EBERLE

Optical Systems

Camera System

Camera System

- **Control Unit**
  article no. 913029
- **CMOS**
  HD-Camera Head
  article no. 913032
- **Zoom HD TV-adapter**
  f=15–36 mm
  article no. 900214
- **Keyboard USB**
  article no. 900230
- **Keyboard USB US/EU**
  article no. 900313

Due to the high-resolution sensor, coupled with the specially developed image processing, it is possible, even in only dimly lit cavities, to take pictures that show natural colours and are rich in detail and in contrast.
These technical features ensure that the Full HD camera is suited for widely different applications.

Resolution

- HDTV: 1080p
- HDTV: 1080i
- HDTV: 720p
- PAL: 576i
- NTSC: 480i

Frequency

- Optional 50 or 60 Hz

Outputs

- 1 x DVI
- 1 x Component (HD-RGB, -YPbPr)
- 1 x S-Video (PAL/NTSC)
- 1 x Composite (PAL/NTSC)
- 2 x Remote

Camera head functions

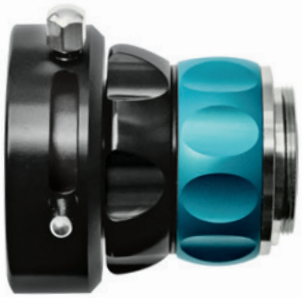
- 3 programmable keys
- coupler is available with fixed focal lengths and zoom

By means of the PC keyboard it is possible to edit and show

- patient's records (up to 10 datasets)
- time and date
- stop watch

Objective lens, standard

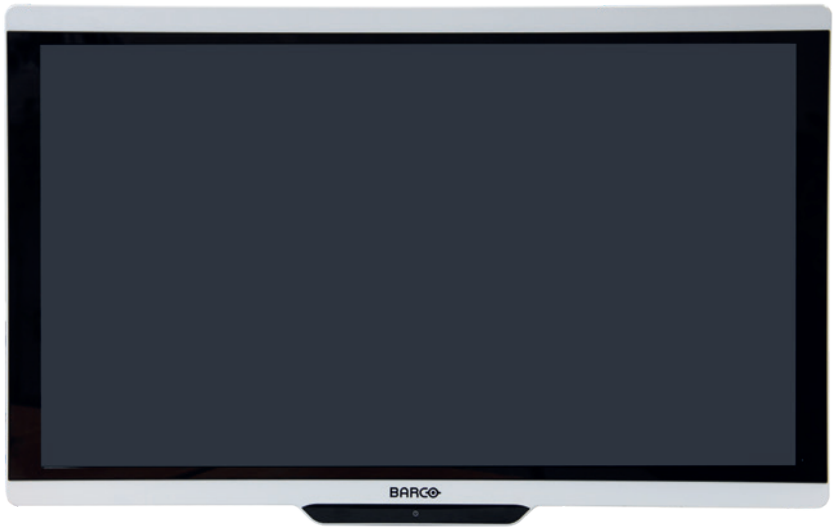
	article no.
HD TV-Adapter f=21 mm	900213
HD TV-Adapter f=18 mm	900215



