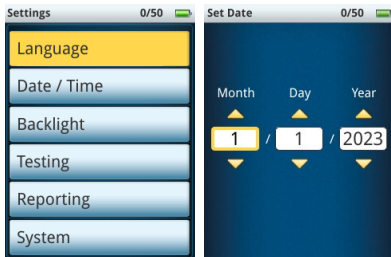## 1. SET UP

1 Press the power button.

2 Connect the Sensor Strip lead wire as shown below (cable towards the top of device).

3 Navigate using the joystick to "Settings" and select your "Language" and "Date/Time."

Settings	0/50
Language	
Date / Time	
Backlight	
Testing	
Reporting	
System	

| Set Date	0/50
Month	Day	Year
1	1	2023

2. CONFIGURE DEVICE FOR TESTING

1 Choose the testing protocol you'd like to use:
- Go to "Protocol" then "Change"
- Choose a protocol from the list, then press "Save"

   TIP: *Candela protocols (ending in cd), should be used with **DILATED** patients. Troland protocols (ending in td) can be used with either **NON-DILATED** or **DILATED** patients.*
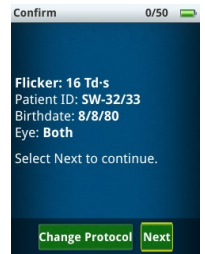
2 Select "New Test" on the main menu.

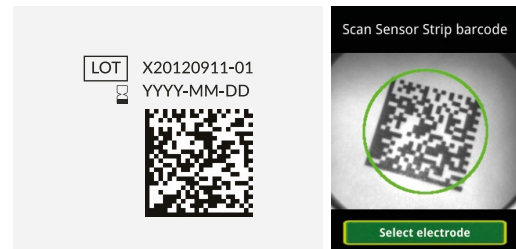| 10/30/15, 1:14 PM	0/50
New test	
Results	
Settings	
Protocol	
DR Assessment	
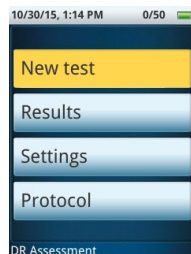
3 Use the joystick or patient data barcode application to enter the patient ID and birthdate. You can download the barcode application at lkc.com/barcode.

Enter Patient ID	0/50
SW-32/33	

Enter Birthdate	0/50
Month	Day	Year
8	8	1980
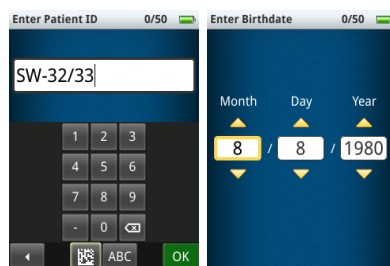
4 Confirm that the protocol, patient ID, and birthdate are correct. Select "Next" to proceed, or select "Change Protocol" to choose a different protocol if needed.

Confirm	0/50
Flicker: **16 Td·s**	
Patient ID: **SW-32/33**	
Birthdate: **8/8/80**	
Eye: **Both**	
Select Next to continue.	
Change Protocol	**Next**

5 Scan the Sensor Strip barcode from packaging.

LOT   X20120911-01
YYYY-MM-DD

Scan Sensor Strip barcode

Select electrode

3. PATIENT PREPARATION

1 Apply a pea-sized amount of Nuprep® Gel on a clean pad and using a gentle circular motion clean below each eye and temple area where the Sensor Strip will be placed.

2 Wipe the area under the lashes with a tissue to ensure that the surface is dry prior to applying the Sensor Strip.

4. PLACE SENSOR STRIPS AND CONNECT CLIP

1 Hold the Sensor Strip by the connection tab while placing it as follows:
- Narrow end of Sensor Strip should line up with middle of pupil
- Sensor Strip should be about 2 mm below the lower eyelid lash line
- Avoid hair and eyelashes when applying the Sensor Strip

   TIP: *The Sensor Strip should be visible on the RETeval screen during testing. If it's not, the Sensor Strip placement is likely too far below the eye.*

CORRECT:

CONNECTION TAB   2mm

INCORRECT:

TOO NASAL   TOO TEMPORAL   TOO INFERIOR
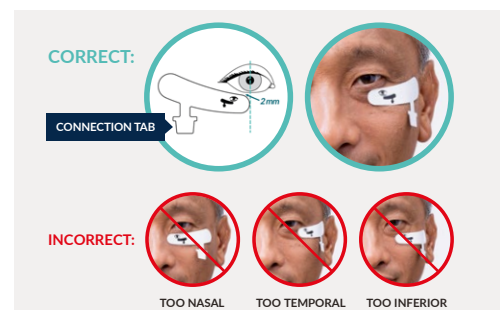
2 The screen will present options prior to connecting the Sensor Strip to the Sensor Strip lead wire. "Cancel" will cancel the entire test. "Done OD/OS" will skip all tests of the specified eye. "Skip" allows the user to skip current test step.

