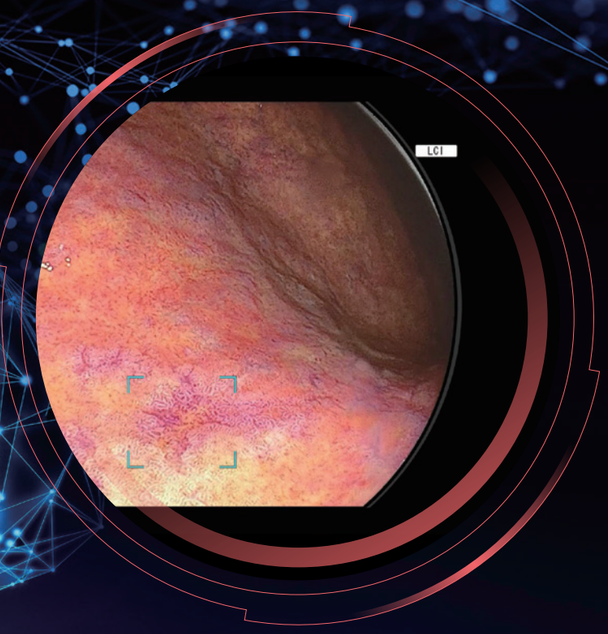
FUJIFILM
Value from Innovation

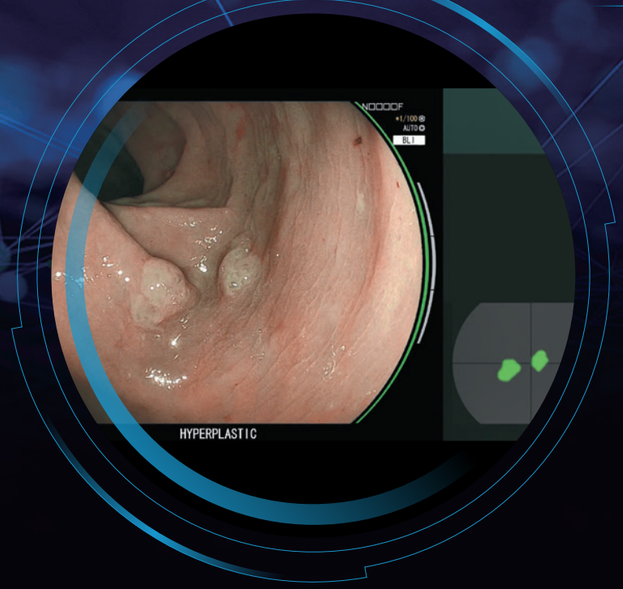



FUJIFILM

Endoscopy Support Program

# CADEYE

Eyes of Artificial Intelligence




REiLI

Medical AI Technology



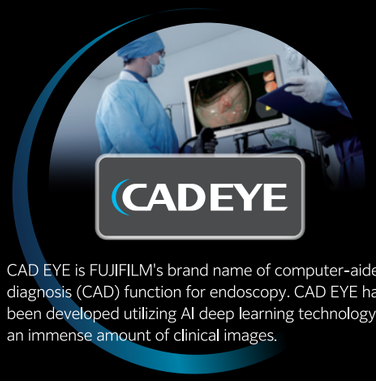
FUJIFILM

**FUJIFILM Corporation**

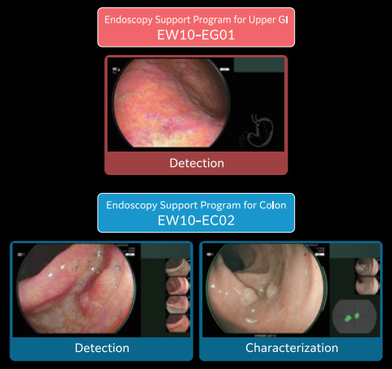
26-30, NISHIAZABU 2-CHOME, MINATO-KU, TOKYO 106-8620, JAPAN
http://www.fujifilm.com/

Z11-N200636

# Providing an extra set of eyes of Artificial Intelligence




CAD EYE is FUJIFILM's brand name of computer-aided-diagnosis (CAD) function for endoscopy. CAD EYE has been developed utilizing AI deep learning technology with an immense amount of clinical images.

