3930

**Technical Data Controller**

Video outputs

High definition: 2 x DVI,  
2 x HD-SDI

Interfaces

1 x MIS-Bus  
2 x Remote IN, 2 x Remote OUT  
2 x USB

Dimensions (W x H x D)/Weight

295 x 100 x 355 mm/4.39 kg

**System**

Standard compliance

IEC 60601-1

Directive compliance

CE-mark

Voltage

100 - 240 V~, 50/60 Hz

Current consumption

0.8 - 0.4 A

Protection class acc. to IEC 60601-1

Protection class I

Protection type

IP21

Classification within the meaning of applicable EU guidelines

Class I medical device

**OEM PRODUCTS INFO**

**LAPAROSCOPY**

**UROLOGY**

**ORTHOPEDICS**

**EAR-NOSE-THROAT**

**LIGHT SOURCES**

**CAMERAS**

**SYSTEMS**

**SERVICES**

**ABOUT**

## FLEXIVISION CAMERA HEADS

### FLEXIVISION HD CAMERA HEADS



### FOR ENDOSCOPIC APPLICATIONS

- 1/3" CMOS image sensor, progressive scan
- 3x digital zoom
- Three individual programmable and illuminated buttons
- For standard eyepiece, with lock to secure the endoscope in place
- Compatible to FlexiVision 10, 20 and 40 camera controller

Description	Item number
Camera Head Full HD zoom, Parfocal zoom f = 14.25 - 28 mm	95-3901
Camera Head Full HD 90° angled, f = 14.25 mm	95-3903

### Technical Data Camera Heads

Image sensor	1/3" CMOS progressive scan
Image resolution lines	1920 x 1080 pixels, 50/60p
Function buttons	3 individually programmable and illuminated buttons
Endocoupler	For standard ocular, lockable
Zoom	3 x digital zoom 2 x optical zoom (95-3901)
Protection type	IPX7
Applied part as per IEC 60601-1	CF
Length camera cable	3.5 m
Weight camera head (without cable)	Zoom: 210 g 90° angled: 190 g
Dimensions incl. endocoupler (W x H x D)	Zoom: 39 x 40 x 134 mm 90° angled: 57 x 52 x 165 mm

### OEM PRODUCTS INFO

### LAPAROSCOPY

### UROLOGY

### ORTHOPEDICS

### EAR-NOSE-THROAT

### LIGHT SOURCES

### CAMERAS

### SYSTEMS

### SERVICES

### ABOUT

**EXCELLENCE INSIDE**  
IN FLUORESCENCE IMAGING.



## NEAR-INFRARED FLUORESCENCE IMAGING (NIR FI)

Fluorescence imaging technology has the potential to change the way many surgical procedures are performed.

Within our FlexiVision camera family we offer a straightforward NIR FI system, consisting of either a 4K UHD or a Full HD controller, a zoom camera head, appropriate 10mm laparoscopes, a LED laser light source and light guide.



# FLEXILUX NIR FI

## FLEXILUX NIR FI LAPAROSCOPES

Rigid endoscope with rod lens system, optimized for the use with NIR FI camera systems; 10.0 mm in diameter



Item number	Endoscope Ø	Working length	Direction of view	Field of view
11-0131nir	10.0 mm NIRScope	344 mm	0°	wide angle
11-0143nir	10.0 mm NIRScope	344 mm	30°	wide angle



Fluorescence imaging only in combination with other NIR FI products (see pages 45-54)

