

Endoscopy CAD System OIP-1

## ENDO-AID

Quick Reference Guide





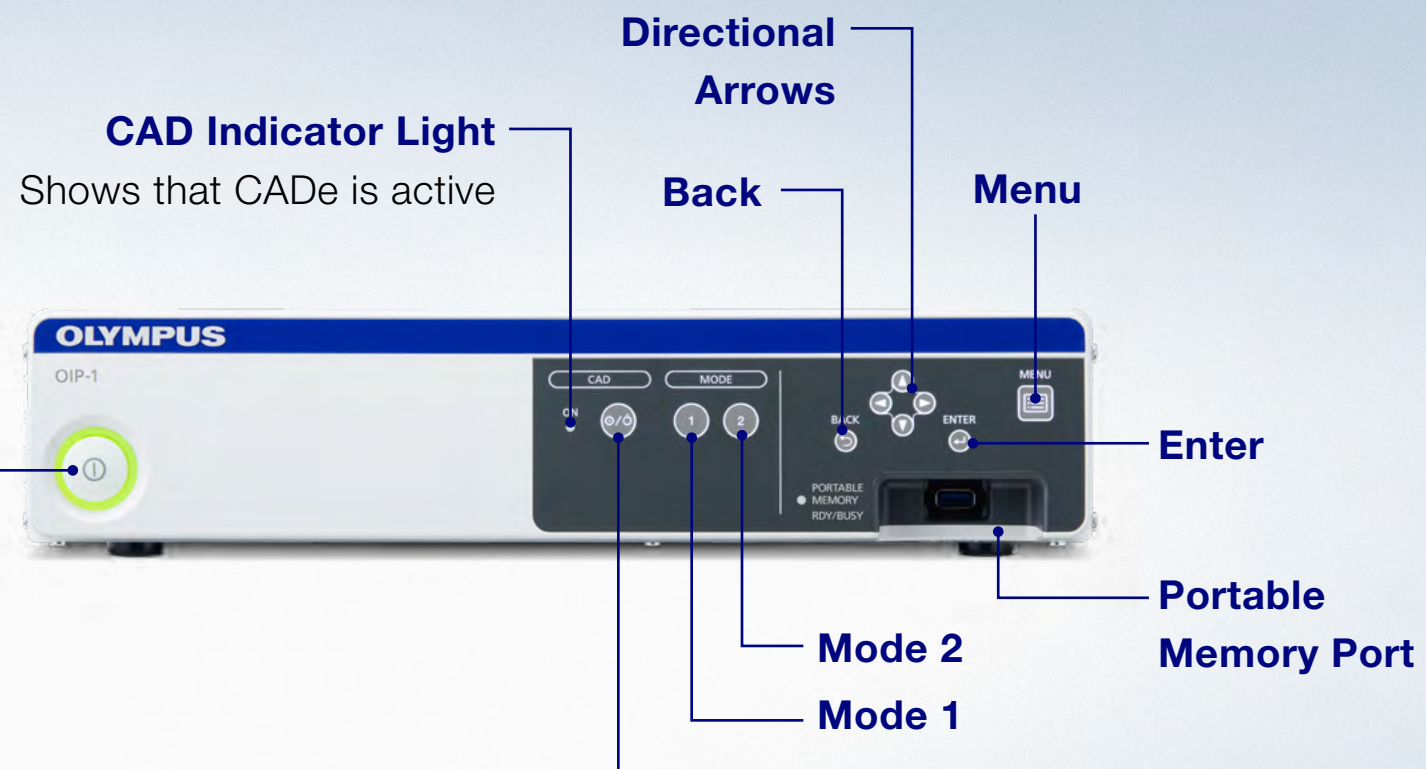
# Getting to Know ENDO-AID

## Computer-Aided Detection (CADe) Application

**ENDO-AID CADe** is a high-performing computer-aided detection application for colonoscopy that uses artificial intelligence (AI) to suggest the potential presence of lesions such as colonic polyps, malignant neoplasms and adenomas.

### Switching the System On

Turn the system on by pressing the power switch. The power indicator lights up. Keep the system on for all procedures even if the CADe functionality will not be used.



