

EU-ME2
PREMIER

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PLUS

QUICK-REFERENCE GUIDE – CH-EUS MODE

Contrast Harmonic EUS (CH-EUS) Mode



- 1 Visualize the target for contrast imaging in the B mode image.



- 2 Switch to CH-EUS mode and adjust the **CH GAIN** of CH-EUS images (the right image in the dual display), if necessary.

Recommended Level

Tissue components cannot be recognized in CH-EUS images.



- 3 Press the REC key to record a movie (the maximum length of one movie is three minutes).



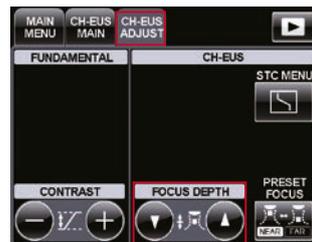
- 4 Inject a contrast agent for harmonic imaging.
- 5 Press the **TIMER** key to start timing until the injection of the contrast agent is complete.

Following injection, it takes about 20 seconds before the contrast agent can be visualized.

CH-EUS MAIN



CH-EUS ADJUST



CH Gain

The **CH GAIN** buttons can set the gain of the CH-EUS images in 20 steps. Adjust the level of the CH GAIN before injecting the contrast agent, if necessary.

H-MI

The **H-MI** button changes the MI value to a higher level. The H-MI button can show the CH-EUS images with improved sensitivity in deep regions.

CH RES

The **CH RES** button selects the resolution in CH-EUS mode. The initial setting is CH-P; so switch to CH-R if the resolution needs to be improved.

REC

The **MOVIE TYPE** button selects the type of movie.

GENERAL: Regular movie
TIC: Movie for TIC analysis

Make sure to select the TIC for TIC analysis. Some keys cannot be used when recording TIC movies.

The **REC** button will start recording a movie (the maximum length of one movie is three minutes).

Manual Flash

The **MANUAL FLASH** button transmits high acoustic pressure in the form of ultrasound waves for the specified number of times to destroy the contrast agent.

Focus Depth

Select the **CH-EUS ADJUST** tab and press the **FOCUS DEPTH** buttons to adjust the focal depth of the CH-EUS images.

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Attaining Movies for TIC Analysis



- 1 In CH-EUS mode, visualize the target area and adjust and DISPLAY (RANGE) and GAIN etc.

* Such settings should be optimized as no changes can be made during TIC recording. Firmly hold the ultrasound endoscope so the target area (cross-sectional surface) is kept stable.

- 2 Change the **MOVIE TYPE** to TIC and press the REC key.



- 3 Inject a contrast agent.

- 4 Press the **TIMER** key at the same time as the contrast agent is injected and start the stopwatch operation.

- 5 When the movie is of appropriate length, press the **REC** key to stop recording (recording time is up to three minutes per movie).

TIC Analysis Procedures



DATABASE key

- 1 Press the **DATABASE** key on the keyboard and the DATABASE menu appears.

- 2 Press the **TIC Analysis** button in the menu, select the target image from the TIC images, and press the **Execute** button.



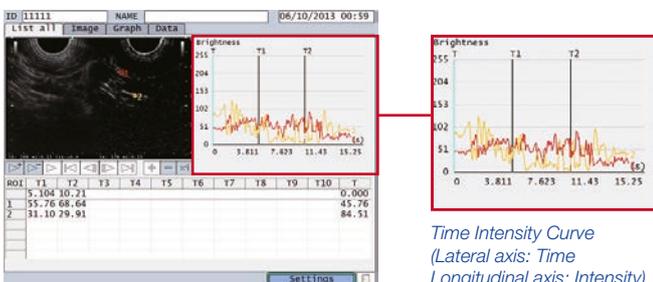
ROI setting button

Target for TIC Analysis

Execute

- 3 Press the **ROI setting** button on the displayed image, allocate the ROI to the part where TIC Analysis is planned, and press the **Execute** button.

* In the example on the left, there are two ROIs (marked as red and yellow).



Time Intensity Curve
(Lateral axis: Time
Longitudinal axis: Intensity)

- 4 The Time Intensity Curve corresponding to the set ROIs is displayed as a graph.

- 5 Press the **SAVE/REC** key on the keyboard and save the displayed screen.

* This is applied when still-image capture is assigned to the recoding key.

- Be sure to use the ultrasound contrast agent according to the instructions attached to the product. Olympus will not assume liabilities for the risks inflicted on patients resulting from misuse or inappropriate application of a contrast agent.
- For more information about the side effects of the contrast agent on patients, contact the manufacturer of the contrast agent.

Specifications, design, and accessories are subject to change without any notice or obligation on the part of the manufacturer.

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