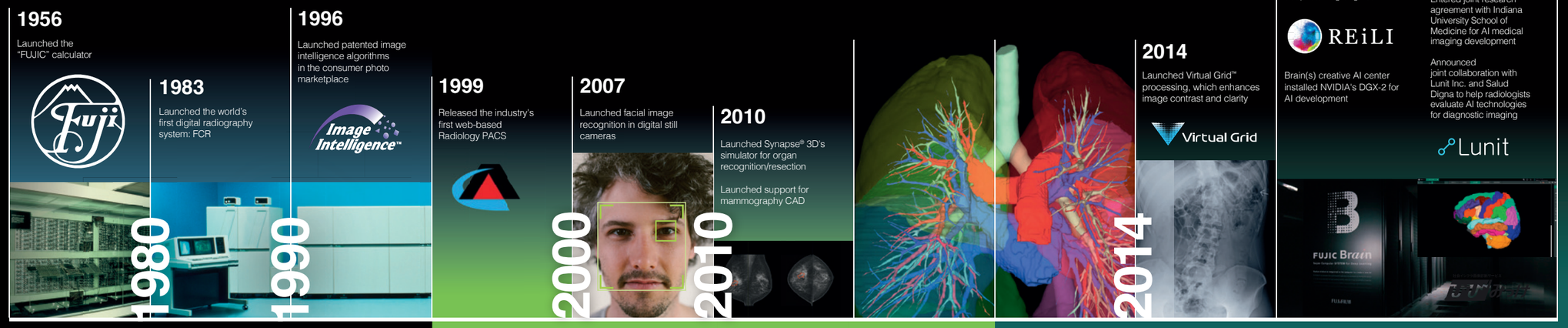



REiLI

## FUJIFILM's Medical AI Technology

FUJIFILM is working to develop a unique collection of image processing technologies and continues to develop the practical application of AI technology, and will continue to develop and supply a wide range of products and services that meet the needs of frontline medicine in various fields, contributing to streamlining clinical work, enhancing the quality of medical care and maintaining and strengthening people's health.

## FUJIFILM'S HISTORY OF INNOVATIONS IN ARTIFICIAL INTELLIGENCE

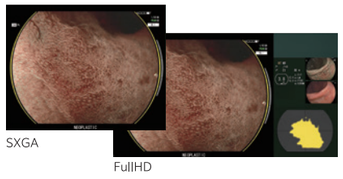



# Expansion Unit EX-1

Expansion Unit Base Software
EW10-SC01

EX-1 provides various functions by installing softwares.

### Still Image Recording
FTP/FTPS/DICOM STORAGE



SXGA FullHD

### Movie Recording
SAMBA STORAGE

FullHD

Still image or movie files with CAD EYE results can be stored to the internal memory of EX-1 or external USB memory. Network function is also available.

### Expansion Unit EX-1

| | | | | |
|---|---|---|---|---|
| Input | DVI-I | x1 | Power connector | AC100-240V 50/60Hz 1.25-0.60A |
| Output | DVI-I | x1 | Dimensions | 370(W)×99(H)×465.6(D)mm(including protrusions) |
| | DVI-D | x1 | Weight | 7.1Kg |
| Control port | RS-232C | x2 | Package contents | |
| | LAN | x2 | Instructions for use | |
| | USB (front)*1 | x1 | RS-232C cable (male-to-female, cross cable) | x1 |
| | USB (back)*2 | x4 | DVI-D cable | x1 |

*1 USB Specification Rev. 2.0 *2 USB Specification 3.1 Gen 1

### Software

| | |
|---|---|
| Product name | EW10-EC02 |
| GMDN | 64419 |
| Generic name | Endoscopic video image interpretive software |
| Compatible system | VP-7000/BL-7000, EP-6000 |
| Compatible endoscope | 700 series endoscope (for colon)*3 |

*3 600/500 series endoscope can be connected, but the CAD function is not available

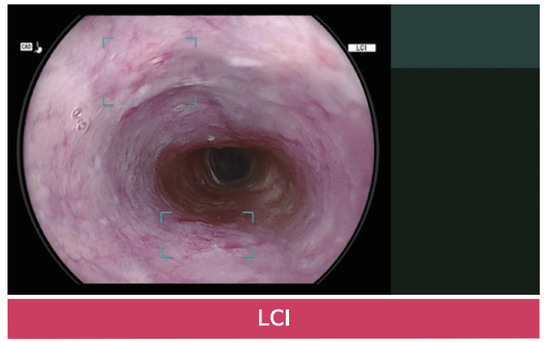
| | |
|---|---|
| Product name | EW10-EG01 |
| GMDN | 64419 |
| Generic name | Endoscopic video image interpretive software |
| Compatible system | VP-7000/BL-7000, EP-6000 |
| Compatible endoscope | 700 series endoscope (for upper GI)*4 *5 |

*4 600/500 series endoscope can be connected, but the CAD function is not available
*5 When EG-740UT is connected, the CAD function is not available.

