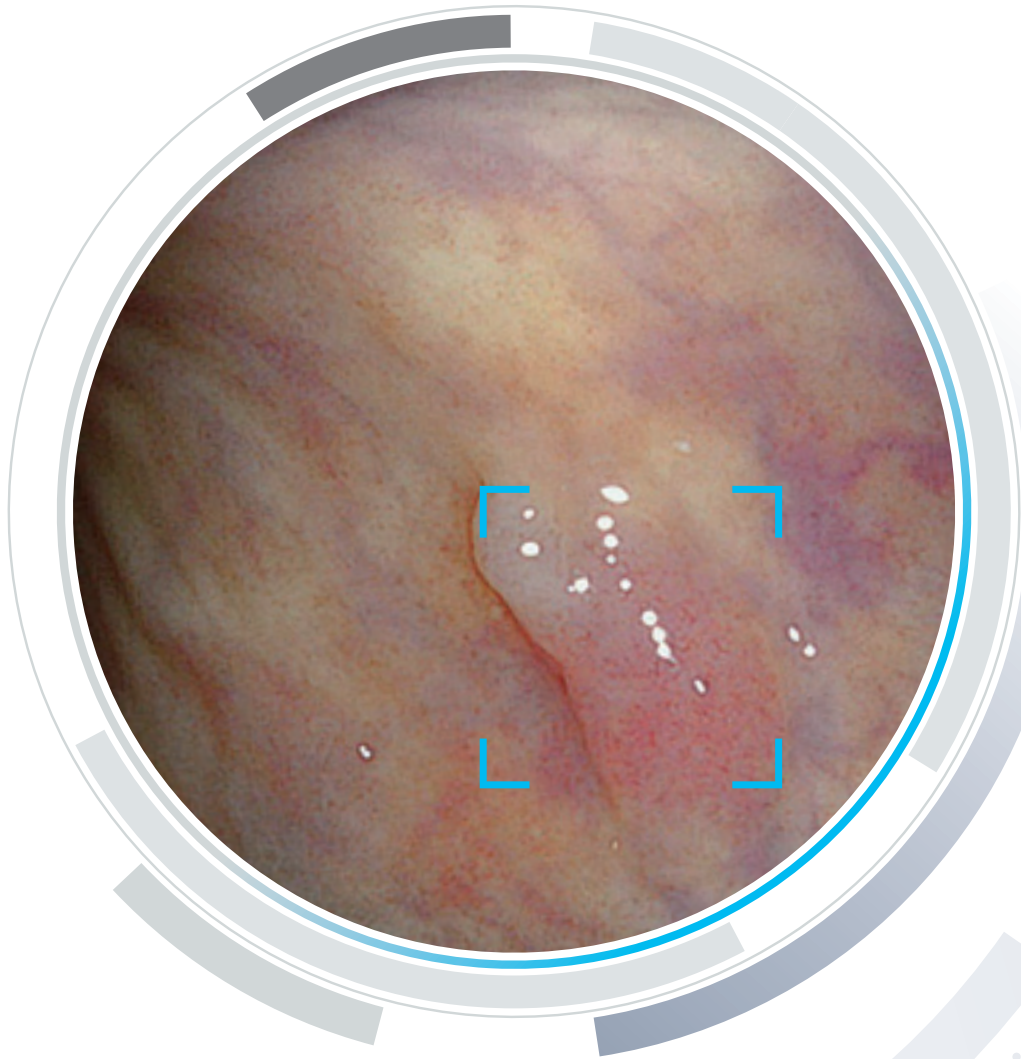


**CADEYE**  
COLONIC POLYP DETECTION



# *ELUXEO*™ MEETS ARTIFICIAL INTELLIGENCE



POWERED BY  
**REiLI** 

**FUJIFILM**  
Value from Innovation



# ACCELERATE INNOVATION



Fujifilm has pursued and developed cutting-edge image processing technologies for many years. And in 2018, utilising such technologies, it developed its proprietary medical AI technology.

## REILI - MEDICAL AI TECHNOLOGY

Fujifilm continues developing technologies that can be applied to medical image diagnosis. A focus has been the work on the development of products powered by REILI for the radiology field as well as medical ultrasound and more recently endoscopy.

