

FIG. 2

ILLUMINATION

Portable Cold Light Projector 20 Watt/8 Volt

Battery operation, rechargeable

Special features:

- Small, easy-to-transport unit
- Powerful light source
- Quick change of battery possible with plug-in connection
- Rechargeable batteries

Specifications:

Lamp type:	Halogen reflector lamp, 20 W/8 V
Dimensions:	110 x 200 x 200 mm (w x h x d including handle)
Weight:	3.1 kg
Operating time:	maximum approx. 2 hours
Certified to:	CE, protection class 1



81483 N	Cold Light Projector , 20 Watt/8 Volt, power supply: 8 VDC/3.8 A including:
81483 LN	Spare Lamp Module , with Halogen reflector lamp 20 W/8 VDC
81483 BN	Battery Component , rechargeable, 8 VDC/3.8 A
81483 G	Carrying Strap , adjustable, length approx. 130 cm

Accessories:

81483 BS	Battery Charger , primary 230 V~/50 Hz, secondary 8 VDC/800 mA
81483 CS	Battery Charger , primary 110 V~/50 Hz, secondary 8 VDC/800 mA
81120	Spare Halogen Reflector Lamp , 20 W/8 VDC

Portable Cold Light Projector XENON 25

Special features:

- Small, easy-to-transport unit
- XENON light source
- Battery or mains operated

Specifications:

Lamp type:	XENON 24 W lamp
Dimensions:	120 x 200 x 170 mm (w x h x d including handle)
Weight:	3.8 kg
Operating time (battery):	approx. 1 hour
Certified to:	CE, protection class 1



Unit for Battery Operation

81 1305 01 Cold Light Projector XENON 25,
 24 W XENON lamp, power
 supply: 12 VDC

consisting of:

- | | |
|-------------------|--|
| 81 1305 20 | Lamp Component, with
XENON lamp 24 W |
| 81 1305 30 | Battery Component
rechargeable,
12 VDC/6.5 A |
| 81483 G | Carrying Strap,
adjustable,
length approx. 130 cm |

Accessories:

- | | |
|---------------------|---|
| 81 1305 32 | Battery Charger, primary 230 V~,
50/60 Hz, secondary 12 VDC/1 A |
| 81 1305 32 C | Battery Charger, primary 115 V~,
50/60 Hz, secondary 12 VDC/1 A |
| 81 1305 25 | Spare XENON Lamp 24 W |

Unit for Mains Operation

81 1305 02 Cold Light Projector XENON 25,
 24 W XENON lamp, power
 supply: 1230 V~

consisting of:

- | | |
|-------------------|---|
| 400 A | Mains Cord,
length 400 cm |
| 81 1305 20 | Lamp Component, with
XENON lamp 24 W |
| 81 1305 31 | Mains Adaptor,
115/230 V~, 50/60 Hz |
| 81483 G | Carrying Strap, adjustable,
length approx. 130 cm |

Accessories:

- | | |
|-------------------|---|
| 81 1305 25 | Spare XENON Lamp 24 W |
| 400 B | Mains Cord, US version,
length 400 cm |

Mains Adaptor **81 1305 31** can be subsequently exchanged for the battery component **81 1305 30**.

Cold Light Projector 150 Watt/220 Volt

Special features:

- High light intensity due to high-quality optical system
- Integrated carrier handle at the back of the unit
- Light intensity infinitely variable

Specifications:

Lamp type:	Halogen lamp, 150 Watt
Light intensity adjustment:	infinitely variable
Dimensions:	235 x 100 x 230 mm (w x h x d)
Weight:	3.2 kg
Certified to:	CE, protection class 1



81472 B	Cold Light Projector , 150 Watt, power supply: 230/240 V~, 50/60 Hz consisting of: 400 A Mains Cord , length 400 cm
81472 C	Cold Light Projector , 150 Watt, power supply: 110-120 V~, 50/60 Hz consisting of: 400 B Mains Cord , US version, length 400 cm
81103	Spare Halogen Lamp , 150 Watt, 15 Volt
1069500	Fuse , T 1.6 A (SB) for 81472 B
1069600	Fuse , T 3.15 A (SB) for 81472 C