OEM PRODUCTS INFO

LAPAROSCOPY

UROLOGY

ORTHOPEDICS

EAR-NOSE-THROAT

LIGHT SOURCES

CAMERAS

**SYSTEMS**

SERVICES

ABOUT

# FLEXIVISION NIR FI

## FLEXIVISION NIR FI CCU 4K UHD



### CENTERPIECE OF A HIGH-END ENDOSCOPIC NIR FI SYSTEM

- NIR FI – near-infrared fluorescence imaging
  - green mode
  - contrast mode
  - intensity mode
- Picture out of picture mode (PoP)
- NIR FI light source control
- 4K UHD imaging (3840 x 2160, 50 / 60p)
- BT2020, large 4K UHD color space
- Video algorithms for white light imaging: color shift, selective color enhancement, smoke reduction, grid removal
- Foot switch (optional) to control camera functionality
- Multi-connectivity
  - NIR FI: camera head full HD zoom
  - 4K UHD: camera head 4K UHD zoom
  - Full HD: camera head full HD zoom, full HD 90° angled

Description	Item number
NIR FI CCU 4K UHD	95-3985
<b>Technical Data Controller</b>	
Fluorescence imaging modes	NIR FI Green (Green fluorescence signal overlaid onto grayscale white light image)  NIR FI Contrast (White fluorescence signal with black background)  NIR FI Intensity (Multicolored fluorescence signal overlaid onto grayscale white light image)
Operation control panel	On-Off, menu, white balance, photo, video
Video outputs 4K UHD	1 x 4K/UHD 3840 x 2160p (4 x 3G - SDI) 4 x 3G - SDI, 2 x DVI
Interfaces	1 x MIS-Bus 2 x Remote IN (e.g. foot switch) 2 x Remote OUT (e.g. recorder, printer) 2 x USB (e.g. image/video capture - front, keyboard - back)
Dimensions (W x H x D)/Weight	295 x 129.5 x 355 mm / approx. 7 kg



Fluorescence imaging only in combination with other NIR FI products (see pages 45-54)

OEM PRODUCTS INFO

LAPAROSCOPY

UROLOGY

ORTHOPEDICS

EAR-NOSE-THROAT

LIGHT SOURCES

CAMERAS

**SYSTEMS**

SERVICES

ABOUT



# FLEXIVISION NIR FI

## FLEXIVISION NIR FI CCU 4K UHD



### System

Standard compliance	IEC 60601-1
Electromagnetic compatibility	IEC/EN 60601-1-2
Directive compliance	CE-mark
Supply voltage	100 - 240 V~, 50/60 Hz
Current consumption	1.2 - 0.5 A
Protection class acc. to IEC 60601-1	Protection class I
Degree of protection	IP21
Classification within the meaning of applicable EU guidelines	Class I medical device
Classification as per IEC/CISPR 11	Group 1 Class A



Fluorescence imaging only in combination with other NIR FI products (see pages 45-54)

OEM PRODUCTS INFO

LAPAROSCOPY

UROLOGY

ORTHOPEDICS

EAR-NOSE-THROAT

LIGHT SOURCES

CAMERAS

**SYSTEMS**

SERVICES

ABOUT



# FLEXIVISION NIR FI

## FLEXIVISION NIR FI CCU FULL HD



### NIR FI CONTROLLER PAR EXCELLENCE

- NIR FI – near-infrared fluorescence imaging
  - green mode
  - contrast mode
  - intensity mode
- Picture out of picture mode (PoP)
- NIR FI light source control
- Video algorithms for white light imaging: color shift, selective color enhancement, smoke reduction, grid removal
- Foot switch (optional) to control camera functionality
- Multi-connectivity
  - NIR FI: camera head full HD zoom
  - Full HD: camera head full HD 3CMOS zoom, full HD zoom, full HD 90° angled

Description	Item number
NIR FI CCU Full HD	95-3981
<b>Technical Data Controller</b>	
Fluorescence imaging modes	NIR FI Green (Green fluorescence signal overlaid onto grayscale white light image)  NIR FI Contrast (White fluorescence signal with black background)  NIR FI Intensity (Multicolored fluorescence signal overlaid onto grayscale white light image)
Operation control panel	On-Off, menu, white balance, photo, video
Video outputs Full HD	2 x 3G - SDI, 2 x DVI
Interfaces	1 x MIS-Bus 2 x Remote IN (e.g. foot switch) 2 x Remote OUT (e.g. recorder, printer) 2 x USB (e.g. image/video capture - front, keyboard - back)
Dimensions (W x H x D)/Weight	295 x 100 x 355 mm / approx. 5.7 kg