### Activating the CADe Application

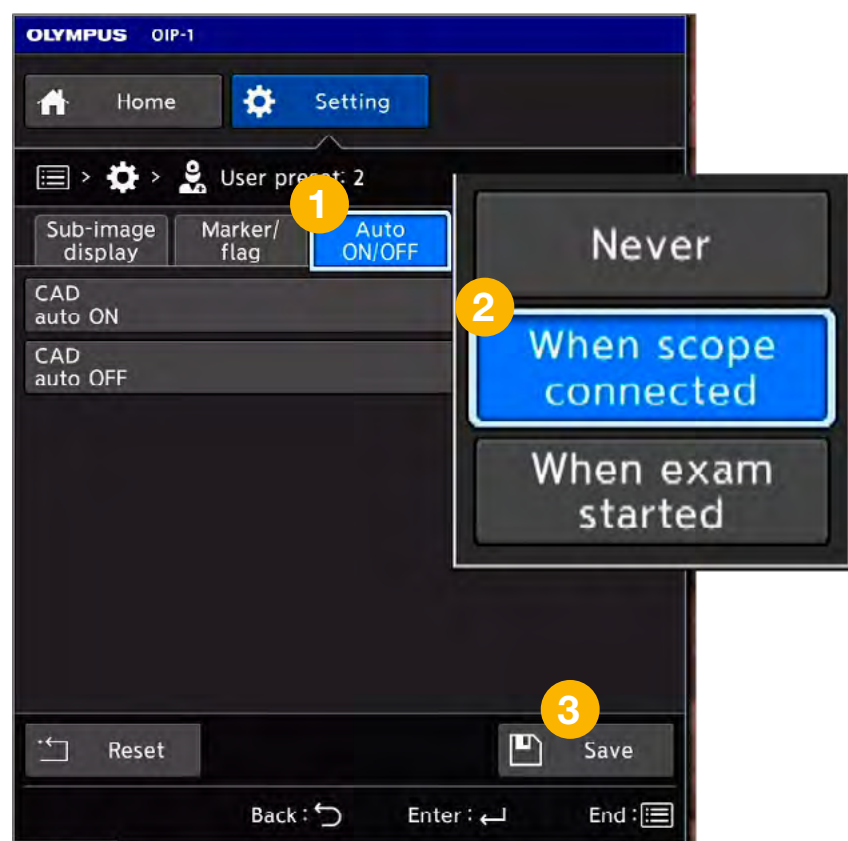
Press the CAD button or the Mode 1 button to turn on the CADe application. To turn it off, either push the CAD button once or press the Mode 1 button for few seconds.

# Automatic Activation/Deactivation

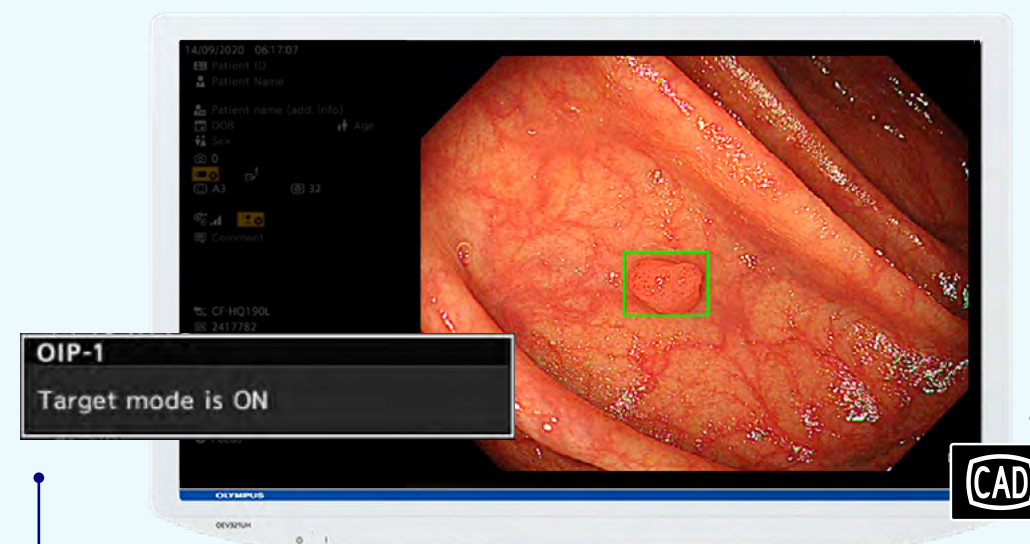
## Activating/Deactivating of the CADe Application