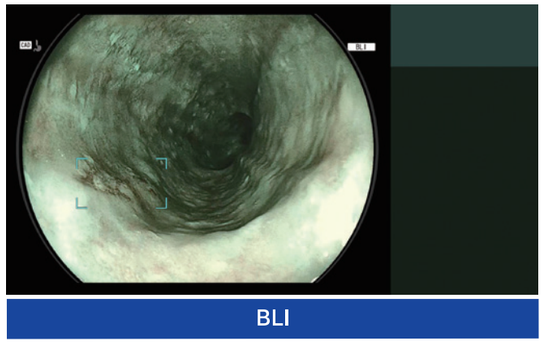
# Detection Mode

## For Oesophageal Squamous Cell Carcinoma Suspect Area

Detects the area that may be oesophageal squamous cell carcinoma and displays it on the main monitor in real-time.



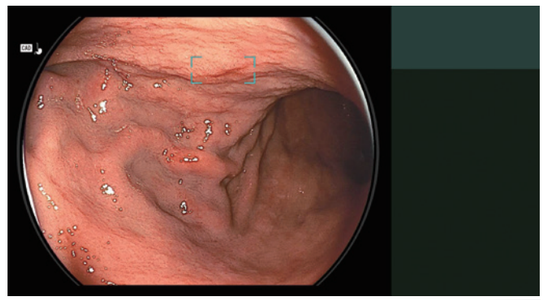
LCI



BLI

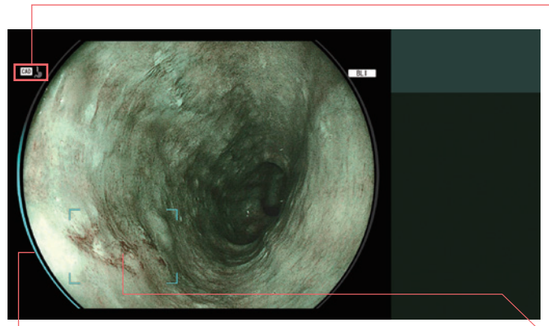
## For Gastric Neoplastic Lesion Suspect Area

Detects the area that may be gastric neoplastic lesion and displays it on the main monitor in real-time.



White Light

LCI



- CAD Status Display
- Visual Assist Circle
- Detection Box

| | Observation Mode | Detection Mode for Oesophageal Squamous Cell Carcinoma Suspect Area | Detection Mode for Gastric Neoplastic Lesion Suspect Area |
|---|---|---|---|
| | BLI | ✓ | – |
| | White Light | – | ✓ |
| | LCI | ✓ | ✓ |

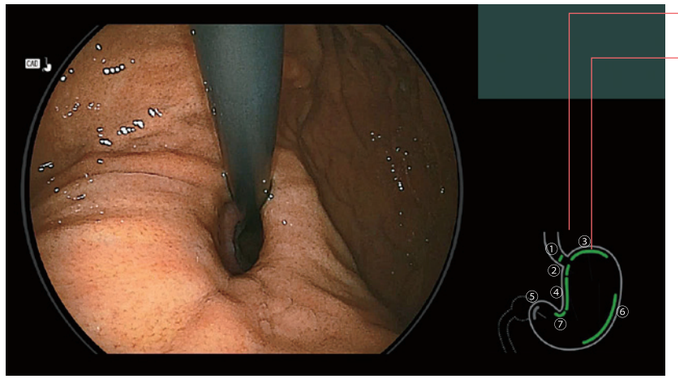
Illuminates the border of the endoscopic image in the quadrant where a lesion is suspected to be present.

Indicates the area where this software suspects that a lesion is present.

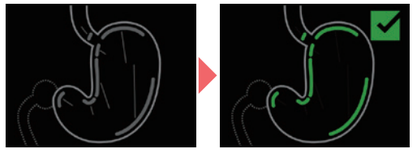
- Notification Sound — Sounds when an area suspected to be a lesion is detected.

## Landmark Photo Checker

When a still image is captured, Landmark Photo Checker is activated to check if the major landmarks in the stomach are properly captured.