Fluorescence imaging only in combination with other NIR FI products (see pages 45-54)

OEM PRODUCTS INFO

LAPAROSCOPY

UROLOGY

ORTHOPEDICS

EAR-NOSE-THROAT

LIGHT SOURCES

CAMERAS

SYSTEMS

SERVICES

ABOUT

# FLEXIVISION NIR FI

## FLEXIVISION NIR FI CCU FULL HD



### System

Standard compliance	IEC 60601-1
Electromagnetic compatibility	IEC/EN 60601-1-2
Directive compliance	CE-mark
Supply voltage	100 - 240 V~, 50/60 Hz
Current consumption	0.8 - 0.4 A
Protection class acc. to IEC 60601-1	Protection class I
Degree of protection	IP21
Classification within the meaning of applicable EU guidelines	Class I medical device
Classification as per IEC/CISPR 11	Group 1 Class A



Fluorescence imaging only in combination with other NIR FI products (see pages 45-54)

OEM PRODUCTS INFO

LAPAROSCOPY

UROLOGY

ORTHOPEDICS

EAR-NOSE-THROAT

LIGHT SOURCES

CAMERAS

**SYSTEMS**

SERVICES

ABOUT

# FLEXIVISION NIR FI

## FLEXIVISION NIR FI CAMERA HEAD FULL HD ZOOM



### DESIGNED FOR NIR FI APPLICATIONS

- NIR FI – near-infrared fluorescence imaging
  - Sensitive in the visible and near-infrared spectrum
  - Powerful sensor with improved NIR sensitivity
  - Switch to NIR FI imaging modes by single press of a button
  - Suitable for white light imaging without any limitations
- Lockable endoscope connection
- Low temperature sterilization
- Compatible to FlexiVision NIR FI CCU 4K UHD and NIR FI CCU full HD

### Description

NIR FI Camera Head Full HD Zoom

### Item number

95-3908

### Technical Data Camera Head

Image sensor	1/3" CMOS, progressive scan
Sensor resolution	1920 x 1080, 50/60p
Optical transmission	Visible and near-infrared spectrum
Function buttons	3 individually programmable and illuminated buttons
Endocoupler	For standard ocular, lockable
Parfocal zoom	f = 14.25 - 28 mm
Applied part as per IEC 60601-1	Type CF defibrillation-proof
Waterproof connection plug	Yes
Length camera cable	3.5 m
Weight camera head (without cable)	330 g



Fluorescence imaging only in combination with other NIR FI products (see pages 45-54)

OEM PRODUCTS INFO

LAPAROSCOPY

UROLOGY

ORTHOPEDICS

EAR-NOSE-THROAT

LIGHT SOURCES

CAMERAS

**SYSTEMS**

SERVICES

ABOUT

# FLEXILUX NIR FI

## FLEXILUX NIR FI LED LIGHT SOURCE



### OPTIMAL ICG EXCITATION FOR NIR FI APPLICATIONS – COMBINED WITH HIGH CRI FOR WHITE LIGHT OPERATION

- 805 nm NIR laser for NIR FI applications
- CRI > 90 for best color rendering in white light modus
- Very silent device, virtually inaudible
- Fully automatic light control by NIR and FlexiVision 40 and 20 cameras through MIS-Bus interface
- Type CF defibrillation-proof
- Multi-light-guide adapter to Storz, Wolf and Olympus light guides during white light operation

#### Description

NIR FI LED Light source

#### Item number

05-0761nir

#### Technical Data Light Source

##### WHITE LIGHT OPERATION

Illumination type	High power white light LED
Color Rendering Index	CRI Ra > 90
Color temperature	5,600 K
Luminous flux	1,420 lm
Lifetime of the illuminant	> 30,000 h