### How to Enable ENDO-AID CADe to Activate Automatically


To set an automatic activation of the CADe application when the scope is connected, navigate to the section “Auto ON/OFF” in the menu setting **1**. Select “When scope is connected” **2** and save the changes **3**. Do the same for the option “CAD auto OFF” so that the system turns off when the scope is disconnected.



**The CAD icon is visible when the CADe application is active.**



**A window in the left part of the screen indicates when Target Mode is on.**

 A CAD icon with a cross indicates that the application is in standby — for example, when NBI or RDI is active. As soon as the user goes back to WLI or TXI, the CADe application will switch on automatically.

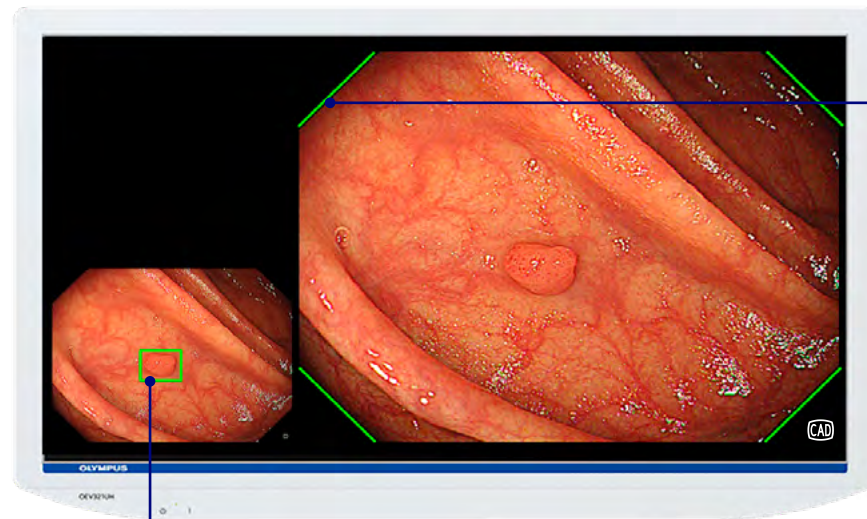


## Two Visualization Modes

### Users Can Select Their Preference

#### Normal Mode

**Flags** announce detection by highlighting the corners on the endoscopic image



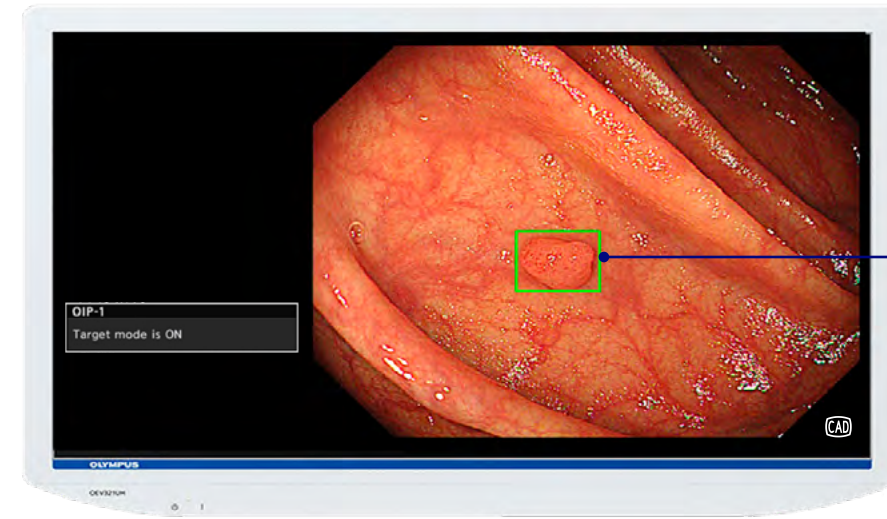
**Findings** are surrounded by a marker **in a subimage**

#### Advantage:

Less distraction during the procedure — thanks to a clear endoscopic image.

