

RETeval[®] **VEP QUICK REFERENCE GUIDE**

SET UP

- Press the power button near the bottom right of the screen.
- Connect the RETeval adapter cable for 2 DIN electrodes as shown to the right (cable towards the top of device).



The electrodes and supplies required for VEP testing are not included with the RETeval device package. Please order the RETeval Flash VEP Electrode & supply kit from your distributor or from LKC at store.LKC.com.

CONFIGURE DEVICE FOR TESTING

- Choose the testing protocol you'd like to use:
- Go to "Protocol" then "Change" then "Common ISCEV"
- Choose either ISCEV Flash VEP protocol and then "Save"

TIP: Candela protocols (ending in cd·s/m²) should be used with **DILATED** patients. Troland protocols (ending in Td·s) can be used with either NON-DILATED or DILATED patients. 10/30/15, 1:14 PM

Select "New Test" on the main menu.



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3 Use the joystick or patient data barcode application (https:// lkc.com/barcode to enter the patient ID and birthdate.



Confirm

4 Confirm that the protocol, patient ID, and birthdate are correct. Select "Next" to proceed.



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Select the appropriate electrode.

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Disc	
DTL	
ERG-jet	
Gold cup	
Gold foil	
Henkes	
HK-loop	
RM Human	

PATIENT PREPARATION

- Prior to beginning the test, the patient's eyes should NOT ก be dark adapted.
- The test should take place in a dimly lit room. 2
- Clean the top of the forehead and one earlobe using 3 NuPrep skin preparation gel.
- 4 Identify the Oz position, part the patient's hair, and clean with a skin cleanser pad.
 - For an adult with a normal-sized head, the Oz is located about 2.5 cm above the inion on the midline.
 - For children, the Oz point is located on the midline, 10% of the distance above the inion towards the nasion.



CONNECT ELECTRODES

ก Connect the electrodes as follows:

a Recording electrode (positive)

Place the recording electrode to the identified Oz position (positive).

- In case of a gold cup electrode, apply electrode conductive adhesive paste inside the gold cup.
- Separate the hair away from the recording site and press the electrode in place. The electrode should contact (mostly) scalp and not sit on top of hair.

D Reference electrode (negative)

Place reference electrode on the forehead, just below the hairline (usually an ECG electrode with a reference electrode lead attached).

Ground electrode (ear clip)

Apply electrode gel to the ear clip and place it on the earlobe.



The screen will present options prior to connecting the electrodes to the RETeval adapter cable for DIN electrodes. "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.



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Connect the electrodes to the RET*eval* adapter cable for DIN electrodes, which is connected to the device. The device waits for the electrodes to be connected and also warns you i



Device waiting for electrode connections Warning screen for too much noise

the connection is noisy. Select "Next" after any noise issues are resolved.

5. BEGIN TEST

- 1 Ask patient to cover the eye that is not being tested with their hand. Children may prefer to keep the contralateral eye uncovered.
- 2 Make sure the patient is relaxed and does not tense any muscles. Ask them not to talk.
- 3 Test right eye.

Place the eye cup of the device so that it rests evenly over the patient's right eye. Ask the patient to look at the red light in the center



of the ganzfeld. Ensure the patient's pupil is located within the green circle shown in the screen. Select "Start test". Device will progress through the protocol.

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.

Upon completion, the waveform will be displayed. Repeat the step at least once to demonstrate reproducibility. Uncheck any undesired replicates to remove them from the report while keeping at least two. Select "Next" to proceed to the left eye.



A Repeat steps 1-3 for the left eye.

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



6 Once testing is completed, disconnect the RET*eval* DIN adapter cable from the electrodes. Remove electrodes and clean any leftover gel/paste from the patient and electrodes. Both the gel and paste are water soluble.

5. FILE REPORT

Connect the RET*eval* device's docking station to your computer using the USB cable. Set the RET*eval* device in the docking station. On your computer, the RET*eval* device will show as an external drive. The PDF reports are located in the "Reports" folder. The PDF report follows the format of "PatientID_DOB_TimeStamp."

7. CLEAN DEVICE

- Clean the eyecup and DIN adapter cable between patients. The RET*eval* device exterior can be cleaned with either 70% isopropyl alcohol or alkyl dimethyl benzyl ammonium chloride.
- 2 Please follow the instructions of the manufacturer of the VEP electrodes for cleaning and disinfection.

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

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Questions? Send us an email at support@lkc.com or call +1 301.840.1992

Refer to user manual before use.

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