ColorDome
Advanced Performance Ganzfeld Dome

diagnosys
leading the wave

"Any color, any intensity, any duration"

Features

Advanced flash capabilities
- ColorDome™ has a *trillion-to-1* luminance range
- Flash duration from nanoseconds to hours
- Any color background from RGB and amber LEDs

Easy to use, ultimate performance
- Self-calibrating
- Full electronic color control
- Flash or flicker stimuli in any color & duration
- Multiple desktop and cart mount options

Applications

- Disease diagnostics and monitoring
- Research and development
- Drug discovery and screening
- Clinical trials
- Neuro-ophthalmology

ColorDome shown mounted on optional Slider table stand

Specifications

LED flash

Any color flash: from RGB & amber LEDs; UV LED also available
Red (627 nm), Amber (590 nm), Green (530 nm), Blue (448 nm)
LED sets produce 9 order-of-magnitude luminance range
Flash duration from nanoseconds to hours
Proprietary CIE compensation yields ultra-stable luminance & color output
Maximum white flash >60 cd·s/m^2 (6x ISCEV standard maximum flash)
On/off flashes of any duration, waveforms including sine & exponential, arbitrary wavetable
Calibrated in photopic and scotopic units as well as Trolands
User defined color and luminance stimuli
Auto calibration

Xenon flash

Xenon flash calibrated from 0.001 cd·s/m^2 to 2,000 cd·s/m^2
Triple tube for wide range and linearity
Auto calibration monitors each flash & adjusts flash duration in real-time
Integral filter holder for adding customer filters if required
Max white flash 2,000 cd·s/m^2
Calibrated in photopic and scotopic units as well as Trolands
Capable of double flashes including "double bright flash" protocol

Overall flash

Flash luminance range from 10^{-8} to 2,000 cd·s/m^2
Anywhere within this range, luminance can be changed with no less than 1% resolution

Industry leading protocols

- All ISCEV full-field tests
- C-wave
- Dark-adapted 30.0 ERG
- Dark-adapted long wavelength
- Direct current ERG
- Double flash ERG
- Early receptor potential
- Electro-oculography (EOG)
- Flash VEP
- Light-adapted luminance-response series
- Photopic On-Off
- Photopic negative response
- Saturated a-wave series
- Scotopic threshold response
- S-cone ERG
- Dark adapted Red Flash

With upgrade modules:
- Pupillometry
- Dark Adaptometry
- Diagnosys*FST*®

Not all products are available in every country and their use may be limited by local regulations. Contact your local Diagnosys representative for more information.

ColorDome shown mounted on optional power lift cart
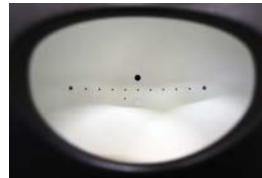
Background illumination

Any color background (from RGB and amber LEDs)
6 order-of-magnitude luminance range
Calibrated luminance output in cd/m^2
Calibrated in photopic and scotopic units
Colors can be created using CIE coordinates or color picker

EOG test

9 red EOG LEDs spanning 60° as well as the standard 30°
Adjustable intensity and cycle time
Can be cycled in square wave mode or sinusoidal mode
Configurable to have audible beep at the start of every cycle and sweep
Backgrounds up to 500 cd/m^2 white for non-dilated pupils

Other features

Infrared camera with IR LEDs built in; USB interface & video monitor output
Built in progressive audible buzzer to warn patients to get ready for next flash
User programmable arbitrary LED waveforms with 1ms resolution give full control of luminance and color
Optional dark adaptometry and FST modules
Auto calibration of LED and xenon output

Inside the dome: infrared camera, standard EOG 30° as well as 9 red intermediate EOG LEDs

Physical characteristics

Dimensions (HxWxD)	10.2 x 14.2 x 12.2 inches (260 x 360 x 310 mm)
Weight	10 lbs (4.5kg) without stand

ColorDome shown mounted on optional table-top Operating Room stand (note: must be bolted to table for safety)

ColorDome ordering information

ColorDome configuration

Model number: D125
Configuration: select 1 option per field below

D125	-	___ ___

XR	Xenon, regular cable
XS	Xenon, short cable
NR	No Xenon, regular cable
NS	No Xenon, short cable

Optional accessories

Model	Description
D343	Dark adaptometry module
D355	Pupillometry module
D196	FST module
D164	Desktop stand
D191	Normative database
D147	ColorDome recalibration service
D221	ColorDome with UV LEDs

Available on the following systems:

- Diagnosys *E³* desktop systems
- Diagnosys *Profile* cart-based systems
- Diagnosys *LabCradle* based systems

www.diagnosysllc.com

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