NIDEK

Optical Coherence Tomography RS-330

Quick Reference Guide

This Quick Reference Guide briefly explains the procedures for when the Optical Coherence Tomography RS-330 is used.

The procedures are explained on the precondition that the system has already been installed. For details of the system installation, refer to the operator's manual for the system main body.

For the details of the operating procedure, refer to the operator's manuals for the RS-330 system main body and NAVIS-EX.

⭘ **Turning ON power to the system and starting Software**

> ⚠ **WARNING**
>
> • Connect the power plug to a grounded outlet.
>
>   Electric shock or fire may occur in the event of malfunction or power leakage.

1 Turn on (|) power to the isolation transformer.

2 Turn on (|) the power switch (*A) of the system main body.

3 Turn on the power switches of the computer monitor and other peripheral devices of the computer.

4 Turn on the power switch of the computer.
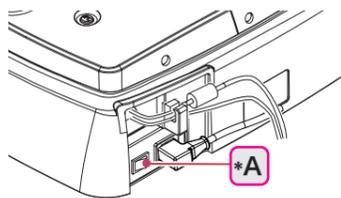
5 Double-click the NAVIS-EX icon on the desktop.

The log-in screen appears.

6 Input the log-in name and password.

At the time of the initial start-up, the log-in name "RS-User" is displayed. The password is "user".

Both the log-in name and password are case-sensitive.

7 Click "Log in".

NAVIS-EX is activated.

8 Register the patient in NAVIS-EX.

1) Click the New button (*A).

The Patient Information-New dialog appears.

2) Input the information of the patient to register.
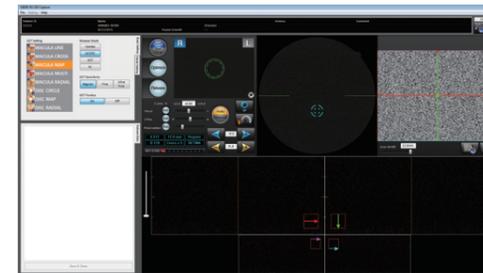
3) Click the OCT Capture (RS-330) button.
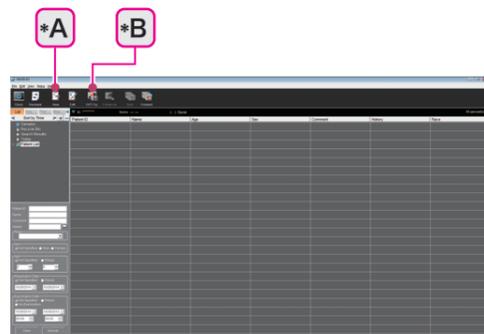
> 📝 **Note**
>
> • To capture images for the registered patients, click the patient, then click the OCT Capture button (*B).
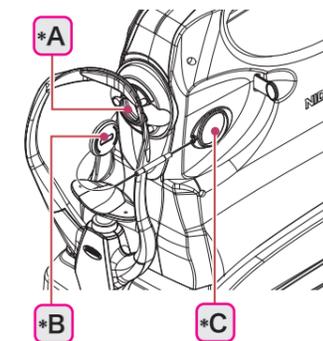
**9** RS-330 Capture activates. Then the system main body and the computer are connected.

⭘ **Preparing for image capture**

1 Remove the objective lens cap (*B) from the objective lens (*A).

Attach the removed objective lens cap to the cap holder (*C).

2 Check the movable range of the main unit.

1) Move the main unit fully to the patient side using the joystick.

2) Confirm that the main unit can be moved to the edge of the base unit.
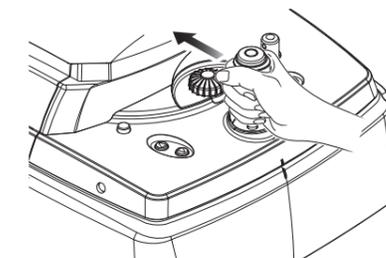
3) If the main unit stops halfway, press and hold the safety stopper, then move the main unit to the edge of the base unit.
   After moving the main unit, release the safety stopper.
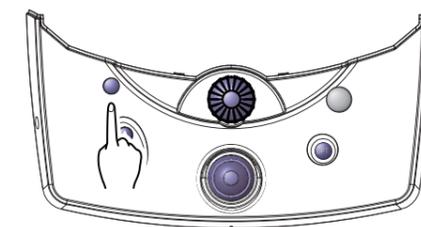
3 Conduct patient preparation.

1) Wipe the forehead rest (*A) and the chinrest (*B) with a clean cotton swab or gauze dampened with rubbing alcohol.

2) Hold the joystick (*C) of the system main body, and pull the main unit fully to the operator side.

3) Instruct the patient to remove the eye glasses or contact lenses, then have them sit in front of the system main body.

4) Have the patient place their chin on the chinrest as far forward as possible with their forehead resting gently on the forehead rest.

5) Align the height of the patient's eyes with the eye level marker (*E) using the chinrest up/down buttons (▲ , ▼)(*D) .
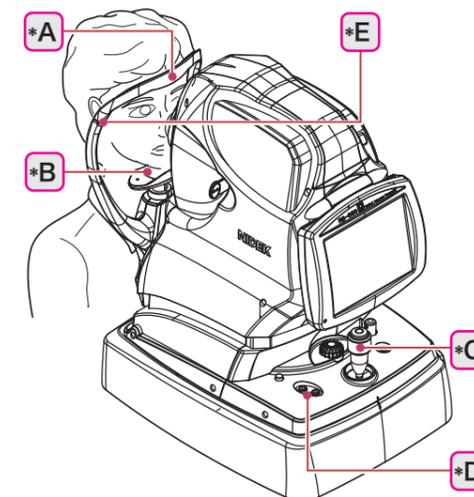
Please turn over.

