Dark Adaptometry Upgrade Module



The Dark Adaptometry module uses the ColorDome[™] or ColorFlash[™] stimulator to perform a full or partial field dark adaptation to accurately measure retinal parameters such as cone sensitivity, rod sensitivity and the rod-cone break point.

The dark adaptometry test may be run for single or dual eye measurements or a combination. Protocols include the *Marmor Test* as well as a wide array of options for research and clinical use. The test detects cone and rod threshold as well as rhodopsin regeneration rates in fields of view from 12° to full-field.

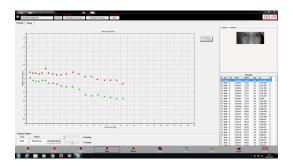
The patient's eyes are displayed during testing in the Espion^M software and the results of multiple tests can be displayed in a single analysis plot.

Features

- Simple to perform, fast measure of thresholds
- Range of test field sizes
- Full adaptation or endpoint testing
- Allows monocular or binocular testing with RGB or white colors
- Infrared camera is used to monitor the patient
- Automatically marked thresholds for rod, cone and other key metrics
- Single button box connects directly to ColorDome for user input
- White flash intensity from below the scotopic threshold up to 60 cd·s/m² (2,500 cd·s/m² when using a ColorDome with xenon flash)

Applications

- Rod and cone dystrophies affecting sensitivities
- Age-related macular degeneration (AMD)
- Retinitis pigmentosa
- Vitamin A deficiency
- CSNB



Test in Progress: software displays details of the sensitivity as the protocol runs



iMask™ shown mounted on ColorDome



ColorDome shown mounted on Profile System cart

The Marmor Test

Developed in partnership with Dr Michael Marmor at Stanford University, the *Marmor Test* has been developed and validated through testing at Stanford and Diagnosys over the past 4 years. The test replicates and improves upon that which has been used for decades and was the traditional gold standard for DA testing: the Goldmann-Weekers DA test from Haag-Streit. The *Marmor Test* utilizes white stimuli, a 50° field of view, optimized protocol settings for high test accuracy, attributes for patient comfort, and considerations for practical clinical use. Versions include protocols for cone/rod thresholds as well as endpoint rod thresholds.

Wide test capabilities:

- Variable bleach intensities and times
- Programmable delay and sounds
- Colors are user specified: white, red, green, blue
- Programmable flash parameters for varying test protocols
- iMask (for most accurate DA measurements):
 - Defined test spots: 12° (perifovea), 22° (macula), 32° (traditional), 50° (standard)
 - Defined bleach field: 32°, 50°, full-field
 - Check each eye dynamically during test
 - iMask eye shields block stray light

Dark Adaptometry module includes

Patient response button box, protocols

Marmor Test, along with other DA tests

Dark Adaptometry software license and installation instructions

Dark Adaptometry module ordering information

Model

Dark adaptometry module: D343 Optional: iMask (D369)

Available as an upgrade option to any ColorDome or ColorFlash¹ stimulator, on the following systems:

- Diagnosys E^3 desktop systems (with Espion software version 6.63 or newer)
- Diagnosys Profile cart-based systems
- 1. ColorFlash stimulus range is appropriate for DA tests on low vision patients only.

www.diagnosysllc.com

- US: Diagnosys LLC; 55 Technology Drive, Suite 100, Lowell, MA 01851; 978-458-1600; sales@diagnosysllc.com
 EU: Diagnosys Vision Ltd; Office 117, DOC Building, Balheary Road, Swords, Dublin, K67 E5A0, Ireland; +44 (0) 1223 520699; mail@diagnosysvision.com
 UK: Diagnosys UK Ltd; 5 Trust Court, Chivers Way, Vision Park Histon, Cambridge, CB24 9PW, UK; +44 (0) 1223 520699; mail@diagnosysuk.co.uk
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