Cold Light Projector TECHNO ARC™ 60 ^{NEW}

Special features:

- High light intensity through 50 Watt HiLux metal-halide arc lamp with optimized KARL STORZ condensor system
- World power supply
- Light intensity continuously adjustable from 0-100%
- Carry handle
- Waterproof

Specifications:

Lamp type:	Metal-halide arc lamp, 50 Watt
Color temperature:	6500 K
Light outlets:	1
Light intensity adjustment:	infinitely variable
Dimensions:	305 x 110 x 270 mm (w x h x d)
Weight:	3.8 kg
Certified to:	CE, protection class 1



- 81 131001 **TECHNO ARC™ 60**
consisting of:
81 131020 **Cold Light Projector TECHNO ARC™ 60**
400 A **Mains Cord**, length 400 cm
400 B **Mains Cord**, US standard, length 400 cm

Accessories:

- 81 131021 **Spare Lamp 50 Watt**

Cold Light Projector TECHNO LIGHT™ 270

Special features:

- High light intensity through 270 Watt HiLux metal-halide arc lamp with optimized KARL STORZ condensor system
- World power supply
- Light intensity continuously adjustable from 0-100%
- Integrated handle
- Shock-resistant plastic housing
- Waterproof

Specifications:

Lamp type:	metal-halide lamp 270 Watt
Color temperature:	approx. 5600 K
Light outlets:	1
Light intensity:	infinitely variable
Dimensions: (w x h x d)	with plastic housing 440 x 210 x 390 mm, without plastic housing 305 x 155 x 233 mm
Weight:	12.4 kg with plastic housing 6.7 kg without plastic housing
Certified to:	CE, protection class 1



81 1235 01 **TECHNO LIGHT™ 270**

consisting of:

- 81 1235 20 **Cold Light Projector TECHNO LIGHT™ 270**, power supply: 110-240 V~, 40-400 Hz, world power supply, with plastic housing
- 400 A **Mains Cord**, length 400 cm



81 1235 01 A

Optional:

- 81 1235 01 A **TECHNO LIGHT™ 270**, as above, but without plastic housing

Accessories:

- 81 1235 21 **Spare Lamp**, 270 Watt, 45 Volt
- 81487 UO **Universal Adaptor**, for connecting fiber glass light cables from the manufacturers **KARL STORZ**, Dyonics, CIRON-ACMI, Olympus, V. Müller, Eder, Stryker, KLI, Sparta, Richard Wolf
- 400 B **Mains Cord**, US version, length 400 cm



81487 UO

Cold Light Projector XENON NOVA® 300 ^{NEW}

Special features:

- High light intensity through 300 Watt metal-halide arc lamp with optimized KARL STORZ condensor system
- Light intensity continuously adjustable from 0-100%
- Waterproof
- World power supply

Specifications:

Lamp type:	Xenon lamp, 300 Watt
Color temperature:	6000 K
Light outlets:	1
Light intensity:	infinitely variable
Dimensions: (w x h x d)	with plastic housing 305 x 110 x 270 mm,
Weight:	4.0 kg
Certified to:	CE, protection class 1



20 1340 01	XENON NOVA® 300
	consisting of:
20 1340 20	Cold Light Projector XENON NOVA® 300
400 A	Mains Cord, length 400 cm
20 1340 80	Light Source Adaptor, including heat sink

Accessories:

20 1330 28	Spare Lamp, 300 Watt, XENON NOVA®
400 B	Mains Cord, US version, length 400 cm
20 1340 80	Light Source Adaptor, including heat sink

KARL STORZ Light Source Adaptors

A new light source adaptor was designed to provide better heat conductivity at the proximal end of light guide cables in conjunction with the 300 Watt Xenon light source.

The fibers on the light cable conduct the heat generated at the proximal end and, owing to their flexibility, allow the connection of all light cables on offer by KARL STORZ.

This adaptor will be a standard feature of the KARL STORZ Light Sources XENON 300 and XENON NOVA® 300 in future.

If required, the adaptor can be additionally fitted to all existing KARL STORZ 300 Watt Xenon Light Sources.