○ Automatic image capture

1 Give instructions to the patient.

"Look into the device. When you see a green blinking lamp, open both of your eyes wide and focus on it. Refrain from blinking as much as possible."

2 Display the patient's eye in the touch screen of the system main body.

Moving the joystick horizontally moves the main unit horizontally.
Rotating the upper part of the joystick moves the image capturing vertically.
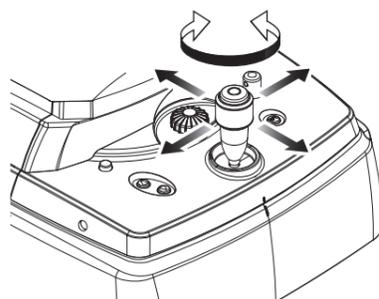
3 Move the main unit and the image capturing unit so that the patient's eye is displayed in the center of the screen, and that the electronic working dot (*A) is displayed.

If the limit indicator (red arrow) appears, operate the joystick to move the main unit and the image capturing unit in the indicated direction.

Forward/backward (↗ ↗ / ↗ ↗)

Right/left (◀◀◀ / ▶▶▶)

Up/down (▲ / ▼)

Displaying the electronic working dot automatically performs alignment, focusing, and optimization. After that, images are automatically captured (when the auto shot function is enabled).

In OCT/FC release mode OCT/FC , images are captured in the order of OCT image capture and color fundus image capture.

∗A

4 Check the captured image.

In addition to the images, check the SSI (*A) and image averaging result (*B) to evaluate the quality of the OCT image.
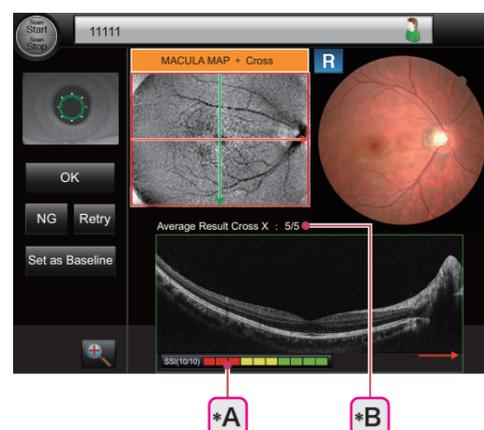
  • SSI
    As the SSI becomes higher, a finer image can be obtained.

SSI(3/10) � bars — Low quality
SSI(6/10) — Middle quality
SSI(10/10) — High quality
   Red   Yellow   Green

∗A   ∗B

  • Image averaging result
    The number of successfully averaged images out of the number of the specified HD scan images is displayed. As the number of successfully averaged images becomes larger, finer images can be obtained. The frame color of the OCT image changes depending on the proportion of successfully averaged images.

    70% or higher: Green
    51 to 69%: Yellow
    50% or lower: Red

Cross X : 5/5
∗C   ∗D   ∗E
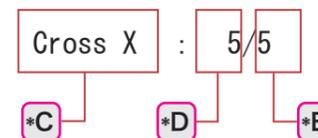
*C	Scan line of the displayed averaging result
*D	The number of successfully averaged images
*E	Number of HD scan images

5 Press tihe OK botton.

Displays the thumbnail of the captured image in the Release Data tab of RS-330 Capture.

The check box shown to the left side of the thumbnail is selected to allow saving of the data.

**6** Capture images of the other eye in the same manner.

Instruct the patient to close their eye before starting the next image capture.

Let the eye rest to avoid image capture failure by blinking.

7 Save the captured images to the database.

Click the "Save & Close" button Save & Close of RS-330 Capture.

The checked images are transferred to the database and RS-330 Capture is closed.
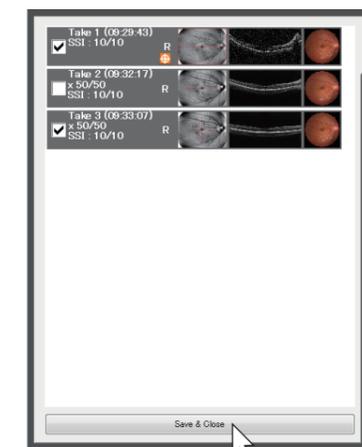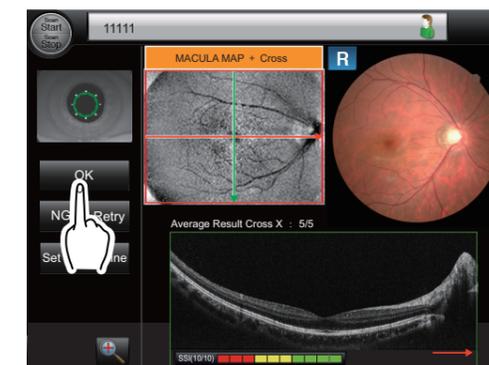
○ Finishing image capture

1 Close RS-330 Capture and NAVIS-EX.

2 Shut down Windows.

3 Turn off power to the computer peripheral devices.

4 Push the compensation lens select lever (*A) to the deepest position (**0** position).

5 Turn off (○) the power switch of the system main body.

Power can be turned off regardless of the displayed screen.

6 Turn off (○) power to the isolation transformer.

7 Place the objective lens cap on the objective lens.

8 Clean the forehead rest and chinrest, then place the dust cover on the system main body.

∗A