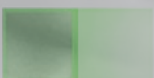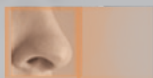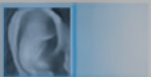# FENTEX
medical

# EC-CAM Endo-Diagnostics

*Integrated video system to run under Windows®.*

## Precision meets Quality

*Digital endoscopic camera system for your laptop.*

*The most comprehensive and cost effective way to manage your endoscopic images in the office or out-patient clinic.*

# EC-CAM

## Digital Diagnosis Set

The new digital endoscopic camera system EC-CAM can be directly connected to your laptop computer (USB 2) without additional control units or other bulky equipment. In combination with our new software CAMEX Endoview your laptop turns into a powerful tool to manage all your endoscopic data.

Equipped with the optional LED ENDO LIGHT your computer becomes a truly mobile endoscopy unit providing the flexibility to easily bring Endoscopy to your patient

**USB 2.0**



USB cable output at 30°

2 programmable buttons
- AWB
- Freeze frames
- Anti moiré

C-mount coupler

Focus ring

Scope holder

## Smart and user friendly

- All in one USB camera to connect directly to your PC
- No bulky control unit, just a USB connector
- "Plug and Play" Installation, easy to use
- Compatible to CAMEX Endoview Imaging Software

## Cutting - edge technology

- Endoscopic imaging in PAL resolution (752x562, progressive scan)
- Anti-moiré filter for flexible endoscopy
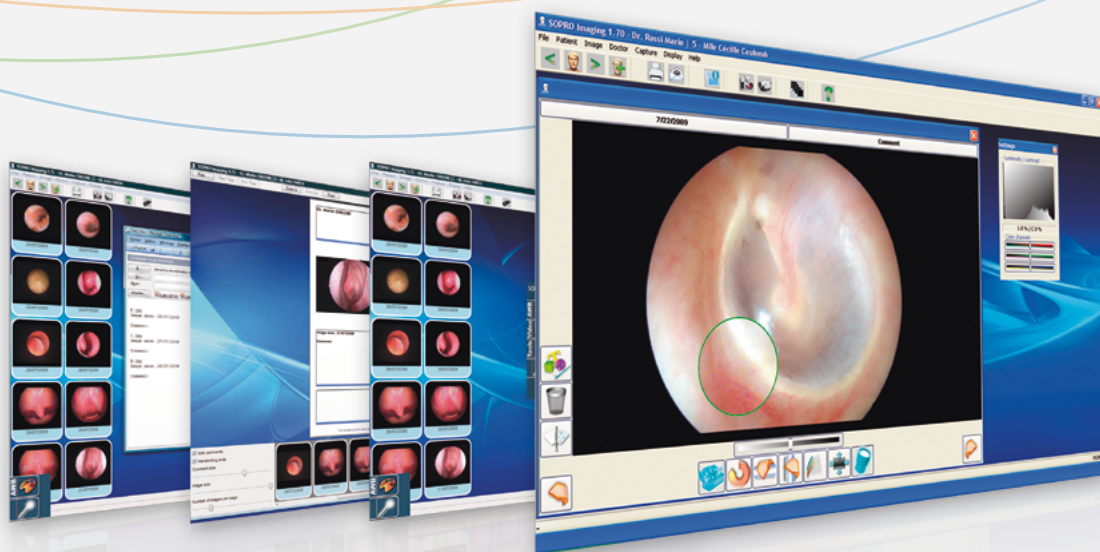- Automatic video settings during AWB
- Waterproof design



*Sophisticated digital video technology for pin-sharp images*

## ENT application

# CAMEX Endoview

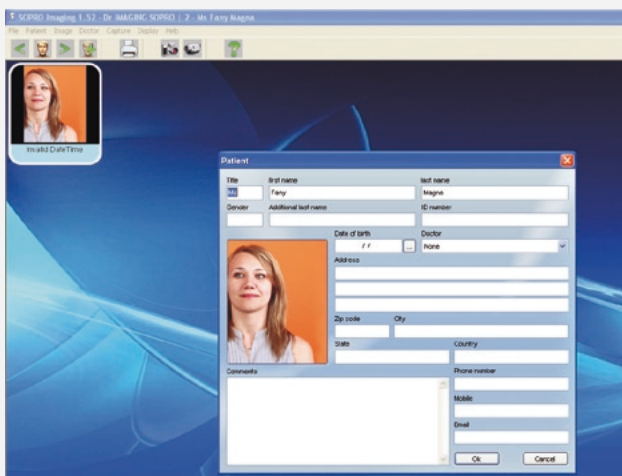## Endoscopic Imaging Software



## Diagnostic Software

Camex Endoview imaging software dedicated to aid diagnosis and patient management, providing not only the display of endoscopic images in real time but also comprehensive tools to capture and store video as well as patient related information.

