ICS® Impulse — Torsional Quick Guide

Please review the Torsional Training Video prior to testing patients

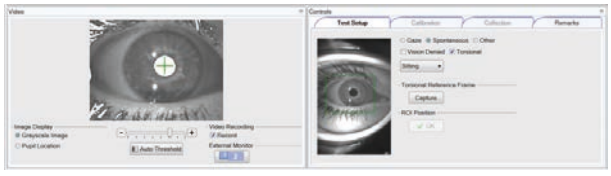
3D Nystagmus Analysis is available in the Oculomotor and Positional Module.

Image Quality

Image quality is essential to obtaining quality data. You want to make sure the patient's eye is wide open, there are minimal shadows on the eye image from eyelashes and lighting in the room. This is important because the algorithm has to be able to track the striations of the iris preferably without interference.

Minimizing shadows

- Open eyes wide and prop eye lids open by raising the eyelids and then placing the goggles. See Goggles Placement training video.
- Make sure lighting in the room is not creating shadows in the eye image.
- Position the green ROI (region of interest) box so that the pupil is centered in the middle of the box.

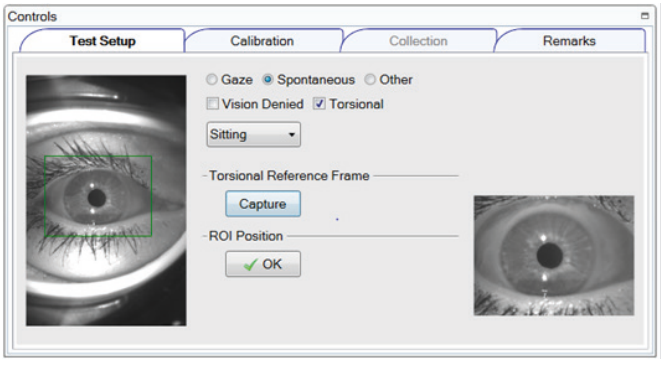


Test Setup

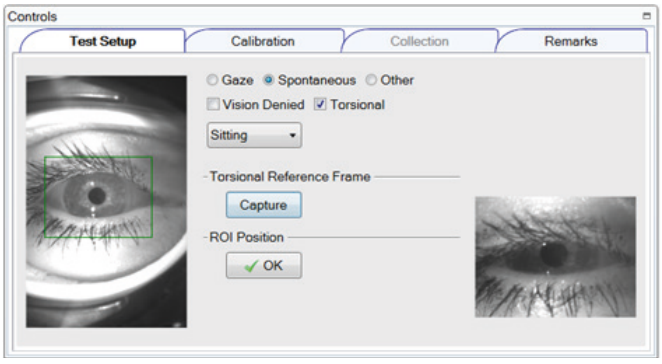
1. Make sure to check the Torsional box.
2. Click Capture to save the Torsional Reference frame, making sure that the eye is wide open and the image quality is good. The reference frame is compared with the collected data to determine if torsional eye movement is present. The reference frame can be used for all subsequent tests. If the quality is poor, re-instruct the patient and click Capture. This can be repeated multiple times until the proper reference frame is captured.

It is important that the Torsional Reference Frame and the eye image during data collection are of the best possible quality in order to obtain the best quality results.

