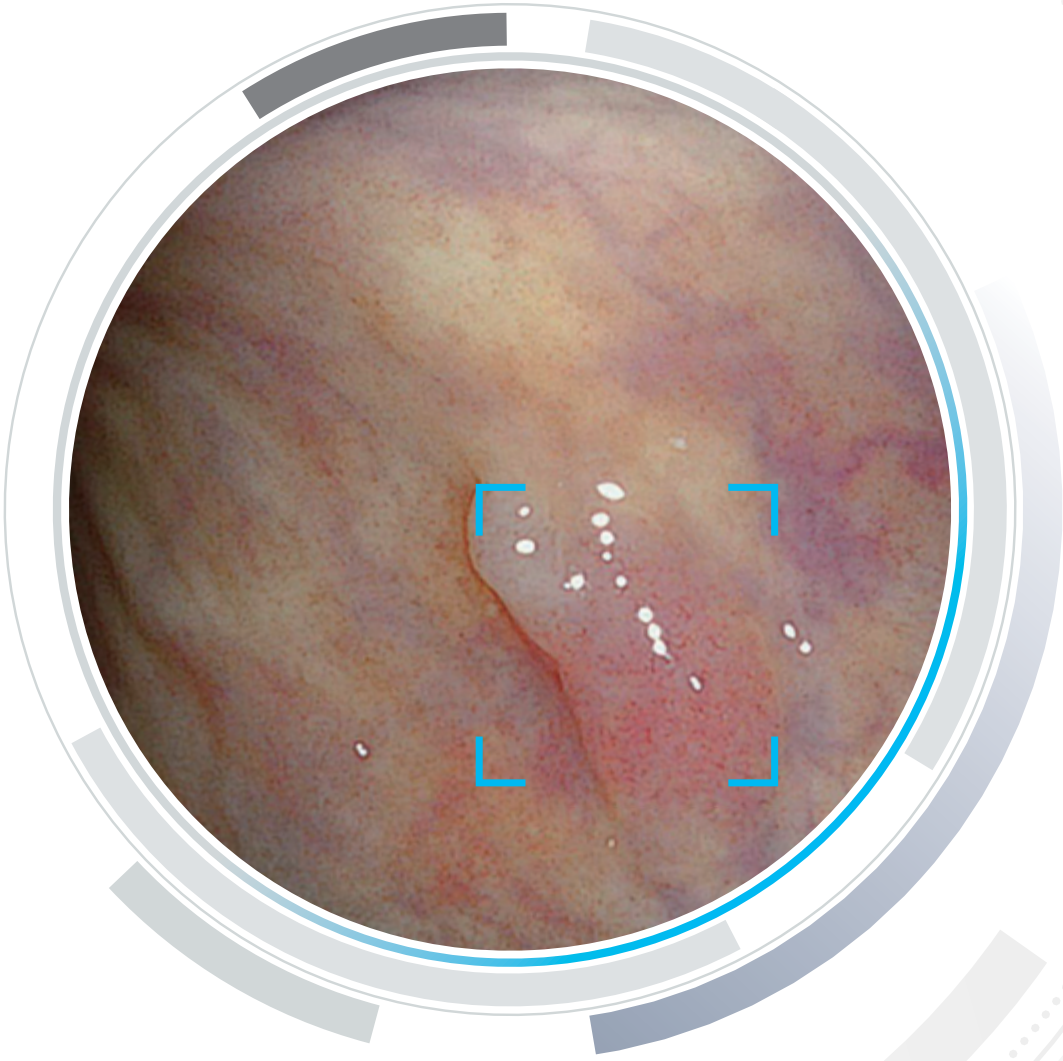
CADEYE

COLONIC POLYP DETECTION



ELUXEO™ MEETS ARTIFICIAL INTELLIGENCE

LCI BLI

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.

