



*Your gateway to the digital world*

## 1CCD ENDOCAM 5520

Digital signal processing with **i<sub>logic</sub>** • Highest light sensitivity and brilliance with **iQ<sub>LIGHT</sub>**  
• Digital to digital

# 1CCD ENDOCAM 5520

Your gateway ...

Since the introduction of camera systems for endoscopic applications, Richard Wolf has been synonymous with high-quality medical cameras.

The use of camera systems for endoscopic interventions has become the "Golden Standard" in recent years and today cameras are an integral component in the widest possible range of operating techniques.

The progressive digitalisation in medical fields in the meantime has led to even greater demands for innovative camera systems – no other product is so closely associated with the terms "high-tech" and "digital":

- Digital signal processing
- Output of digital video signals

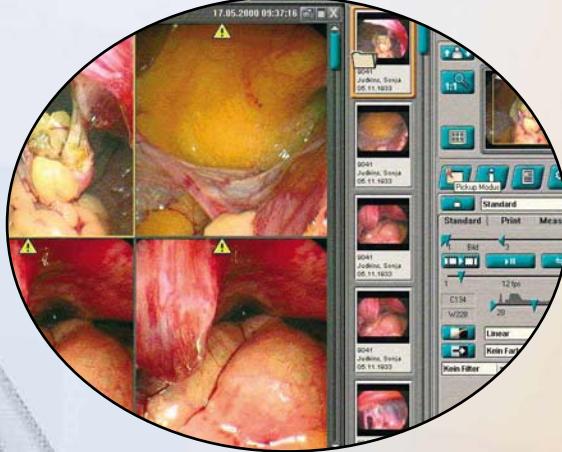
- Solutions for documentation of surgical interventions on digital media
- On Screen Display** for menu-guided camera control
- Preselected, user-specific settings can be called up and activated
- Control from central computer within the framework of complete OR concepts

R. Wolf has developed an exclusive, digital endocamera system integrating the additional functionality of *i<sub>logic</sub>* and *iQ<sub>LIGHT</sub>*, two worldwide new standards in digital signal processing:

## The new 1CCD ENDOCAM 5520

### On Screen Display

All parameters of the camera can be preset menu-guided on the screen and stored individually for different users.



Digital image recording and archiving in conjunction with **MEDIMAGE**, the comprehensive patient archive system.

# 1CCD ENDOCAM 5520

... to the digital world



Digital camera system

In addition to the general advantages of digital signal processing in endoscopic camera systems, the new **1CCD ENDOCAM 5520** impresses with its considerably expanded advanced functionality that is otherwise available only by using extra devices:

- Digital Anti-Moiré Filter**
  - Reduces pixel structures when using fiber endoscopes and mini telescopes
- Digital Zoom**
  - Allows zooming at the touch of a button
- Text generator**
  - Allows the editing of, for example, patient data in printed pictures, videos etc.
  - Texts that would otherwise be permanent and disturbing on the monitor are suppressed automatically after a few seconds



## DV (Digital Video)

Optional IEEE 1394 (DV) interface for direct use of the digital video signal on suitable data terminal equipment.



Video

## i<sub>Q</sub> logic

### iQ LIGHT

- ❑ Ensures excellent picture brightness even under critical light conditions, for example when bleeding occurs and when using thinner endoscopes
- ❑ Enormous increase in dynamics compared with conventional systems thanks to brightness addition of the individual pixels (pixel addition)

- ❑ Fully automatic monitoring and control of digital signal processing for continuous optimisation of the display of the endoscopic image with **DIP** (**D**ynamic **I**mage **Processing)**
- ❑ Automatically optimizes the digital signal processing according to the stored user settings
- ❑ The **i<sub>colour</sub>** graphic user interface in the **On Screen Display** allows simple and fine tuning of the colour control