#### Target Mode

**Findings** are surrounded by a marker directly **on the endoscopic image**



#### Advantage:

Feedback directly on the main image.

The application is thought to be operated preferentially in Normal Mode. If the users want a better visualization of a certain marker, they will shortly toggle to Target Mode per default; the system will then return back to Normal Mode a few seconds afterwards.

Users willing to use Target Mode preferentially should select “unlimited” as the “Target Mode duration” option of the “Marker/flag” settings menu.

NOTE: The system will start in Normal Mode every time even if it was switched off in Target Mode.

# Configuration of Visualization Modes

## Setting Parameters according to User Preferences

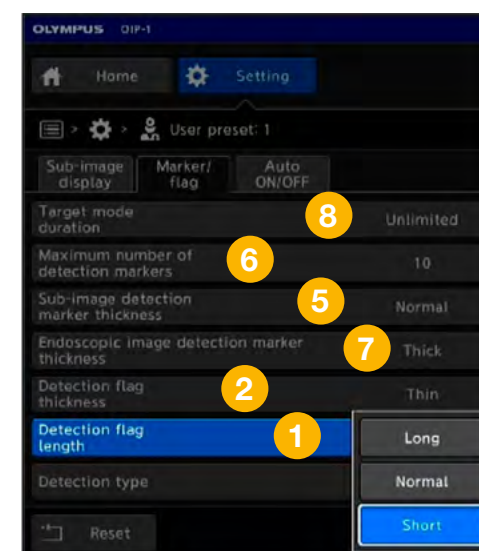
Different parameters such as the visualization of flags, subimage position and marker display can be configured according to user preferences.

### Configurations for Normal Mode

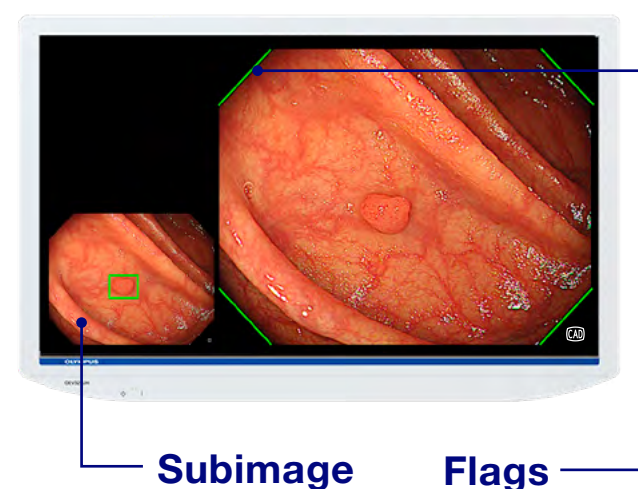
- Length and thickness of the flags ① ②
- Subimage position and size ③ ④
- Marker thickness in subimage ⑤
- Maximum number of markers shown (up to 10) in the subimage ⑥

### Configurations for Target Mode

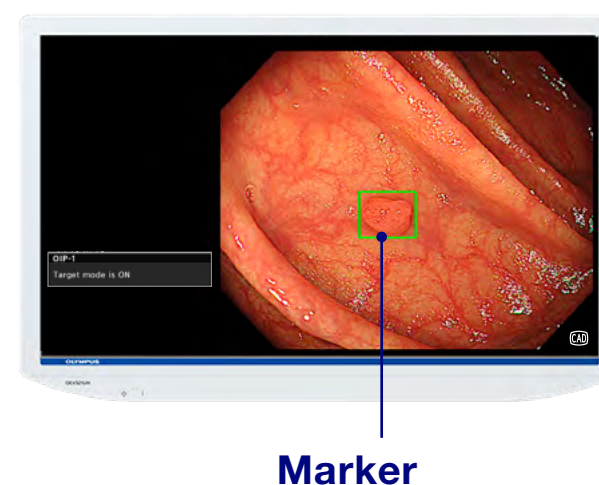
- Marker thickness ⑦
- Maximum number (up to 10) of markers shown ⑥
- Duration of Target Mode after transitioning to it ⑧ (e.g., setting it to unlimited).