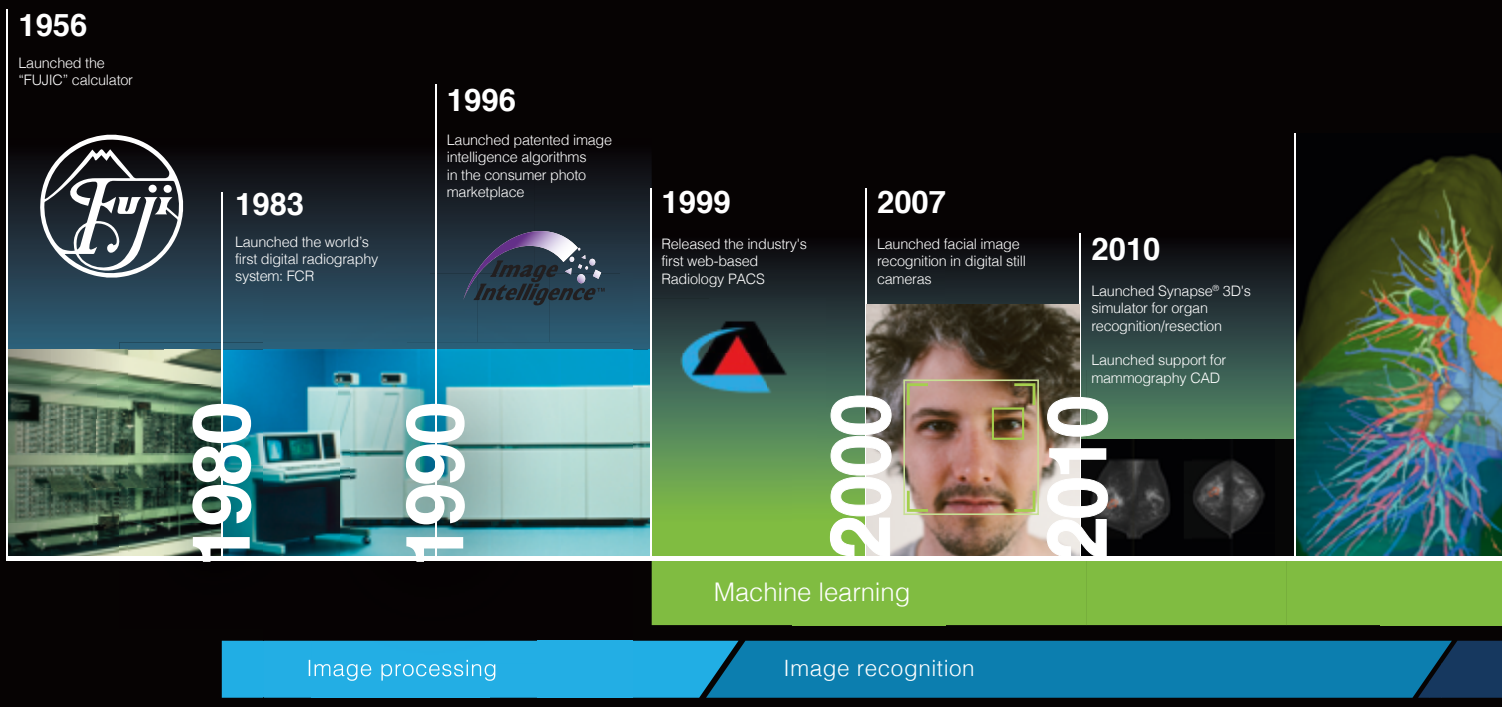
REILI – MEDICAL AI TECHNOLOGY

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.

FUJIFILM'S HISTORY OF INNOVATIONS IN ARTIFICIAL INTELLIGENCE



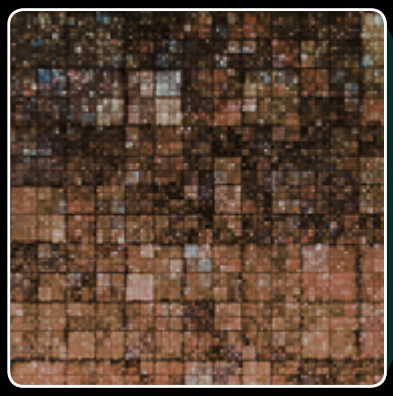
FUJIFILM
Value from Innovation

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.

Collected training data

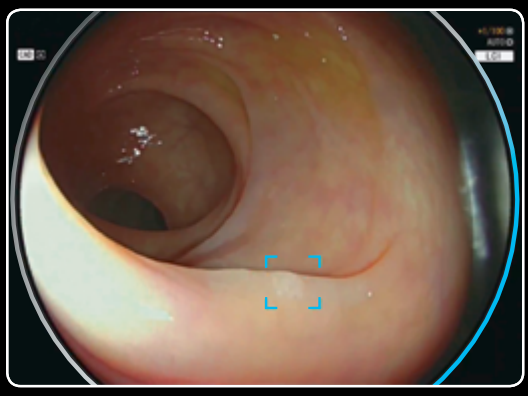


Deep learning

REiLI Medical AI Technology

CADEYE

Detection and marking of polyp by CAD EYE (Computer Aided Detection)