## CAD EYE SUPPORTS DETECTION

The novel function called CAD EYE is specifically designed for evolving the ELUXEO series with an add-on to support endoscopic detection in the colon. CAD EYE was developed based on the deep learning technology.

# DEEP LEARNING TECHNOLOGY

## CUSTOMISED FOR ELUXEO USERS

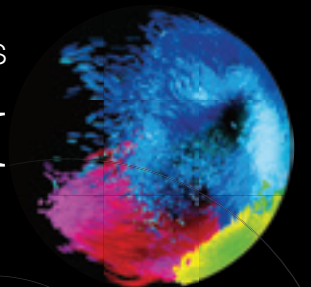
CAD EYE was trained with an immense amount of Fujifilm-specific clinical images (White Light & Linked Color Imaging (LCI)) with a powerful super computer, located in Fujifilm's AI technology center in Tokyo. This ensures CAD EYE to be a customised detection support tool specifically designed for the ELUXEO system.



## FUJIFILM'S HISTORY OF INNOVATIONS IN ARTIFICIAL INTELLIGENCE

<p><b>1956</b> Launched the "FUJIC" calculator</p> <p><b>1983</b> Launched the world's first digital radiography system: FCR</p> <p><b>1980</b></p>	<p><b>1996</b> Launched patented image intelligence algorithms in the consumer photo marketplace</p> <p><b>1999</b> Released the industry's first web-based Radiology PACS</p> <p><b>1990</b></p>	<p><b>2007</b> Launched facial image recognition in digital still cameras</p> <p><b>2010</b> Launched Synapse® 3D's simulator for organ recognition/resection Launched support for mammography CAD</p> <p><b>2000</b></p>	<p><b>2014</b> Launched Virtual Grid™ processing, which enhances image contrast and clarity</p> <p><b>2018</b> Launched the REILI artificial intelligence platform and deep learning engines</p> <p><b>2014</b></p>	<p><b>2018</b> Launched AI algorithms for bridge crack detection to support infrastructure improvements</p> <p><b>2018</b> Entered joint research agreement with Indiana University School of Medicine for AI medical imaging development</p> <p><b>2018</b> Announced joint collaboration with Lunit Inc. and Salud Digna to help radiologists evaluate AI technologies for diagnostic imaging</p> <p><b>2018</b> Brain(s) creative AI center installed NVIDIA's DGX-2 for AI development</p> <p><b>2018</b> REILI</p>
Image processing		Image recognition		Diagnostic support

