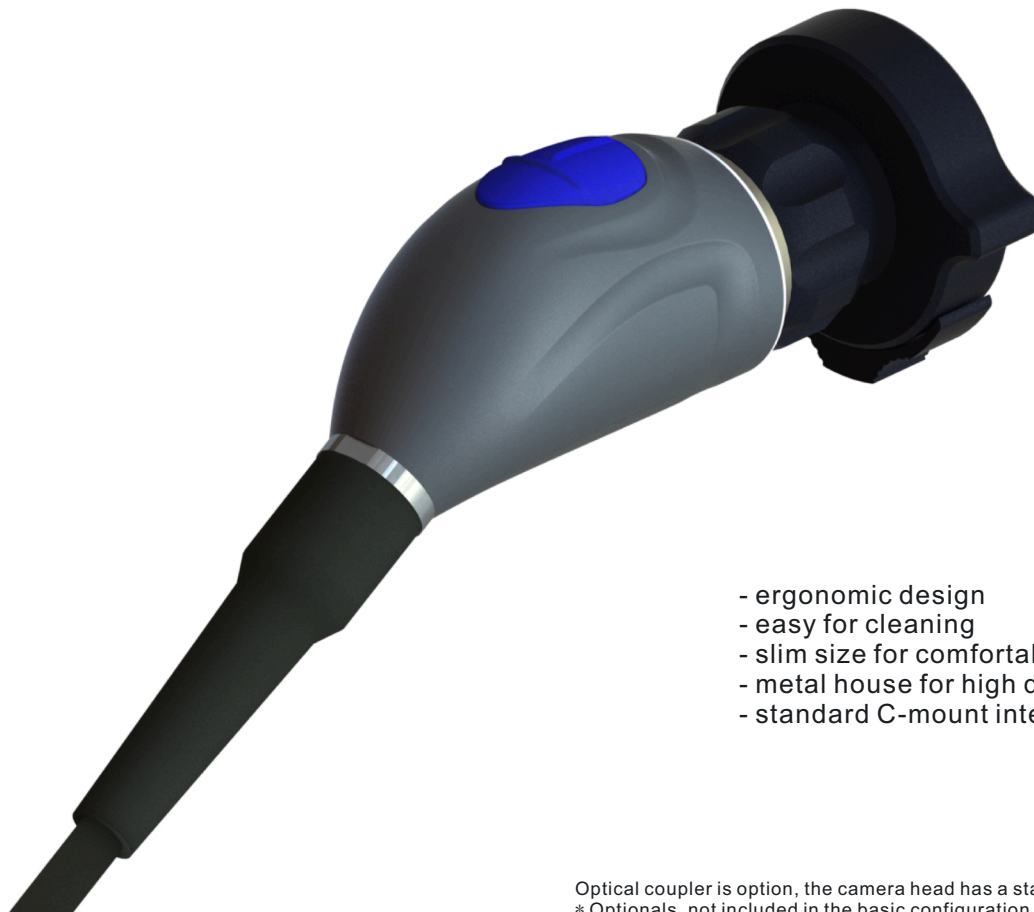


vitra® 4K1 Endoscopy Camera

A native 4K(UHD) 1CMOS endoscopy camera

The vitra® 4k1 endoscopy camera delivers extremely clear and sharp image in 4K(UHD) resolution. With modern image processing technology, the camera makes the finest details in tissue structures distinguishable. The camera offers all necessary features for surgical use such as digital zoom, freeze, digital edge enhancement, and etc.



- ergonomic design
- easy for cleaning
- slim size for comfortable holding
- metal house for high durability
- standard C-mount interface for lens

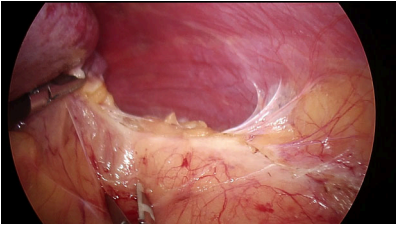
Optical coupler is option, the camera head has a standard C-mount interface.
* Optionals, not included in the basic configuration.

KEY FEATURES:

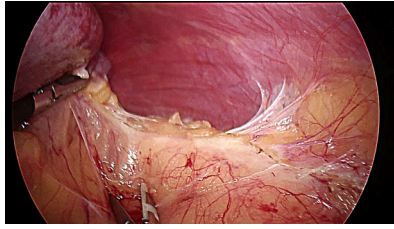
- ■ ■ Native 4K image sensor with more than 8Mega effective pixels in total
- ■ ■ High sensitivity requires less light from illumination
- ■ ■ New image enhancement functions on clarity and color
- ■ ■ High interference immunity from electrosurgery
- ■ ■ Flexible filters for using with fiber flexible scope
- ■ ■ HDMI 2.0 and 12G-SDI video output
- ■ ■ Digital zoom function and freeze function
- ■ ■ Mirror, flip, rotation function
- ■ ■ Video recording and image capturing directly to USB pen drive

Advanced Image Enhancement

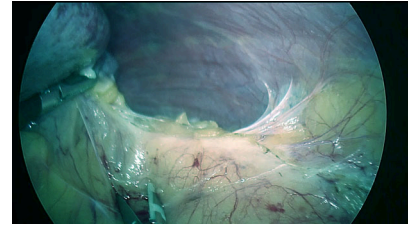
Original Image



Clarity Enhancement



Color Enhancement



Camera Control Unit (CCU) :



TECHNICAL DATA

General Specification

Video system	50Hz/ 60Hz Mode
Image sensor	1 x 1/3" CHIP
Scanning system	Progressive
Effective pixels	3840(H)×2160(V)
Resolution	1800TV Lines
User settings	Customizable (via OSD)
Control	glass panel touch screen
Output signal	HDMI / 12G - SDI
Control	External 2 channels Rs232 (upon request)
Interface	2x USB 3.0 host (Back) 1x USB 3.0 host (Front) 1x RG45 Ethernet (Streaming) 1 x JACK (3.5mm, ACC1/2) 1 x Mini-DIN 6 (RS232/CAN)
Classification	Class I / BF

Recording Module

File System	ext-4 / NTFS
Video Recording	H264/265 Compression
Image Capturing	JPEG format

Camera Head

Dimensions (W×H×D)	35 × 40× 67 mm
Weight	90g
Image Sensor	1/3 format, CMOS
Control buttons	3 (user programmable)
Operation Temp.	0°C - +35°C
Reprocessing	Soakable, IPX7
Cable Diameter	Approx. 7 mm
Cable Jacket	Silicon
Steriliation	Sterrad, Autoclavable (On request)

ORDERING DATA

6190.02.02	vitra 4K1 camera head
6190.12.03	vitra 4K1 camera controller