2014

Launched Virtual Grid™ processing, which enhances image contrast and clarity

Virtual Grid

2018

Launched the REiLI artificial intelligence platform and deep learning engines

REiLI

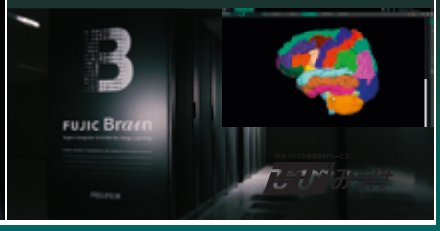
Brain(s) creative AI center installed NVIDIA's DGX-2 for AI development

Launched AI algorithms for bridge crack detection to support infrastructure improvements

Entered joint research agreement with Indiana University School of Medicine for AI medical imaging development

Announced joint collaboration with Lunit Inc. and Salud Digna to help radiologists evaluate AI technologies for diagnostic imaging

Lunit

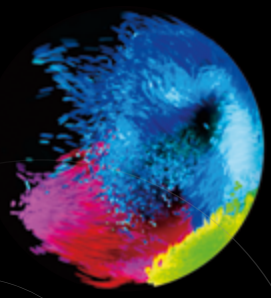


Deep learning

Diagnostic support

ELUXEO MEETS

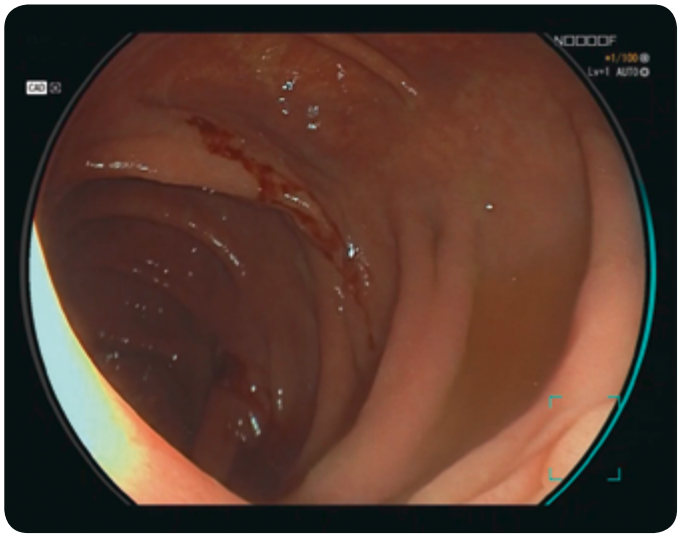
REiLI



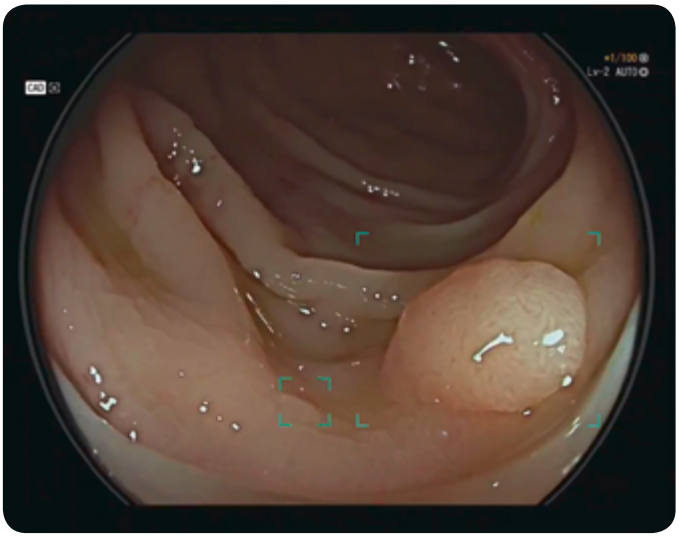
reili.fujifilm.com

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.