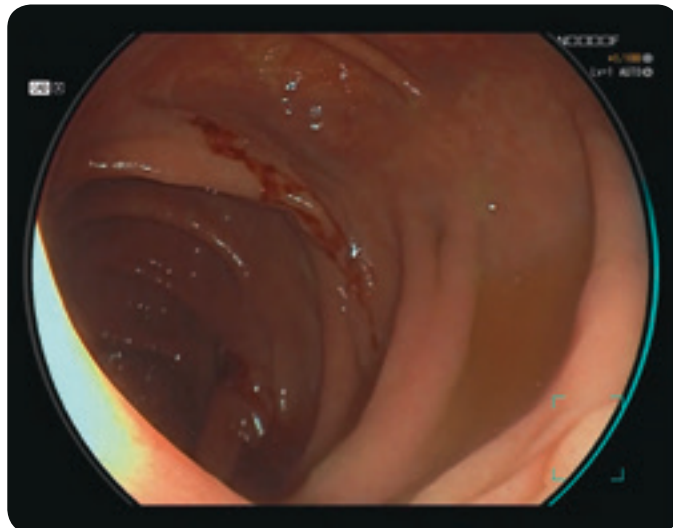
ELUXEO MEETS REILI



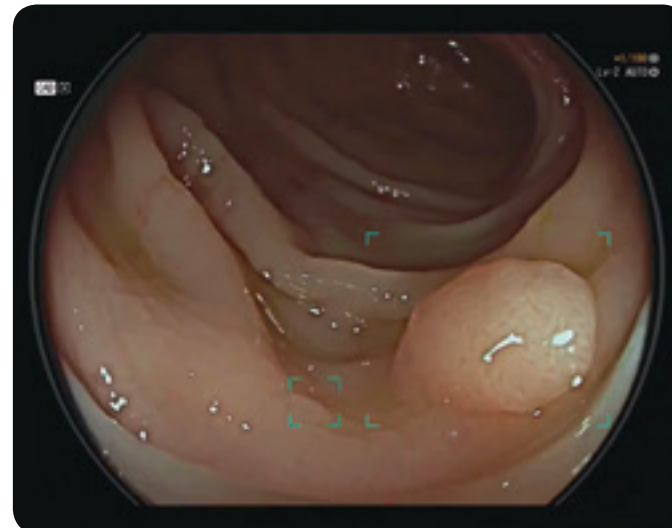


## POWERFUL IN MULTIPLE SITUATIONS

CAD EYE allows for real time polyp detection and provides a helpful tool for every day use. It is aimed to improve the detection rate to expert level, helping to recognise e. g. flat lesions, multiple ones as well as lesions at the corner of the image. CAD EYE Detection is possible with White Light and LCI mode.