### Normal Mode

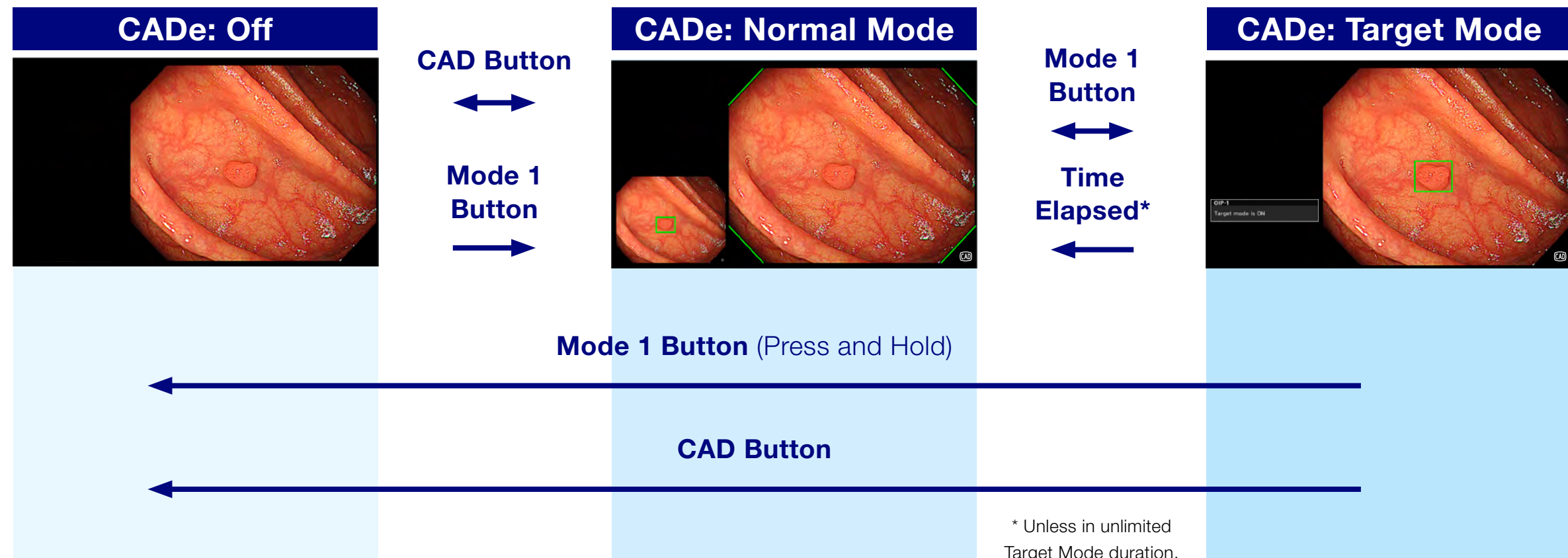


### Target Mode



# Switching between Visualization Modes

## Using the CAD and Mode 1 Button



In the “remote switch” section of your CV-1500 user presets you can set the scope switch of your preference to control your ENDO-AID CAdE. Look for the following options:

**Option dev. control 1:** Emulates the CAD button, i.e., to turn CAdE on and off.

**Option dev. control 2:** Emulates the MODE 1 button, i.e., to toggle between visualization modes.

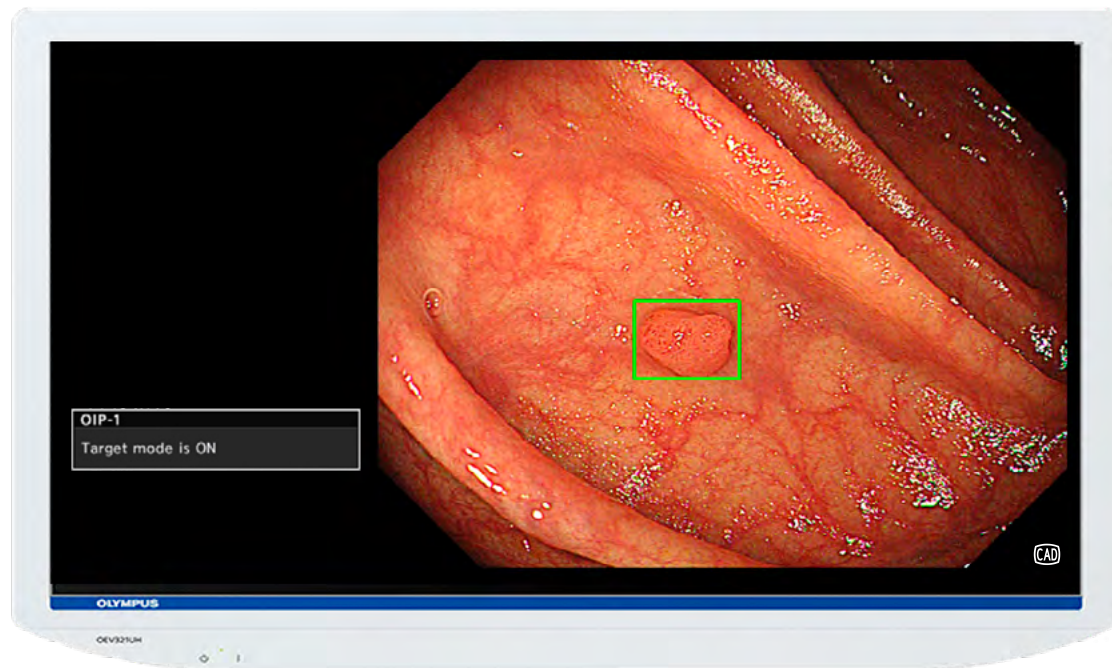
It is suggested to use “Option dev. control 2” on switch 2. This way, the user can easily start ENDO-AID CAdE and toggle through the visualization modes.





# Using the Target Mode Preferentially

## Work-around



When preferentially using the Target Mode (unlimitedly active), the user might occasionally want to turn off the CADe support during an operation — for example, to avoid any possible intrusion during the procedure.

However, when switching it on again, the application will restart in Normal Mode, so that the user must additionally push the Mode 1 button in order to activate Target Mode again.

To avoid this additional last step, a work-around would be to toggle between Normal Mode and Target Mode instead of switching the application off completely. In this case, it is recommended to configure the visual settings of Normal Mode in a way that the subimage is switched off completely and the indicating flags are short **1** and thin **2**, thus reducing any disturbances.



# Detection Types A and B

## Sensitivity and Specificity Settings



**Users can choose between two different detection types, which differ in their sensitivity and specificity.**

Users who wish to see more polyps, even very small ones, use Type A. Users who want a lower sensitivity, select Type B. The preferred detection type can be configured in the “Detection type” section of the “Marker/flag” menu of the settings.

Detection Type	Description
Type A	Detects more potential colorectal polyps than Type B.
Type B	Tends to suppress more false detection than Type A.



# Colon CAdE

## EVIS X1 Video Colonoscope

CF-EZ1500DL/I	CF-HQ1100DL/I	CF-XZ1200L/I
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## EVIS EXERA III Video Colonoscope