20 1340 80

20 1340 80 **Light Source Adaptor**, including heat sink

Light Cables

for Cold Light Projectors

Please note:

When selecting the appropriate fiber optic light guide for your endoscope, the correct fiber glass cross-section should be taken into consideration. The high illumination of endoscopes with, for example, large diameters is ineffective if fiber optic light cables with a smaller diameter are employed.



Fluid Light Cable, diameter 5 mm active

Fluid Light Cable in robust industrial design

Designed for heavy industrial use with extra robust bend protection, steel housing, protective metal sleeve for the quartz rod component of the light plug.

- 81594 SA **Fluid Light Cable**, tubing diameter 9 mm, length 350 cm
- 81594 SB **Same**, length 250 cm

The light in fluid light cables is not transmitted by glass fibers but rather through a special fluid contained in the light cable. Fluid light cables are stiffer than fiber optic light cables and should not bent to the same extent. The light transmitted is, however, much more intense than with fiber optic light cables of a comparable diameter. Fluid light cables are therefore considered more suitable for endoscopic photography and for film and television recordings.

Accessories:

- 81495 PW **Coupling Device**, for connecting 2 light cables

Fiber Optic Light Guide, suitable for all KARL STORZ endoscopes, active diameter 3.5 mm

- 81594 GU **Fiber Optic Light Cable**, length 350 cm
- 81594 GV **Same**, length 250 cm
- 81594 GW **Same**, length 180 cm
- 81594 GX **Same**, length 90 cm

Special Fiber Optic Light Guide for Borescopes with diameter 8 mm or more, active diameter 5 mm

If specially adjusted to the larger fiberglass 8 mm cross-section borescopes, a much higher luminous intensity is achieved. These light guides can be easily used with borescopes with a smaller diameter, however, do not achieve any additional benefits.

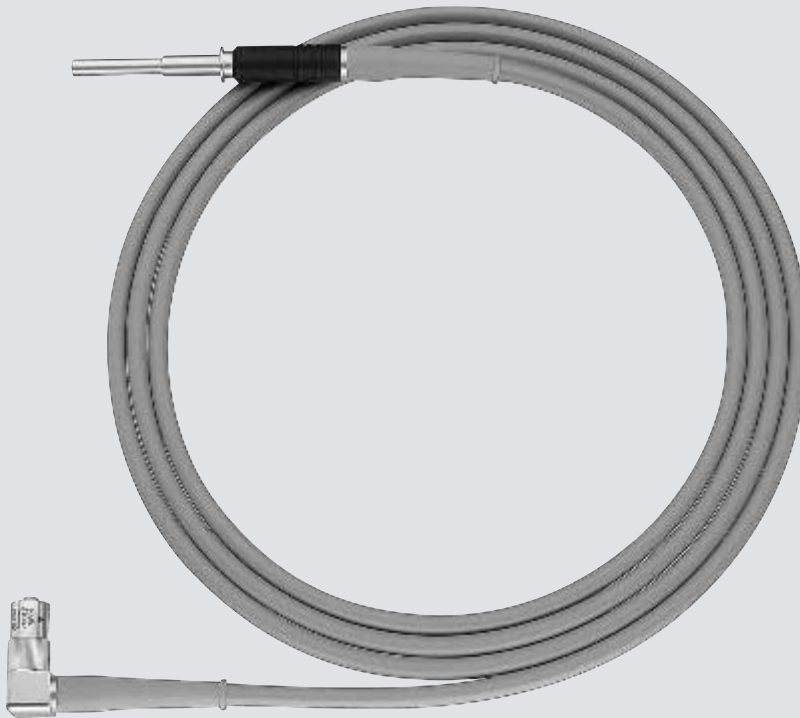
- 81594 GA **Fiber Optic Light Cable**, length 350 cm
- 81594 GB **Same**, length 250 cm
- 81594 GC **Same**, length 180 cm
- 81594 GD **Same**, length 90 cm

Light Cable with 90° Light Connection ^{NEW}

for Cold Light Projectors

The light connection was altered to 90° to facilitate an optimal connection between the endoscope and the light cable.

Fiber Optic Light Guide, suitable for all KARL STORZ endoscopes, active diameter 3.5 mm



- 81594 GV1 **Fiber Optic Light Cable**, length 250 cm
- 81591 GW1 **Same**, length 180 cm