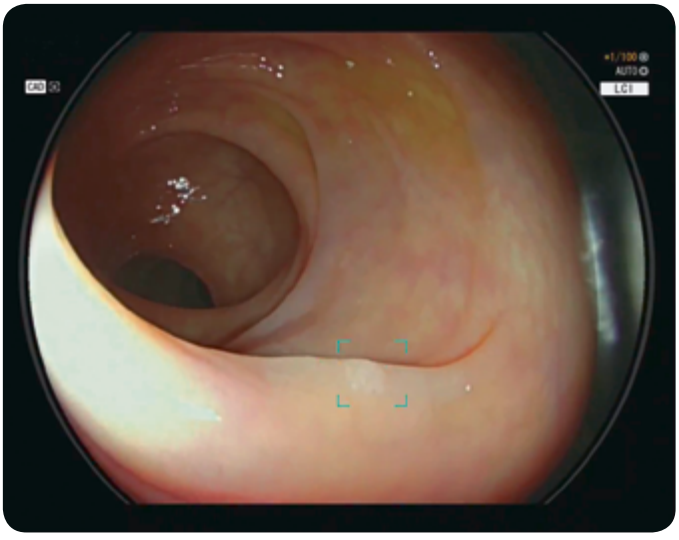


White Light Mode



White Light Mode

LCI Mode

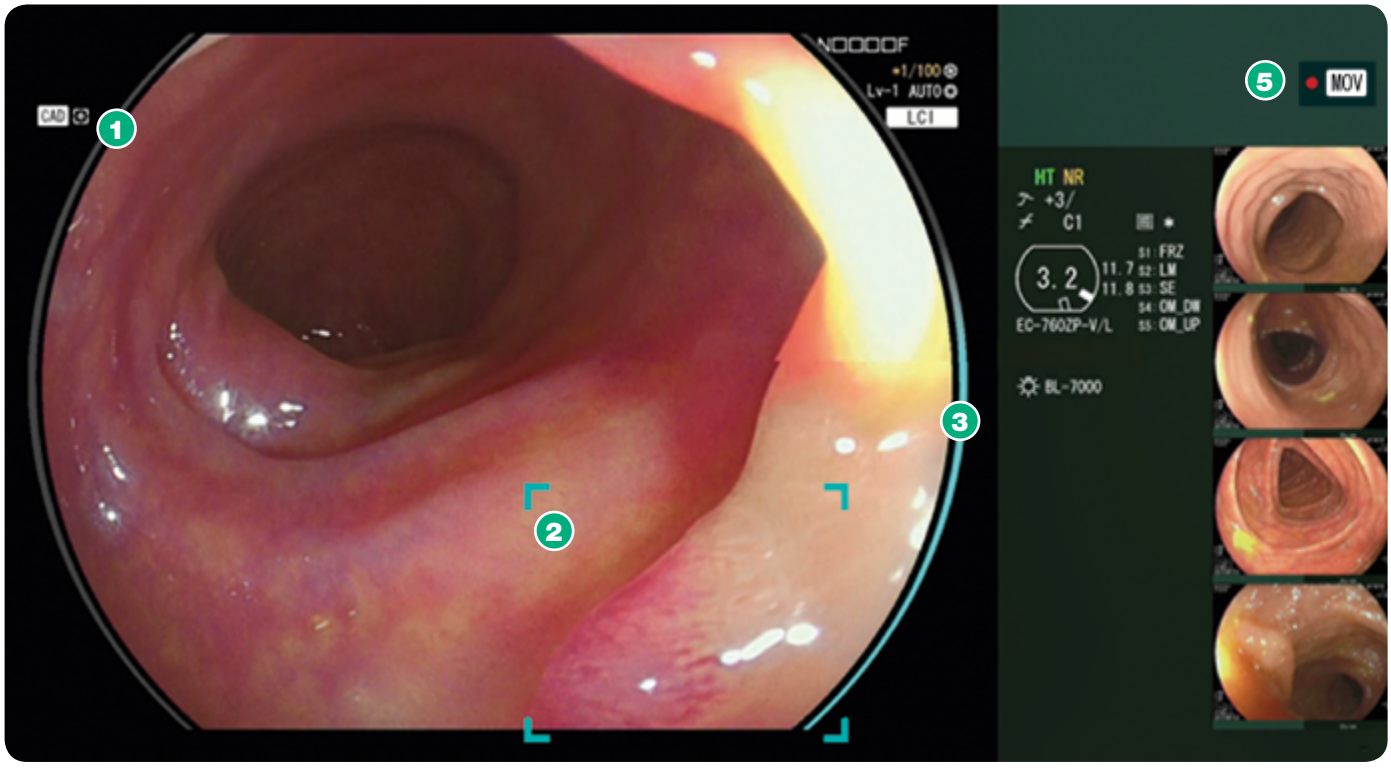


LCI Mode

FUJIFILM
Value from Innovation

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

CAD OFF OFF

CAD 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

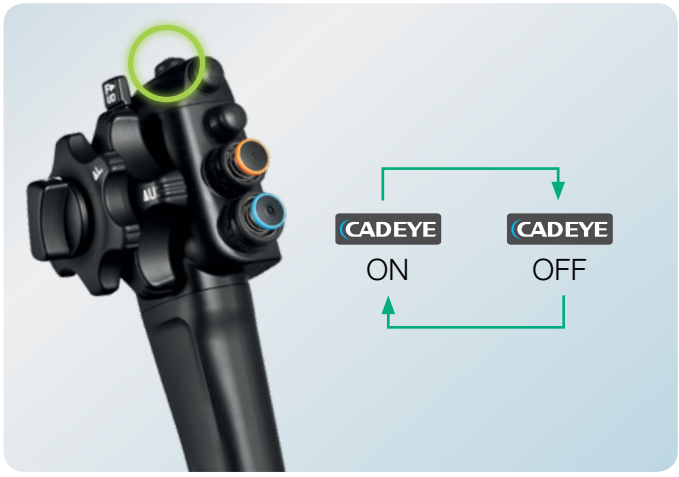
Full HD movies can be recorded controlled via the scope switch or directly at the processor.