##### LASER OPERATION

Laser wavelength	805 nm (NIR)
Maximum laser output	77 mW
Laser aperture for NIR radiation emission	Light guide end and endoscope tip
Laser Class as per IEC60825-1	Class 3R (light guide end) Class 1M (endoscope tip)



Fluorescence imaging only in combination with other NIR FI products (see pages 45-54)

OEM PRODUCTS INFO

LAPAROSCOPY

UROLOGY

ORTHOPEDICS

EAR-NOSE-THROAT

LIGHT SOURCES

CAMERAS

**SYSTEMS**

SERVICES

ABOUT

# FLEXILUX NIR FI

## FLEXILUX NIR FI LED LIGHT SOURCE



### TECHNICAL DATA LIGHT SOURCE

#### LIGHT SOURCE IN GENERAL

Operation control panel	LCD Display with illuminated buttons
Standard compliance	IEC 60601-1
Electromagnetic compatibility	IEC/EN 60601-1-2
Directive compliance	CE-mark
Dimensions	295 x 130 x 355 mm (W x H x D)
Weight	8 kg
Supply voltage	100 - 240 V ~ 50/60 Hz
Current consumption	1.6 - 0.6 A
Degree of protection	IP 21
Appliance class as per IEC 60601-1	Class I
Classification as per IEC/CISPR 11	Group 1, Class A
Applied part as per IEC 60601-1	Type CF defibrillation-proof



Fluorescence imaging only in combination with other NIR FI products (see pages 45-54)

OEM PRODUCTS INFO

LAPAROSCOPY

UROLOGY

ORTHOPEDICS

EAR-NOSE-THROAT

LIGHT SOURCES

CAMERAS

**SYSTEMS**

SERVICES

ABOUT

# NIR FI LIGHT GUIDE

## NIR FI LIGHT GUIDE



### ROBUST NIR FI LIGHT GUIDE

- Specified equipment for NIR laser activation
- Class 1M laser output at distal end (endoscope tip)
- Light Guide Adapter - endoscope side. Please see page 33.

#### Description

NIR FI Light Guide 4.8 mm x 3000 mm

#### Item number

05-0094I-nir

#### Technical Data Light Guide

Length	3.000 mm
Active diameter	4.8 mm
Classification within the meaning of applicable EU guidelines	Class I medical device
Applied part as per IEC 60601-1	CF



Fluorescence imaging only in combination with other NIR FI products (see pages 45-54)

OEM PRODUCTS INFO

LAPAROSCOPY

UROLOGY

ORTHOPEDICS

EAR-NOSE-THROAT

LIGHT SOURCES

CAMERAS

**SYSTEMS**

SERVICES

ABOUT

**ACCESSORIES**



**QUALITY ACCESSORIES FOR THE ENDOSCOPY CAMERA RANGE**

- Selected compatible accessories to complement your camera range

**CAMERA CABLE**

Description	Item number
USB Keyboard, German Layout	PS00510
USB Keyboard, US Layout	PS00511
Foot Switch 1 pole, Momentary mono jack plug with IPX7	6226-ACAA-BZZZ-002

Description	Item number
MIS-Bus cable, 0.75 m	A059584
MIS-Bus cable, 2.25 m	A057635
DVI cable, 2 m	A059579
3.5 mm jack plug cable, 1.2 m	A056998
Coaxial cable, 2 m	BNC-BNC.2