Objective lens, zoom

	article no.
Zoom HD TV-adapter f=15–36 mm	900214

27˝ UHD-LCD Monitor
Barco MDSC-8427

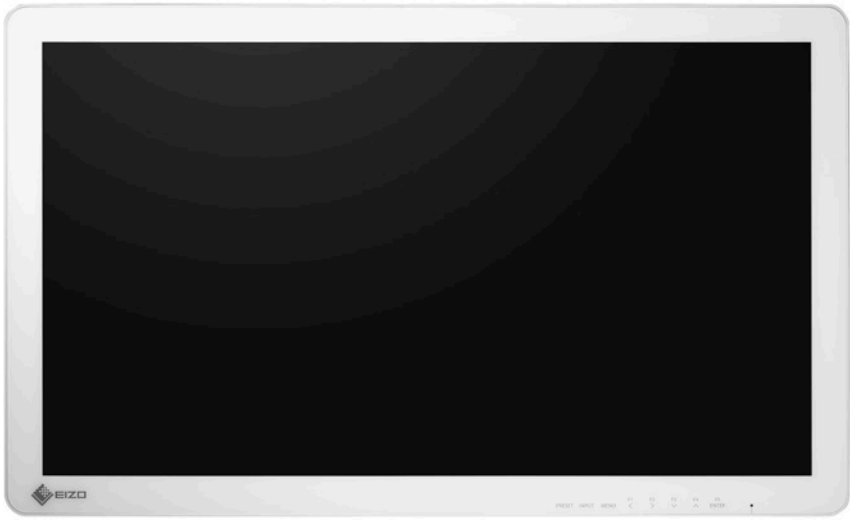


- **27˝ UHD-LCD-Monitor**
  article no. 900373

UHD-LCD-Monitor

- native resolution Ultra HD (3840 x 2160)
- 1.07 billion colors
- angle of view (h/v) 178°/178°
- Upscaling
- picture-in-picture function

27˝ FHD-LCD Monitor
EIZO CuratOR® EX2721



- **27˝ FHD-LCD-Monitor**
  article no. 900466
  - **Monitor stand**
    article no. 900465

FHD-LCD-Monitor

- native resolution Full HD (1920 x 1080)
- IPS technology
- 1.07 billion colours
- angle of view (h/v) 178°/178°
- picture-in-picture/ picture-by-picture function

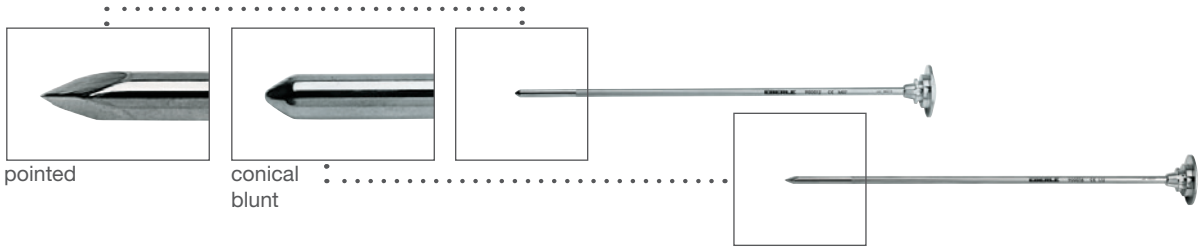
	article no.
Arthroscope Ø 1.9 x 60 mm, viewing direction 30°	900309
Arthroscope Ø 2.75 x 110 mm, viewing direction 30°	900113
Arthroscope Ø 2.75 x 110 mm, repair exchange	900113R
Arthroscope Ø 4.0 x 175 mm, viewing direction 30°	900004
Arthroscope Ø 4.0 x 175 mm, repair exchange	900004R
Arthroscope Ø 4.0 x 175 mm, viewing direction 70°	900266
Arthroscope Ø 4.0 x 175 mm, repair exchange	900266R
HD Arthroscope Ø 4.0 x 175 mm, viewing direction 30°	900256
Protective tube, autoclavable	900444

	article no.
Arthroscope sterilization basket, 290 x 80 x 52 mm	900091

Arthroscopy Shafts

	article no.
Arthroscopy shaft with two rotatable taps, Ø 1.9 mm, 30°	900310
Arthroscopy shaft with two rotatable taps, Ø 2.7 mm	900114
Arthroscopy shaft with two rotatable taps, Ø 4.0 mm	900014
High-flow arthroscopy shaft with two rotatable taps, Ø 4.0 mm, 30°	900469
High-flow arthroscopy shaft with two rotatable taps, Ø 4.0 mm	900468
High-flow arthroscopy shaft, quick-lock, with two rotatable taps, Ø 4.0 mm	900252