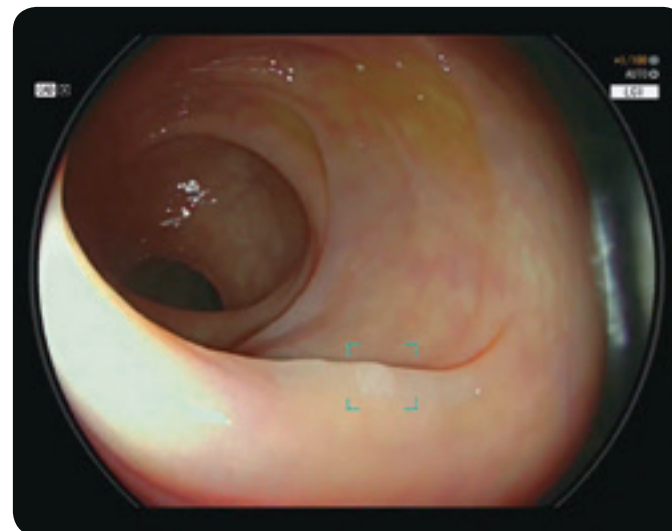
White Light Mode



White Light Mode



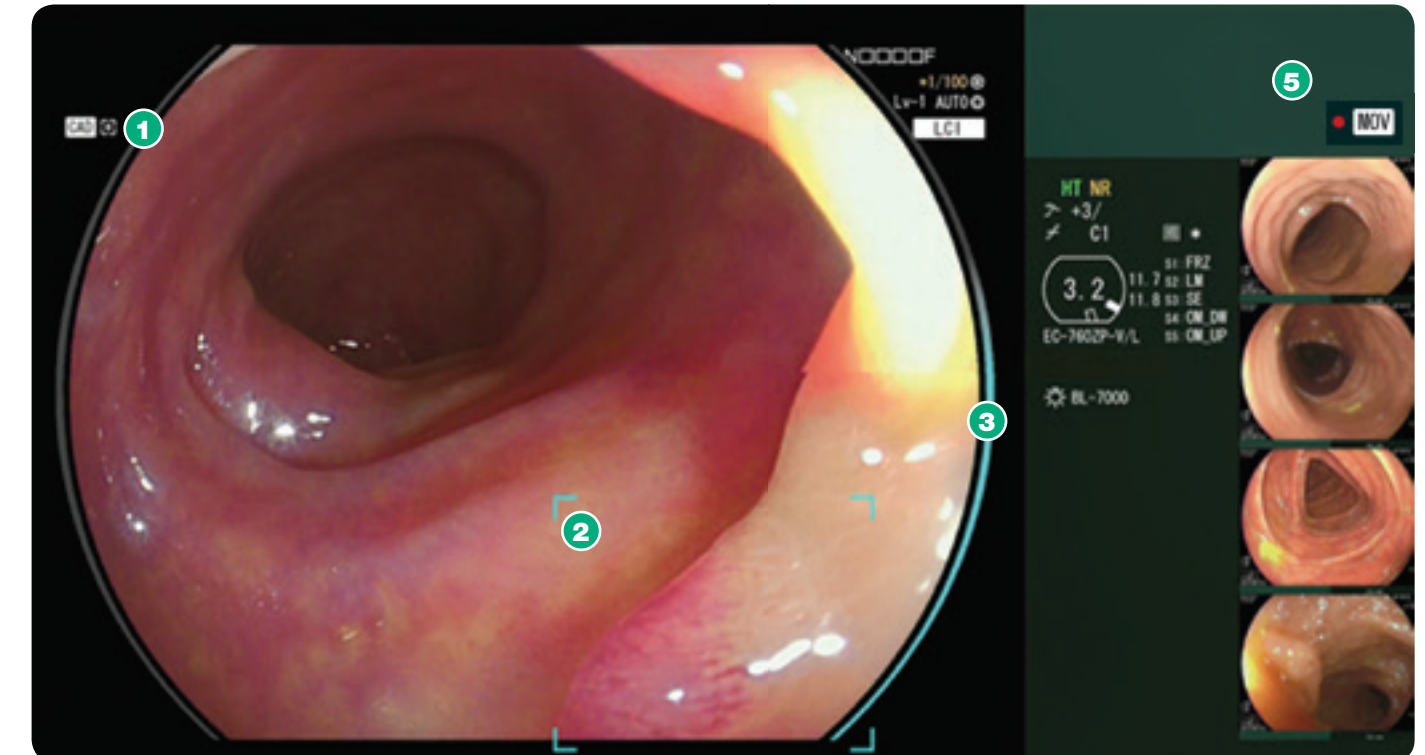
LCI Mode



LCI Mode

## USER-FRIENDLY INTERFACE

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



- 1 CAD STATUS DISPLAY**
- CAD CAD EYE Detection
  - CADOFF OFF
  - CAQ Disable

- 2 DETECTION BOX**
- Displays the area where the suspicious polyp is detected.

- 3 VISUAL ASSIST CIRCLE**
- Lights up in the direction where the suspicious polyp is detected.

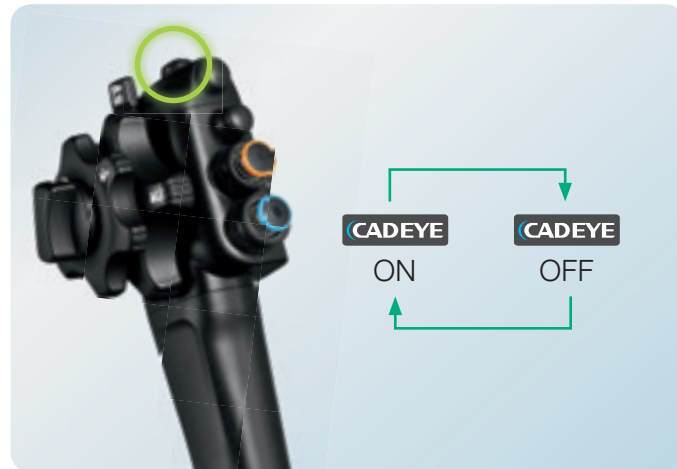
- 4 DETECTION SOUND**
- Beeps when a suspicious polyp is detected. Volume can be defined individually.

- 5 MOVIE RECORDING FUNCTION**
- Full HD movies can be recorded controlled via the scope switch or directly at the processor.
- Please do not use the video file for diagnoses.

