Full-Field Pupillometry
ColorDome Upgrade Module

The Full-field Pupillometry module works with the ColorDome™ camera to monitor pupil size of both eyes and display video of the patient’s eyes in the Espion™ software during and after a flash.

Features

- Uses the original ColorDome camera
- Uses infrared LED illumination
- Simple set-up: no need for a headband
- Pupil response synchronized with trigger to the ColorDome flash
- Records from any ColorDome color flash stimulus
- Records area or diameter of pupils
- Both eyes stimulated and recorded simultaneously
- Image displayed in Espion software

Full-field Pupillometry module includes:

- LiveTrack AP
- BNC connector to phono connector
- Trigger cable (to connect to trigger out on Espion)
- Calibration card
- USB cable
- Espion Pupillometer protocols

Software showing the pupil response to a flash in absolute diameter and relative to a baseline
Application examples:

The pupillary light reflex (PLR) has been shown to be a valuable clinical test in assessing the health of the rod, cone and melanopsin pathways\textsuperscript{1,2}. One of the standard protocols offered with the Diagnosys pupillometer measures the PLR for each of these pathways.

Summary:

1. Rod pathway: 0.001 cd/m\textsuperscript{2} blue on 0 cd/m\textsuperscript{2} background, for 1 second (after 10 min dark adapt)
2. Red cone pathway: 20 cd/m\textsuperscript{2} red on 0.1 cd/m\textsuperscript{2} blue background, for 1 second
3. All cone pathways: 3 cd/s/m\textsuperscript{2} white 4 ms flash on 1.0 cd/m\textsuperscript{2} white background
4. Melanopsin pathway: 150 cd/m\textsuperscript{2} blue on 0 cd/m\textsuperscript{2} background, for 1 second

Pupillometry module ordering information

Model # D355

Available as an upgrade option to any ColorDome, on the following systems:

- Diagnosys $E^3$ desktop or Profile cart systems (with Espion software Ver 6.61+)