



LOWER GI ENDOSCOPY

ELUXEO™ meets ARTIFICIAL INTELLIGENCE

NEW

CADEYE

for colonic polyp detection & characterisation

CAD EYE is aimed to improve the real time polyp detection rate to expert level, helping to recognise flat lesions, multiple polyps simultaneously, as well as any lesions at the corner of the image. CAD EYE Detection is possible with White Light and LCI (Linked Color Imaging) mode.

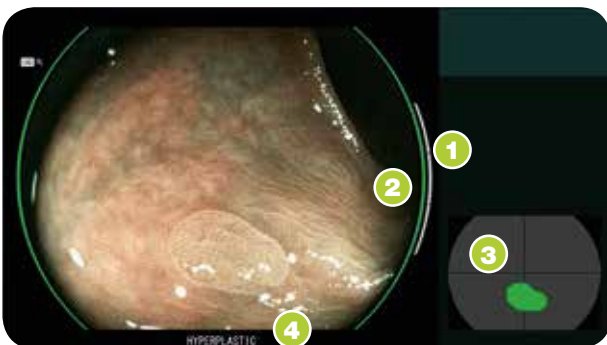
Once a suspected polyp is detected by CAD EYE Detection (WLI or LCI), CAD EYE Characterisation – in combination with BLI – can support endoscopists in the diagnosis of the polyp. This function analyses in real-time and without freezing or zooming if a polyp is hyperplastic or neoplastic, which is visually indicated by the use of different colour codes in the Position Map. CAD EYE Characterisation is aimed to make procedures more efficient by increasing the accuracy of diagnosis to expert-level.*

The development of the **user-friendly interface** has been designed to enable comfortable procedures. It does not interfere with clinical images and reduces required eye movement. Its display is designed to be simple and intuitive for excellent support during long hours in the examination room.



DETECTION SUPPORT

- 1 **DETECTION BOX**
Displays the area where the suspicious polyp is detected. Different sizes of the Detection Box are available.
- 2 **VISUAL ASSIST CIRCLE**
Lights up in the direction where the suspicious polyp is detected.
- DETECTION SOUND**
Sound signal when a suspicious polyp is detected. Volume can be defined for each user.



CHARACTERISATION SUPPORT

- 1 **STATUS BAR**
Indicates the status of characterisation analysis regarding the suspicious area
- 2 **VISUAL ASSIST CIRCLE**
GREEN: Characterisation HYPERPLASTIC
YELLOW: Characterisation NEOPLASTIC
- 3 **POSITION MAP**
Indicates the position of the suspicious area, this software is characterising.
- 4 **CHARACTERISATION RESULT**
HYPERPLASTIC: hyperplastic polyps & SSL
NEOPLASTIC: adenoma and cancer

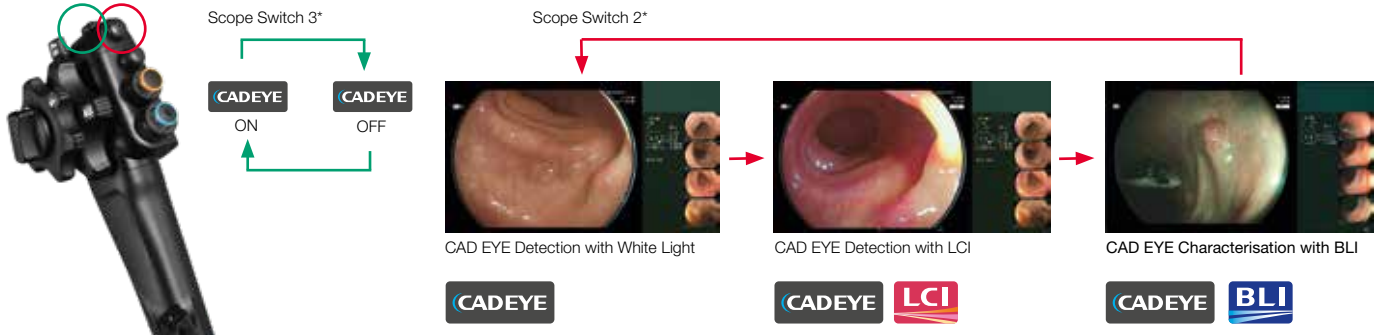


*According to the validation study, the accuracy of non experts with the assistance of CAD EYE Characterisation was equivalent to that of an expert.



SEAMLESS OPERATION

CAD EYE Detection and Characterisation can be activated / deactivated simply by a push on the endoscope button or directly at the processor.



* The function of each switch can be defined individually.

SPECIFICATIONS

CAD EYE works with the expansion unit EX-1 and the CAD EYE software EW10-EC02. With software EW10-SC01 up to 30 hours of movie and still image material can be stored in the internal memory of EX-1. It can easily be controlled with the scope switch or directly at the processor.

Expansion Unit EX-1

Compatible processor	VP-7000 / EP-6000
Video signals	In: DVI-I x1 (1920 x 1080) Out: DVI-I x1, DVI-D x1 (1920 x 1080)
Other connections	2x RS-232C Connectors Front 1x USB 2.0, back 4 x USB 3.1 2x Network / LAN ports
Power rating	100-240 VAC +/- 10%, 50/60 HZ, 1.25 to 0.60 A
Dimensions (W x H x D)	370.0 mm x 99.0 mm x 465.6 mm
Weight	Approx. 7.1 kg

Software EW10-EC02

Package content	USB flash drive for CAD EYE installation
Function	Detection and Characterisation support for colonic polyps

Software EW10-SC01

Package content	USB flash drive for installation basic functions
Functions	<ul style="list-style-type: none"> • Movie and still image recording with CAD EYE overlay • Network function: Still image transfer via FTP/FTPS/Dicom storage and for video recording transfer via Samba network protocol • Automatic copy to external USB memory
Image storage specifications	<ul style="list-style-type: none"> • Resolution: Full HD/ SXGA • File format: TIFF/ JPEG
Video storage specifications	<ul style="list-style-type: none"> • Resolution: Full HD • File format: MP4 • Frame rate: 30 fps • Max. recording time of one file: one hour • Internal memory: max. 30 hours



- 1 FOR COLONIC POLYP DETECTION & CHARACTERISATION
 - 2 MOVIE & STILL IMAGE RECORDING FUNCTION
 - 3 FUTURE CAD APPLICATIONS CAN BE INSTALLED
- Expansion Unit EX-1

Increased contrast in red colour leads to improved detection of inflammation and accurate delineation.

The combination of special light wavelengths results in improved and accurate contrast imaging.

The goal of the DICOM Standard is to achieve compatibility and improve workflow efficiency between imaging systems and other information systems.