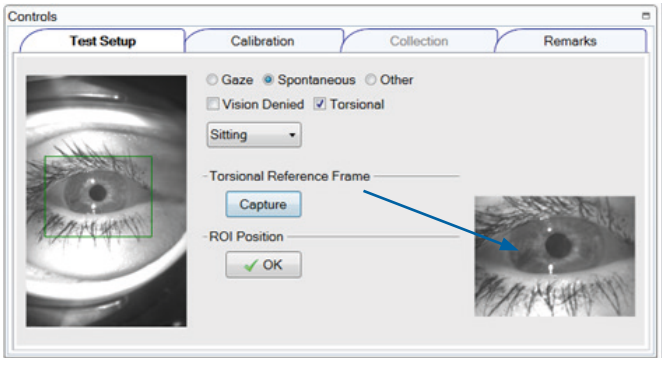
Good Quality



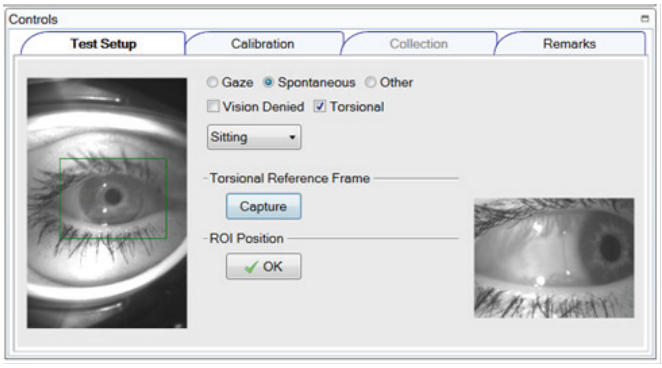
Poor Quality – Eye Closed



Poor Quality – Shadows from Eyelashes



Poor Quality – Patient not looking straight ahead



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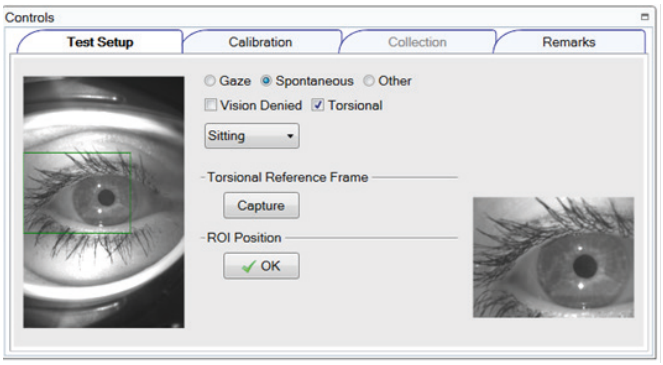
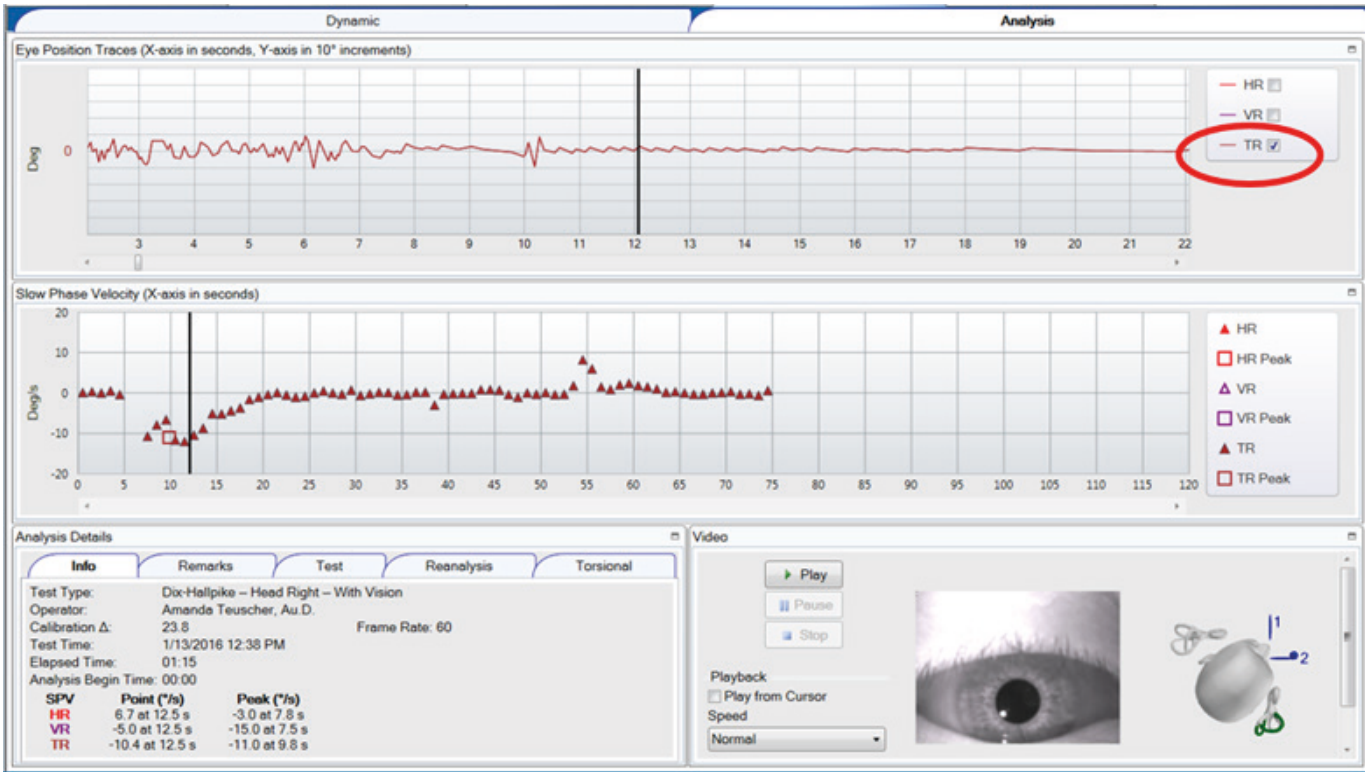
Poor Quality – Pupil not centered in ROI



After Data Collection

Click on TR to display the torsional eye position trace and SPVgraph.



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