Trocar, obturator



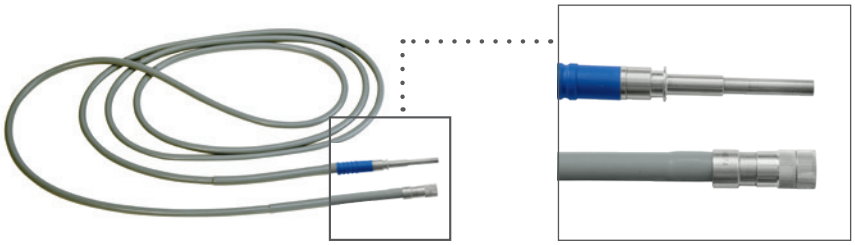
	article no.
Obturator conic blunt, Ø 1.9 mm	900311
Trocar pointed for article no. 900114	900115
Obturator conic blunt for article no. 900114	900120
Trocar pointed for article no. 900014	900016
Obturator conic blunt for article no. 900014	900012
Trocar pointed for article no. 900252	900236
Obturator conic blunt for article no. 900252	900237
Trocar pointed for article no. 900468, 900469	900471
Obturator conic blunt for article no. 900468, 900469	900470

- **Light Source LED**
  article no. 913030

Light Source LED

- high natural colour rendering with strong light intensity
- very homogeneous illumination, no edge shadowing effects or blooming
- glare shield when light conduction cable is not plugged in
- low-noise operating with minor heat development
- lifetime of bulb: approx. 30,000 hours
- setting of luminance intensity: digital in 10 steps
- light conducting cable connection: type Storz

Light Fiber-Optic Cable



Light Fiber-optic cable

• With adapter type Storz; other brands on request

	article no.
Ø 3.5 1800 mm	900037
Ø 3.5 2300 mm	900038
Ø 3.5 2500 mm	900039
Ø 3.5 3000 mm	900040
Ø 3.5 4000 mm	900041
Ø 3.5 5000 mm	900042

	article no.
Ø 4.8 1800 mm	900023
Ø 4.8 2300 mm	900015
Ø 4.8 2500 mm	900003
Ø 4.8 3000 mm	900032
Ø 4.8 3500 mm	900034
Ø 4.8 4000 mm	900035
Ø 4.8 5000 mm	900036

Standard colour: light grey
On request, the cables are also available in different colours.

Light source

		article no.
	Adapter for fiber-optic cable (light source Olympus new)	900445
	Adapter for fiber-optic cable (light source Olympus-ACMI)	900233
	Adapter for fiber-optic cable (light source Wolf/Dyonics)	900211
	Adapter for fiber-optic cable (light source Storz)	900138

Lens

		article no.
	Adapter for fiber-optic cable (lens Olympus new)	900440
	Adapter for fiber-optic cable (lens Wolf/Dyonics)	900280
	Adapter for fiber-optic cable (lens Storz)	900203

Documentation System TEAC

Documentation System

- **UR-4MD**
  article no. 900255
- **UR-4MD-DICOM-KEY**
  article no.
  900255-DICOM-Lizenz
- **Keyboard USB**
  article no. 900230
- **Keyboard USB US/EU**
  article no. 900313
- **Footswitch for TEAC UR-4MD**
  article no. 900314

	TEAC UR-4MD
Device type	**Medical HD-recording device with integrated 500 GB hard disk** Recording of HD videos and freeze images. Recordings to internal hard disk, network and up to two concurrent USB sticks. Easy operation by way of the 3.5“display and the OSD. Facilitated connection due to automatic signal detection. Data loss is prevented due to memory monitoring and safe shutdown (UPS).
Video inputs	DVI, SDI, S-Video, composite
Video outputs	DVI, SDI (out/thru), S-Video, composite
Image format	JPG, DICOM
Video format	MOV (H.264 / MPEG4)
Audio inputs	Line In, microphone (3.5 mm jack plug)
Audio outputs	SDI (BNC), Line (3.5 mm jack plug)
Network operation	RJ45 10/100/1000 ethernet
Internal memory	500 GB hard disk
External memory	USB stick, USB hard disk; network drive
Other connections	2 x 3.5 mm jack plug (external trigger)
Accessories (optional)	keyboard, remote control, foot switch, bar code/card reader

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