Prepare Right Eye 0/50
Place Sensor Strip and connect clip.
Cancel | Done OD | Skip
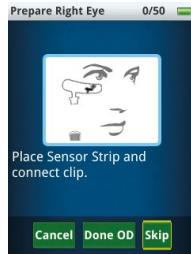
3 Connect the Sensor Strip to the Sensor Strip lead wire. The blue tab should face outwards. The device will verify that your electrode is connected securely, and that the electrode noise is sufficiently small enough to proceed. Select "Next".
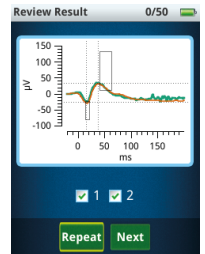

Prepare Right Eye 0/50
Sensor Strip connected. Select Next.
Next
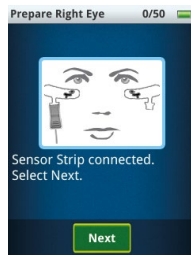
5. BEGIN TEST

1 Place the eye cup of the device so that it rests evenly over the patient's right eye first, if doing a bilateral test. Inform the patient to focus on the red light. Ensure the patient's pupil is located within the green circle shown on the screen. Select "Start test". Device will progress through each step.
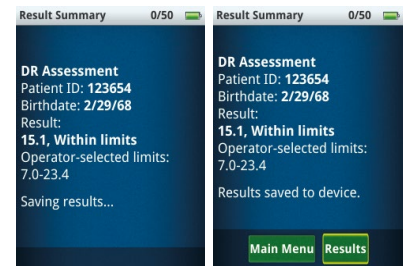
TIP: For Td protocols, the whole pupil must be visible to the operator. The test will not proceed if it is not visible. Make sure to wait for the blue circle with red crosshatch to appear over the pupil.
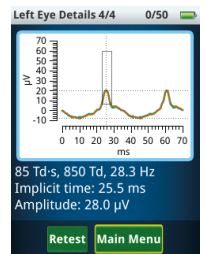

Align right pupil inside circle | Keep pupil inside circle
Skip | Start | Completed 1 of 4...
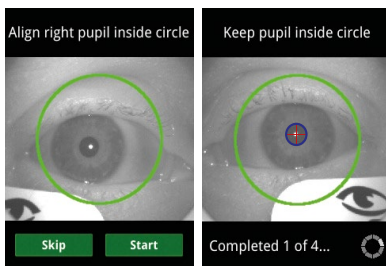
2 Upon completion of a step, certain protocols will allow you to review the waveform. If you are satisfied, select "Next", or select "Repeat" to repeat the step again.

Review Result 0/50
Repeat | Next

3 After all steps are completed, the device will automatically save the results.

Result Summary 0/50
DR Assessment
Patient ID: **123654**
Birthdate: **2/29/68**
Result:
15.1, Within limits
Operator-selected limits: 7.0-23.4
Saving results...

Result Summary 0/50
DR Assessment
Patient ID: **123654**
Birthdate: **2/29/68**
Result:
15.1, Within limits
Operator-selected limits: 7.0-23.4
Results saved to device.
Main Menu | Results

4 You will have the option to "Retest" the patient once you've viewed their results.

Left Eye Details 4/4 0/50
85 Td·s, 850 Td, 28.3 Hz
Implicit time: 25.5 ms
Amplitude: 28.0 µV
Retest | Main Menu

5 Once testing is completed, disconnect the Sensor Strip lead wire. Remove Sensor Strips from patient's face.

6. FILE REPORT

1 Connect the RET_eval_ device's docking station to your computer using the USB cable. Set the RET_eval_ device in the docking station. Be sure to properly dock your device to avoid damage: lkc.com/docking. On your computer, the RET_eval_ device will show as an external drive. The PDF reports are located in the "Reports" folder. Report filenames have three parts: patient ID, date of birth (YYMMDD), and testing date (YYMMDDHHMMSS).

7. CLEAN DEVICE

1 Clean the eyecup and Sensor Strip lead between patients. The RET_eval_ device exterior can be cleaned with either 70% isopropyl alcohol or alkyl dimethyl benzyl ammonium chloride.

Reordering Sensor Strips? Please visit LKC's online store at **store.lkc.com.**