CF-HQ190L/I	CF-H190L/I	CF-H185L/I	PCF-PH190L/I
PCF-H190L/I	PCF-H190DL/I	PCF-H190TL/I	PCF-HQ190L/I

## EVIS LUCERA ELITE Video Colonoscope

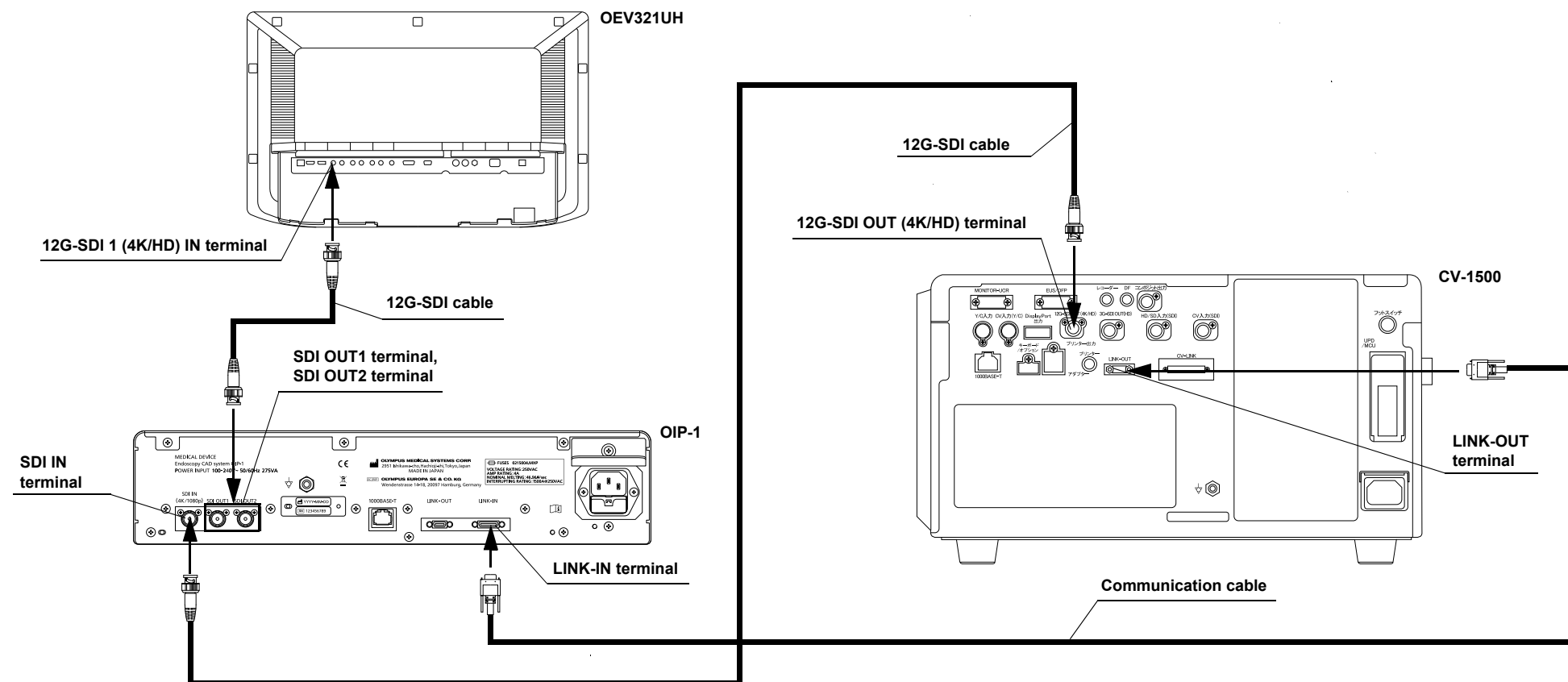
CF-HQ290ZL/I	CF-HQ290L/I	CF-H290L/I	CF-H290ECI
PCF-H290ZL/I	PCF-H290DL/I	PCF-H290TL/I	PCF-H290L/I

\* Some endoscopes might not be available in certain areas.



# ENDO-AID – Quick Reference Guide

## Basic Connection Diagram (Monitor and CV-1500)



This quick reference guide is a mere summary of some important procedure steps and/or product information. It is not meant to replace the instructions for use. Any user of this product must at all times observe all mandatory information for the product — found, in particular, on the labels and the instructions for use.

ENDO-AID CAdE is a supporting tool, and the user should not rely solely on the device for detection of abnormalities.

As medical knowledge is constantly growing, technical modifications or changes of the product design, product specifications, accessories and service offerings may be required.

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