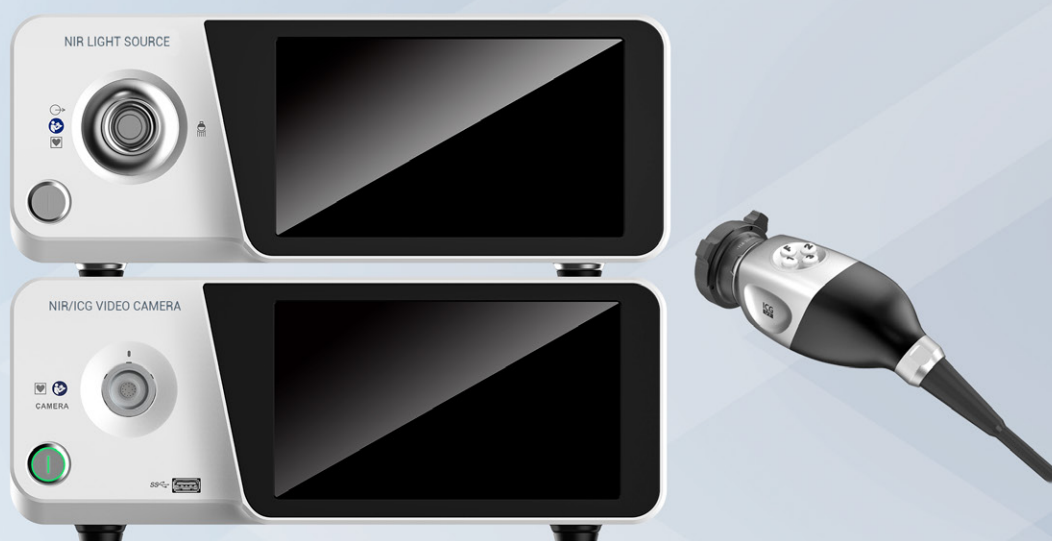




Contact

medical innovations

4K NIR/ICG VIDEO SYSTEM FOR FLUORESCENCE IMAGING

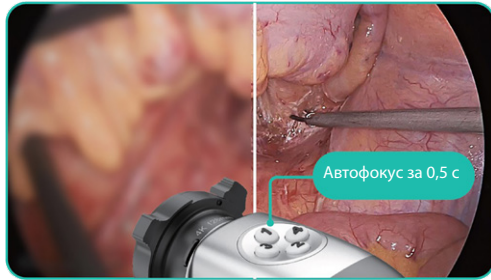


Using the fluorescent dye indocyanine green (ICG) and near-infrared (NIR) light, the ECONT NIR/ICG video system enables the acquisition of vivid and informative images of the biliary tract, vascular and lymphatic systems in Ultra HD (4K) format.

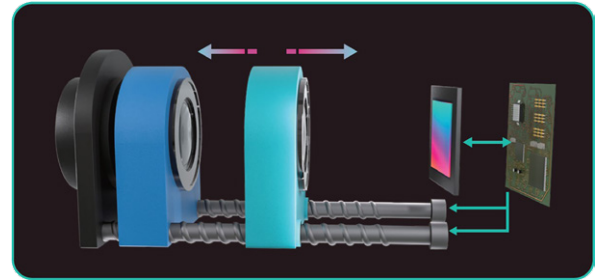
FEATURES

- 4K resolution with high brightness and image detail
- wide colour gamut compliant with the BT.2020 standard
- dual LED light source for visible and infrared light
- display modes: white light, monochrome fluorescent, 'fusion' and multi-window mode
- a wide range of digital image processing options: noise reduction, smoke filtering, glare neutralisation, shadow brightness levelling, blood vessel highlighting, etc.
- digital image magnification in the range of 1 to 5 times
- Adaptive automatic exposure for image brightness and stability.
- Colour management for accurate colour reproduction on different monitors.
- Gradient fluorescence colour reflects the exact concentration of ICG in tissues.
- Camera head with variable focal length (F14–32 mm) and autofocus, focusing in 0.5 seconds
- Camera head with IPX8 protection, supports immersion disinfection and EtO2/plasma sterilisation
- Four programmable control buttons on the camera head
- Ability to record video and photos in Ultra HD or Full HD quality to a USB drive
- Supports control protocols for the light source, insufflator, etc.

One-touch autofocus



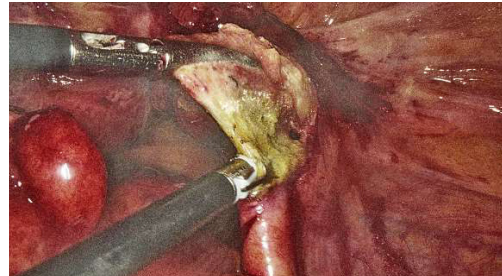
Variable focal length: 14–32 mm



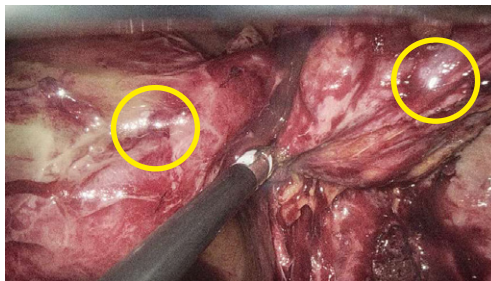
Digital smoke filtering is disabled



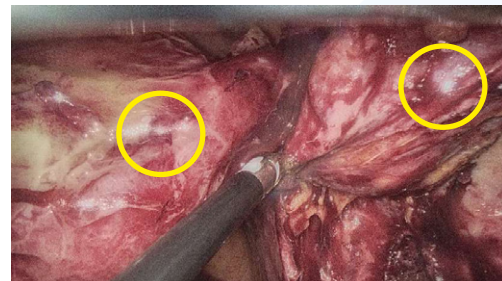
Digital smoke filtering is enabled



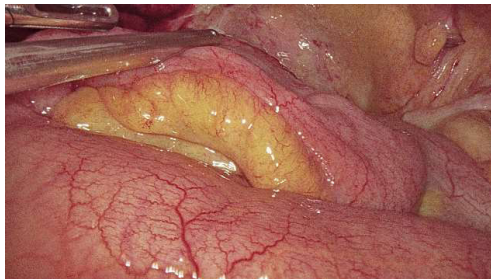
Flicker suppression is turned off



Flicker suppression is turned on



Original image



Highlighting of blood vessels



SPECIFICATIONS

Resolution, pixels	3840 x 2160 / 60 Hz
Video sensors	2 x 1/2,8" 16:9 CMOS
Resolution, TV lines	>1800
Signal-to-noise ratio, dB	>50
Minimum illuminance, lux	<1.0 F1.2
Video outputs	4K : HDMI 2.0, DP, 12G-SDI FHD: DVI, 3G-SDI
Digital zoom	1x ... 5x
Shutter speed, 1/s	1/50 ... 1/15 360
Encoding of the recorded signal	H264/H265
Supply voltage, V	230

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