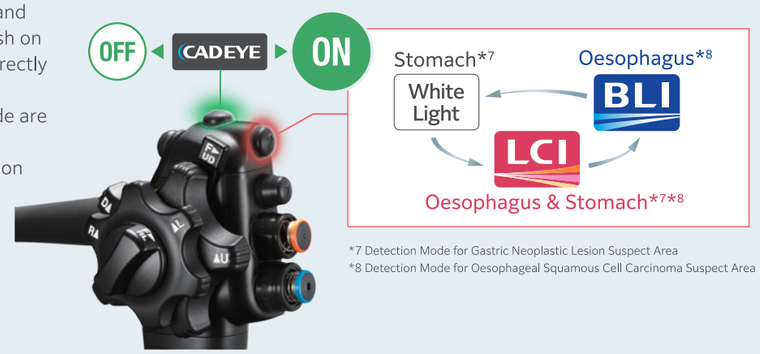
- Landmark Map
- Target Landmarks
  - (1) Oesophagogastric junction
  - (2) Cardia (near field view)
  - (3) Cardia and fundus
  - (4) Body, lesser curvature (retroflex view)
  - (5) Pylorus (near field view)
  - (6) Body, greater curvature (forward view)
  - (7) Angulus



Before examination — Complete state

## Seamless CAD EYE Activation

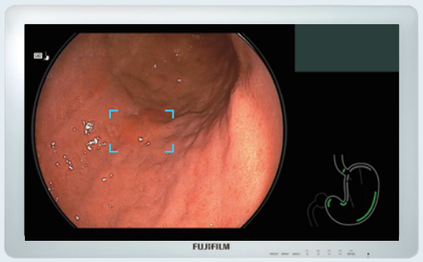
CAD EYE can be activated and deactivated simply by a push on the endoscope button or directly at the processor.
The types of Detection Mode are automatically switched depending on the observation mode selected.




*7 Detection Mode for Gastric Neoplastic Lesion Suspect Area
*8 Detection Mode for Oesophageal Squamous Cell Carcinoma Suspect Area

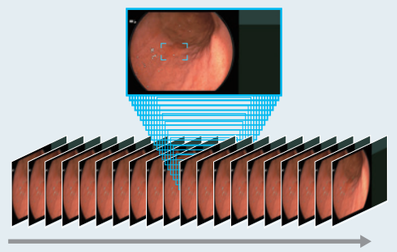
## Single Monitor Interface

Graphical user interface of CAD EYE is integrated and displayed together with an endoscopic image on a single monitor. It does not interfere with clinical images and minimizes required eye movement.



## Real-time Detection Support

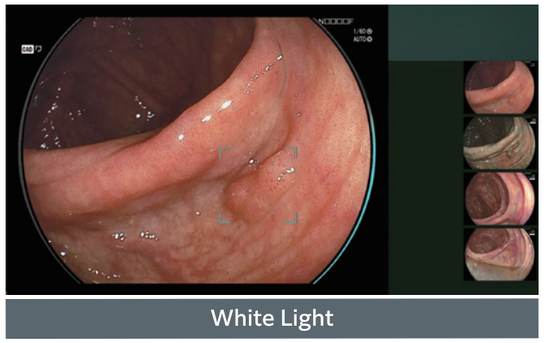
High speed processing technology enables the analysis of the endoscopic video and the display of the detection result in real-time without freezing.



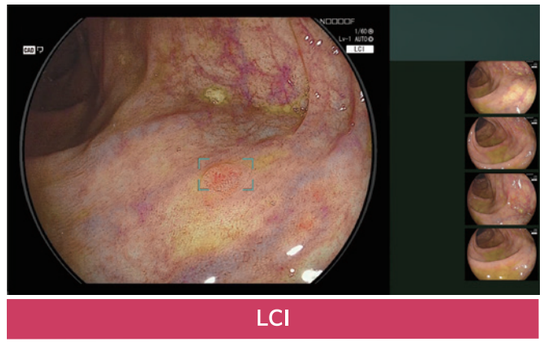
# Detection Mode

White Light LCI

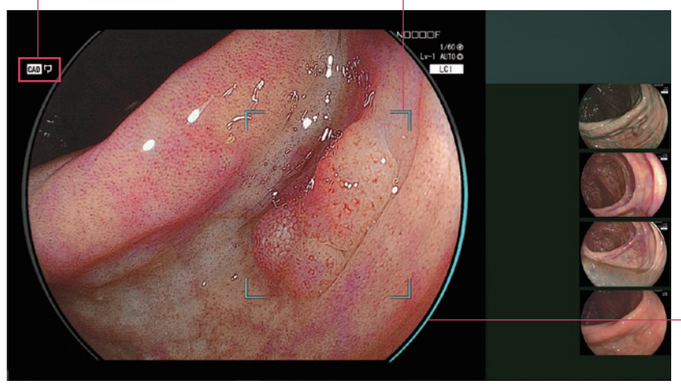
Detects the area that may be a colonic polyp and displays it on the main monitor in real-time.