AUTOCLAVE



TITANIUM

ERGONOMICS

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... to the digital world

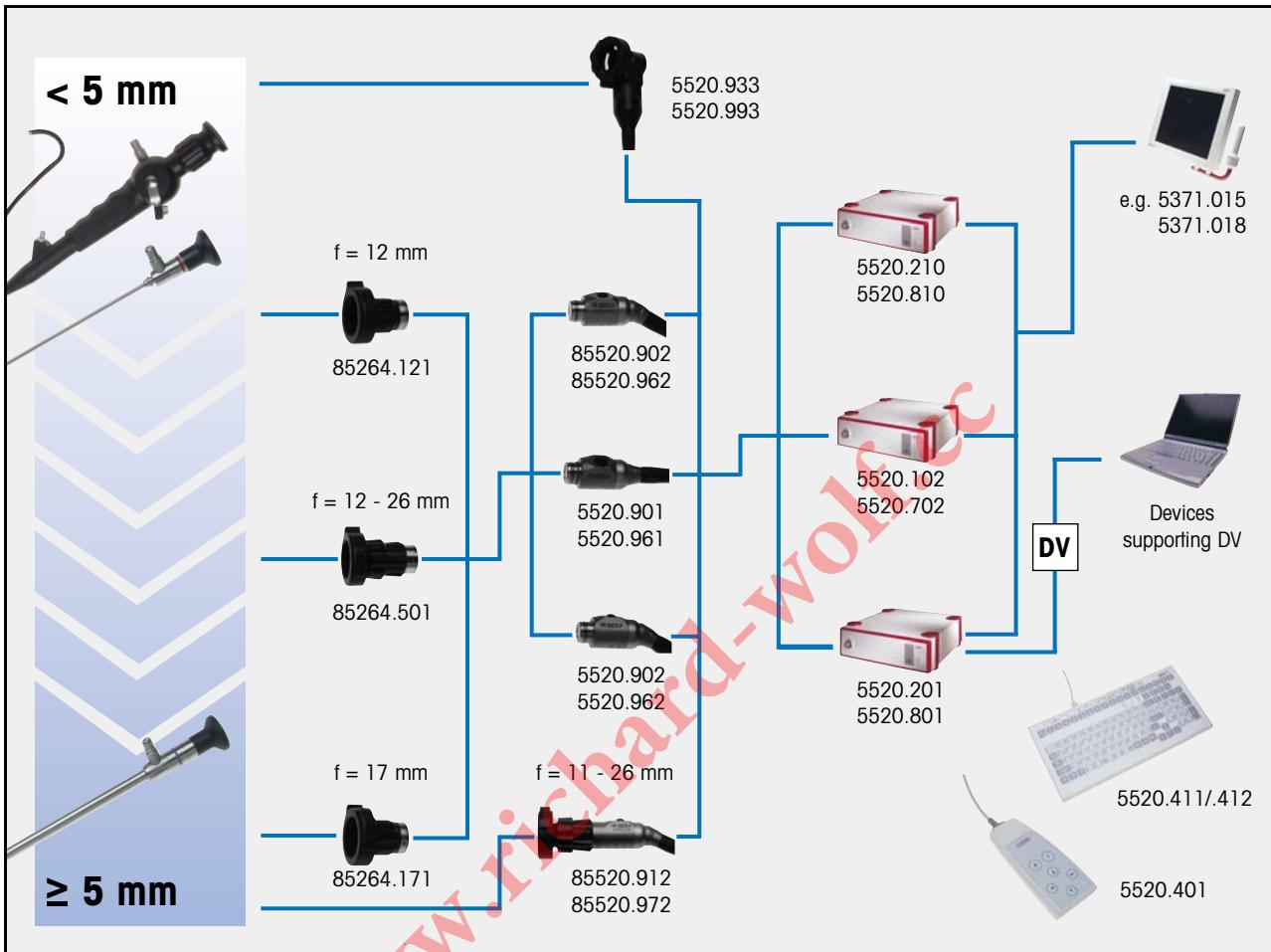
The name of the 1CCD ENDOCAM 5520 stands for an innovative camera concept and represents the yardstick for quality and individual system configuration.

- Flip (reversible display)
  - Special operating techniques sometimes mean that the operator has to look "against" the endoscope
  - As a result the display on the monitor is the wrong way round. The 1CCD ENDOCAM 5520 corrects this with its mirrored image
- Economics
  - One controller for the widest variety of camera heads and sensors up to 1/10 inch CCDs
  - Various update kits, for example CAN bus or DV interface
- Optional interfacing to RIWO-NET allows central control of the camera functions in an integrated OR solution, for example with voice control



# 1CCD ENDOCAM 5520

## System Overview



**1CCD ENDOCAM Controller** including integrated text generator, digital image processing with *i<sub>logic</sub>* control, *iQ Light*, digital zoom, flip, freeze, PDD functionality, incl. cable set,

Power supply 100 - 230 V, 50/60 Hz

Colour system PAL ..... 5520.210  
NTSC ..... 5520.810

**1CCD ENDOCAM Controller** including CAN bus interface

Colour system PAL ..... 5520.102  
NTSC ..... 5520.702

**1CCD ENDOCAM Controller** including CAN bus interface and DV board

Colour system PAL ..... 5520.201  
NTSC ..... 5520.801

**1CCD camera head autoclave**, autoclavable version,  
RW-mount connector, cable outlet oblique

Colour system PAL ..... 85520.902  
NTSC ..... 85520.962

**1CCD camera head**

autoclavable, incl. zoom lens 11 - 26 mm, cable connection angled, 1/4 inch, cable length 3 m, 2 camera head buttons

Colour system PAL ..... 85520.912  
NTSC ..... 85520.972

**1CCD camera head, RW-mount connector, cable outlet oblique**

Colour system PAL ..... 5520.902  
NTSC ..... 5520.962

**Urological camera head** for 1CCD ENDOCAM 5520,

integrated angled lens, swivelling standard endoscope locking mechanism and direct viewing eyepiece, focal distance f = 22 mm

Colour system PAL ..... 5520.933  
NTSC ..... 5520.993