The software is fully Windows compatible and easy to use with most tools just a mouse click away.

- Endoscopic live images
- Image capture (still images)
- Movie capture (MPEG 4)
- Zoom, drawing and text editing

## Patient Management and Data Archiving





Whether you create medical reports or export diagnostic data via E-mail or electronic fax your Camex Endoview software is designed to help you organize all patient related information.

### Use your Camera and Software for

- Microscopy
- Otoscopy
- Rhinoscopy
- Pharyngo- Laryngoscopy
- Flexible and Rigid Endoscopy

## Technical specifications EC-CAM

- BF Type camera
- Sensor: CCD 1/4" high sensitivity
- Resolution of the sensor: (752 x 582) PAL
  (768 x 494) NTSC
- Definition: 470 lines
- Sensitivity: 2 lux
- Signal/Noise ratio: 52 dB
- Electronic shutter: Automatic
  (1/50 to 1/100 000)
- Variable surface of analyze for the shutter
- Automatic white balance
- Video enhancement "SHARPNESS"
- Electronic anti-moire filter for flexible fiberscopes
- Adjustments of the video parameters
- Automatic detection of the color temperature
  according to the used light source
- Automatic saving of the adjustments and parameters
- 2 programmable buttons  (e.g. w/b, capture)
- Cable length: 3 meters, Ø:5 mm
- 1 USB 2.0 output
- Power supply: 5 V DC
- Power consumption: 2.5 VA

## Features of the camera head

- ABS-PC waterproof camera head
- C-Mount made of aluminium
- Size of the sensor: L = 87mm; Ø = 30 mm
- Weight of the sensor: 210g
- Two programmable buttons

## Recommended configuration

| | |
|---|---|
| Operating system: | Windows 2000 / XP Pro SP3 VISTA / Business SP1 |
| Processor: | Intel Core2 |
| RAM: | 2 GB |
| Hard disk: | 160 GB |
| USB ports: | 4 USB 2.0 Hi-Speed ports |
| Graphics card: | with NVIDIA or ATI chipset 128 MB of unshared video RAM with support for DirectX 9 or higher |
| Screen resolution: | 1024 x 768 or higher |

## Minimum requirements

| | |
|---|---|
| Operating system: | Windows 2000 or higher |
| Processor: | Pentium III-500 MHz |
| RAM: | 512 MB |
| Hard disk: | 20 Gb |
| USB ports: | 2 USB 2.0 Hi-Speed ports |
| Graphics card: | 32 MB of unshared video RAM with support for DirectX 9 or higher |
| Screen resolution: | 1024 x 768 |

## Accessories

- Objective: F = 12 or 17mm with endoscopy coupler (C-mount)
- Weight of the objective: 60g
- 1CD ROM including:
  - Camera drivers for Windows
  - CAMEX Endoview - application software
  - The software tools: AMCAP, EMCLEAR



## Technical Specifications ENDO-LIGHT
## USB Powered

| | |
|---|---|
| Weight: | 83 g |
| Classification: | 1 M according to EN 60825-1 |
| Cable length: | 2 m |
| Light emitting: | Ø5 mm |
| Power supply.: | USB port with max. 500mA |
| LED: | 3 W, white |
| Colour temp.: | approx. 6.000 Kelvin |

| | | |
|---|---|---|
| **Ordering Information:** | 502300FX | EC-CAM, DIAGNOSTICS, ENDOSCOPIC CAMERA INCL. C-MOUNT COUPLER AND SOFTWARE PACKAGE FOR LAPTOP |
| **Optional:** | 710300FX | LED ENDO LIGHT, 3 WATTS WITH USB CONNECTOR. FOR USE WITH RIGID ENDOSCOPES |
| | 710305FX | FENTEX/OLYMPUS/STORZ ADAPTER |
| | 710306FX | R. WOLF ADAPTER |
| | 710307FX | ACMI ADAAPTER |

## Precision meets quality

*Our company - FENTEX medical GmbH is specialized in the development, manufacturing and marketing of surgical instruments, implants and visualization systems for surgery in the head & neck area.*

*Especially in this part of the human body with its anatomical and functional complexity and high aesthetic demands special skills are required. It is our mission not only to meet but to surpass these requirements with our products and services.*

**FENTEX** *Instruments - Made in Germany*