**OEM PRODUCTS INFO**

**LAPAROSCOPY**

**UROLOGY**

**ORTHOPEDICS**

**EAR-NOSE-THROAT**

**LIGHT SOURCES**

**CAMERAS**

**SYSTEMS**

**SERVICES**

**ABOUT**

# FLEXIVISION PRODUCT OVERVIEW

## FLEXIVISION COMPATIBILITY

	<b>95-3985 *</b> NIR FI CCU 4K UHD	<b>95-3980</b> Controller 4K UHD USB Image Video Capture	<b>95-3981 *</b> NIR FI CCU Full HD	<b>95-3970</b> Controller Full HD USB Image/Video Capture	<b>95-3930</b> Controller Full HD USB Image Capture
<b>95-3905</b> Camera Head 4K UHD Zoom	✓	✓	-	-	-
<b>95-3906</b> Camera Head Full HD 3CMOS zoom	-	-	✓	✓	-
<b>95-3901</b> Camera Head Full HD zoom	✓	✓	✓	✓	✓
<b>95-3903</b> Camera Head Full HD 90° angled	✓	✓	✓	✓	✓
<b>95-3904</b> Camera Head Full HD auto- clavable (w/o endo- coupler)	✓	✓	✓	✓	-
<b>95-3908 *</b> NIR FI Camera Head Full HD Zoom	✓	-	✓	-	-

\* Fluorescence imaging only in combination with other NIR FI products (see pages 45-54)

OEM PRODUCTS INFO

LAPAROSCOPY

UROLOGY

ORTHOPEDICS

EAR-NOSE-THROAT

LIGHT SOURCES

**CAMERAS**

SYSTEMS








SERVICES

ABOUT



CAMERAS  
POWER CORDS

POWER CORDS

	Description	Item number
	Power Cord Euro CEE 7/7	05.0700r.cord.eu
	Power Cord UK BS 1363	05.0700r.cord.uk
	Power Cord Japan JIS 8303	05.0700r.cord.jap
	Power Cord India / Africa BS 546	05.0700r.cord.ia
	Power Cord USA hospital grade	zul.medizin.usa
	Power Cord China GB 2099.1	05.0700r.cord.chi
	Power Cord Brazil	05.0700r.cord.br

OEM PRODUCTS INFO

LAPAROSCOPY

UROLOGY

ORTHOPEDICS

EAR-NOSE-THROAT

LIGHT SOURCES

**CAMERAS**

SYSTEMS

SERVICES

ABOUT

**EXCELLENCE INSIDE**  
MEANS LOCAL SUPPORT  
WHEN YOU NEED IT.

#### GLOBAL CUSTOMER CARE AND TECHNICAL SERVICES.

Your needs are our focus and the service concepts we develop are centered around this. Through our global service network, we offer local support in your language, guaranteeing the swift and reliable performance of services in line with local pricing structures.

We use original parts for repairs. Function and safety are tested by using state-of-the-art technologies, such as optical measuring stations, helium leak test systems, and electrical safety testing and measurement equipment to DIN / ISO standards. We regularly audit our own service centers, ensuring compliance with internationally uniform quality standards.

For our OEM products, we provide you with standardized service concepts that you can access immediately. In this case, not only do we service and repair the devices manufactured by us, we also offer you a replacement service for endoscopes from other manufacturers.



## TECHNICAL SERVICES

Our various repair service programs show our high flexibility and competence in repairs of endoscopes and electrical devices within the visualization chain. Our service departments are preparing detailed failure analyzes and are issuing quotes for repairs, so you can keep an eye on your costs.

The exchange programs cover practically all standard endoscopes for minimally invasive surgeries which can serve as an interesting option for higher service volumes. As a manufacturer, we have fast delivery and production processes, and this enables us to provide the required spare parts at the right time and in the required place. This enables us also to offer our replacement services at a very favorable cost-benefit ratio.

Our service professionals use their knowledge and creativity to either offer a standard model or to develop a tailor-made service model that we create in close cooperation with you. Tailor-made services we develop depending on your requirements and this may start already at an early stage in the product development phase.

OEM PRODUCTS INFO

LAPAROSCOPY

UROLOGY

ORTHOPEDICS

EAR-NOSE-THROAT

LIGHT SOURCES

CAMERAS

SYSTEMS

**SERVICES**

ABOUT



AGS-TECH Inc.  
Phone: +1-505-550-6501 and +1-505-565-5102  
Fax: +1-505-814-5778  
Email: [sales@agstech.net](mailto:sales@agstech.net)  
Web: <http://www.agstech.net>



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MEDICAL ENDOSCOPY