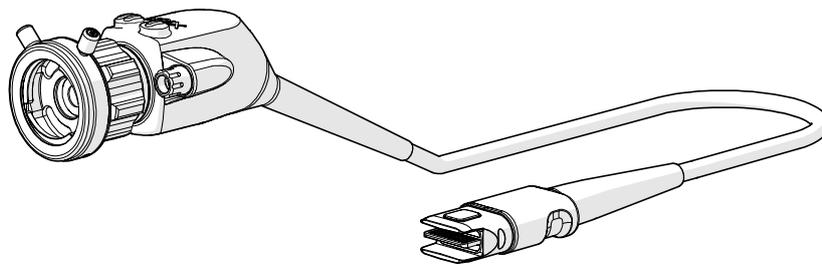


Spectar camera head HD



Instruction for Use



HD with Zoom Lens
HD with 22mm Lens (3 m cable)
HD with 22mm Lens (1,80 m cable)
HD with 22mm Lens and microphone

General

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5.4 Technical Data

Spectar camera head HD	22 mm (1.80 m cable)	22 mm (3 m cable)	22 mm with microphone	Zoom
Artikelnummer	329 208 001V	329 200 003	329 208 001	329 200 001
Optical data				
Lens	22 mm		16 - 32 mm	
Mechanical Data				
Dimensions (W x H x D)	112 x 52 x 45 mm	112 x 52 x 45 mm	112 x 52 x 56 mm	119 x 52 x 45 mm
Weight	403 g	494 g	429 g	522 g
Weight (without cables)	222 g	222 g	248 g	230 g
Cable length	1.80 m	3 m	1.80 m	3 m
Coupler	for standard eyecup			
Interfaces				
Plug connector	Spectar Connector			
Ambient conditions operation				
Relative humidity	30% to 90%, non-condensing			
Temperature	+10°C to +40°C			
Ambient conditions storage and transport				
Temperature	-10°C to +60°C			
Classification				
Application class	BF			
Type of protection	IP67			
Type of protection (microphone)	IP30			
Conformity	CE			
Norm conformity	IEC 60601-1; IEC 60601-1-2			

Table 2: Technical data camera head HD 22 mm (with 1.80 m and 3 m cable), HD 22 mm with microphone and HD Zoom

6.1.3 Application

1. Connect the device to the Camera Processor.
2. Switch on the Camera Processor and the associated devices (monitor, light source, etc.)
3. After switching on the Camera Processor, it is essential to first perform a white balance to match the camera to the colour temperature of the light present at the site of recording.

For instructions on how to proceed with these and other operating steps, please consult the user manual for your Camera Processor.

6.2 Docking Endoscopes



The coupler of the camera head is intended for docking endoscopes with DIN eyepiece. To connect an endoscope to the camera head, proceed as follows:

1. Squeeze the actuating lever of the clip coupling.
2. Insert the DIN eyecup (ocular funnel) of the endoscope.
3. Release the actuating lever of the camera head.

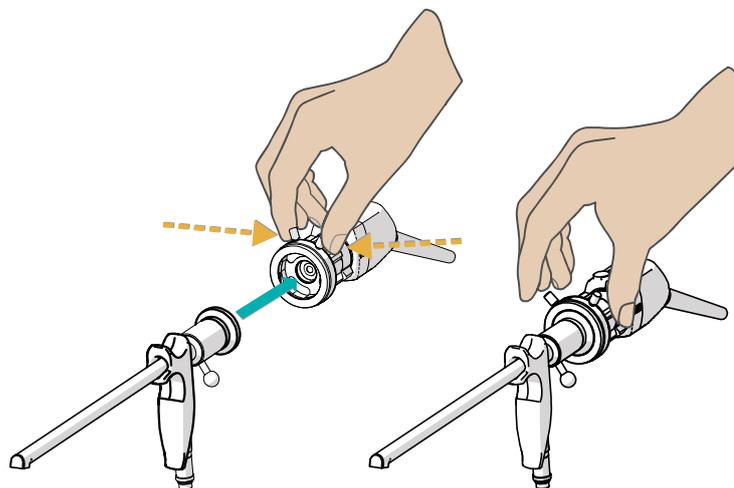


Illustration 2: Docking an endoscope

6.3 Function keys, Focus, Zoom and microphone

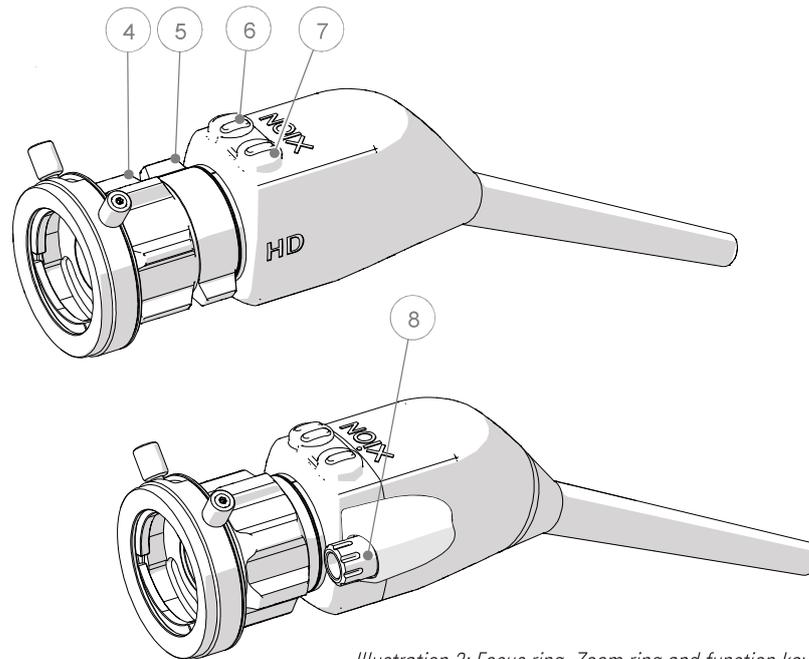


Illustration 3: Focus ring, Zoom ring and function keys

- Focus** The Focus ring (4) can be used to:
- adjust the focus for different working distances;
 - adapt the camera head to different endoscope oculars.

- Zoom** The Zoom ring (5) can be used to:
- vary the magnification of the observed object.



Function keys Function keys **I** (7) and **II** (6) of the camera head can be used to trigger functions of the Camera Processor used, such as freeze frame, white balance or exposure features.

The actual functions that are triggered by pressing function key **I** or function key **II** depends on the respective Camera Processor being used and the respective functions that have been assigned to/programmed for these keys.

- Microphone** The integrated microphone (8) is used to record sounds, for example during stroboscopic applications.

9 Declarations concerning EMC

Guidelines and Manufacturer Declaration

Electric medical devices are subject to particular precautionary measures with regard to electromagnetic compatibility (EMC) and must be installed and commissioned according to EMC guidelines.

The device is intended for use in the following specified electromagnetic environments. The customer or user should ensure that it is only used in these environments.

Electromagnetic environment

The device uses HF energy exclusively for its internal function. For this reason, its RF emissions are very low and it is improbable that neighbouring electronic devices are affected.

The device is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.

Lines tested according to IEC 60601-1-2

Type	Shield	Length
Camera head cable	Yes	3.0 m
Camera head cable	Yes	1.80 m