White Light



LCI



CAD Detection Mode

Detection Box

Indicates the area where this software suspects that a colonic polyp is present.


The thickness of the Detection Box is selectable according to the preference of the users

Visual Assist Circle

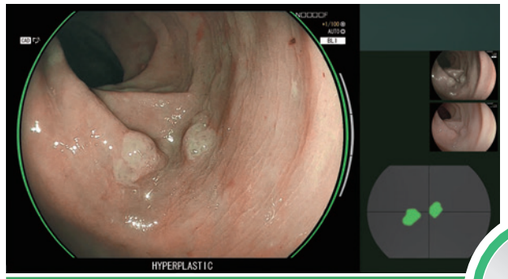
Illuminates the border of the endoscopic image in the quadrant where a colonic polyp is suspected to be present.

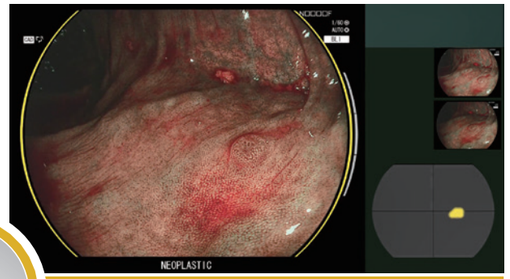
Notification Sound Sounds when an area suspected to be a colonic polyp is detected.

# Characterization Mode

BLI

Analyzes if a polyp is hyperplastic or neoplastic in real-time and without freezing or zooming. The characterization result is visually indicated by the use of different color codes in the Position Map.



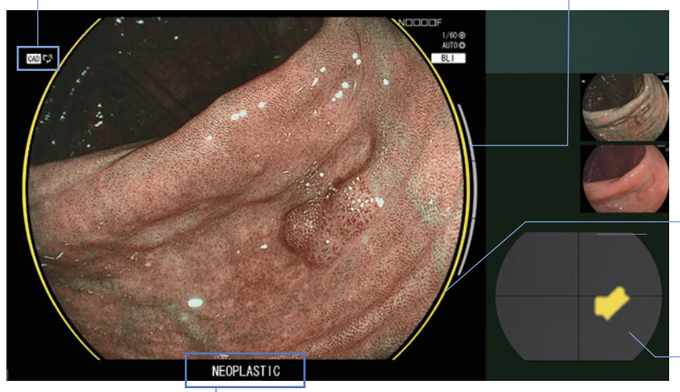

Colonic polyps

HYPERPLASTIC

Hyperplastic polyp SSL

NEOPLASTIC

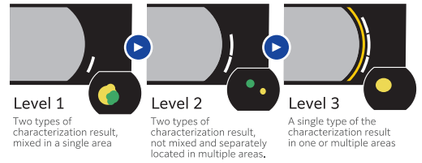
Neoplastic polyp




CAD Characterization Mode

Status Bar

Indicates the status of characterization analysis regarding the suspicious area



Level 1
Two types of characterization result, mixed in a single area

Level 2
Two types of characterization result, not mixed and separately located in multiple areas.

Level 3
A single type of the characterization result in one or multiple areas

Visual Assist Circle


Displays either yellow or green color according to the characterization results.

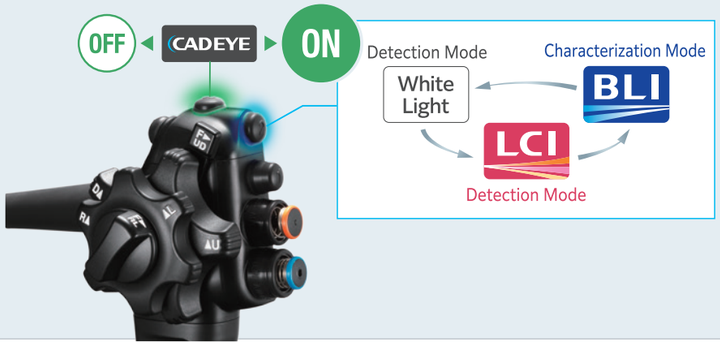
Position Map

Indicates the position of the area where this software is characterizing.

Characterization Result HYPERPLASTIC / NEOPLASTIC

## Seamless CAD EYE Activation

CAD EYE can be activated and deactivated simply by a push on the endoscope button or directly at the processor. When CAD EYE is on, Detection Mode and Characterization Mode are automatically activated depending on the observation mode selected.




## Real-time Detection and Characterization Support

High speed processing technology enables the analysis of the endoscopic video and the display of the detection and characterization result in real-time without freezing.