Please do not use the video file for diagnoses.

FOR YOUR **DAILY EXAMINATION**

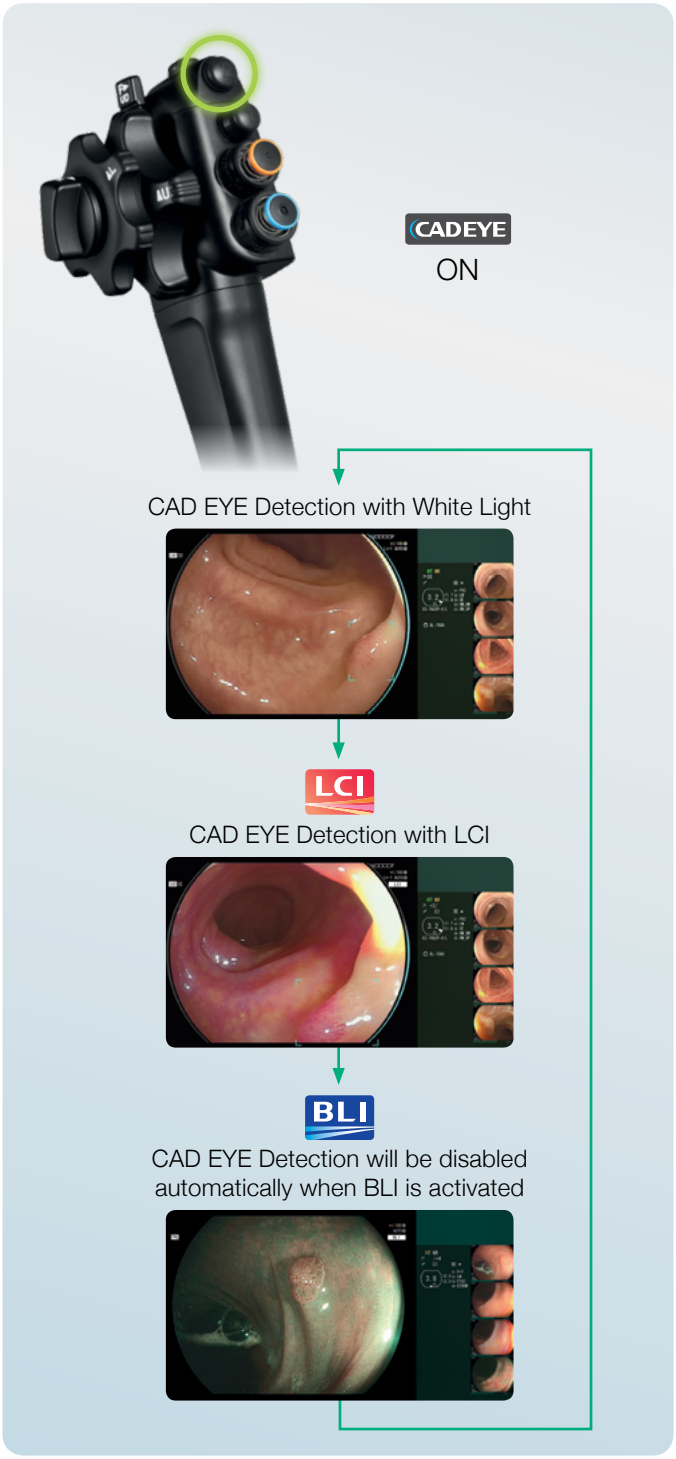
CAD EYE Detection can be activated / deactivated simply by a push on the endoscope button or directly at the processor.

SCOPE SWITCH 3*



* The function of each switch can be defined individually.

SCOPE SWITCH 2



SPECIFICATIONS

EXPANSION UNIT EX-1

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) installment, user manual**

1 CADEYE **FOR COLONIC POLYP DETECTION**

2 **MOVIE RECORDING FUNCTION**

\+ Expansion Unit EX-1

NEVER STOP

ADVANCING DEEPER INSIGHTS IN ENDOSCOPY

FUJIFILM

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