# FOR YOUR DAILY EXAMINATION

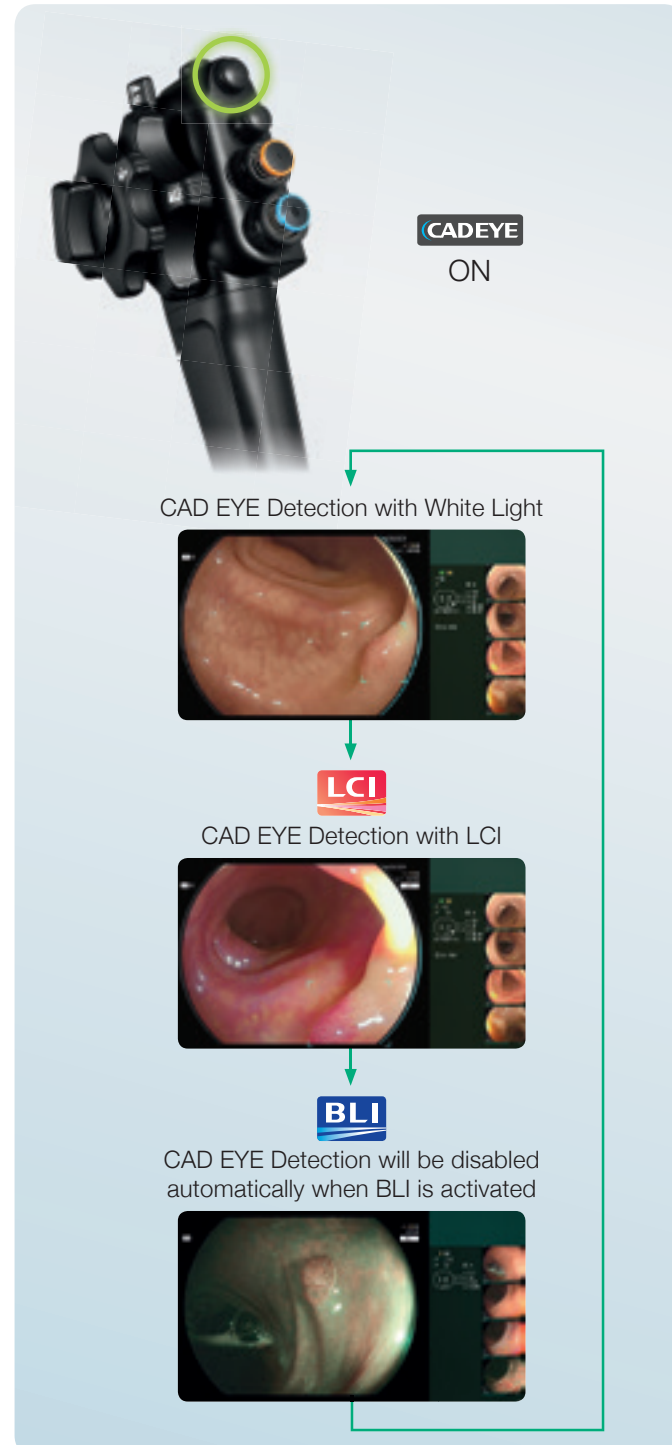
CAD EYE Detection can be activated / deactivated simply by a push on the endoscope button or directly at the processor.

## SCOPE SWITCH 3\*



\*The function of each switch can be defined individually.

## SCOPE SWITCH 2



# SPECIFICATIONS

## EXPANSION UNIT EX-1 Full HD endoscopy

CAD EYE works with the expansion unit EX-1 and the software which will be installed easily via the USB-port. The internal memory allows you to store up to 30 hours of video material. It can easily be controlled with the scope switch or directly at the processor.

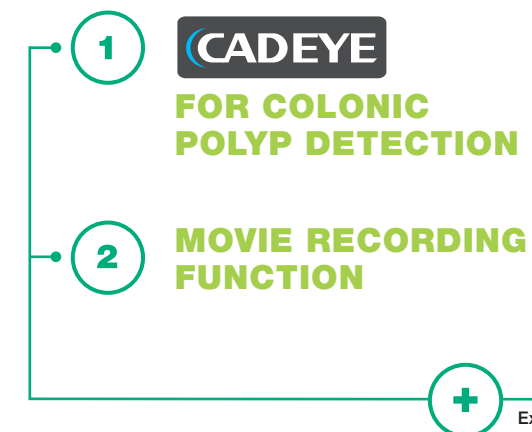
### Expansion Unit EX-1

Compatible processors	VP-7000
Compatible scopes	700 series colonoscopes**
Output	DVI-I x1, DVI-D x1
Input	DVI-I x1
Memory	30 hours of video material, Full-HD, MP4
Power rating	100-240 VAC +/- 10%, 50/60 Hz, 1.25 to 0.60 A
Dimensions (W x H x D)	370.0 x 99.0 x 465.6 mm
Weight	7.1 kg

\*\* Movie recording function is compatible with 600/500 scopes.

### Software EW10-EC01

Package Content	USB for CAD EYE (colonic polyp detection) installation, user manual
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**ADVANCING DEEPER INSIGHTS  
IN ENDOSCOPY**

**FUJIFILM**

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