

Electro-Diagnostic Imaging, Inc.

Configuration Guide

Effective: July 25, 2008

VERIS™ systems are of modular design offering numerous hardware and software options. With some exceptions, new hardware can be added and the software can be upgraded at a later date.

A. VERIS™ PLATFORM (Choose from 2)

1. Apple Mac Pro Computer

B. VERIS™ SOFTWARE LICENSE (Choose from 4)

1. Basic
2. Clinic
3. Science
4. Pro

C. VERIS™ AMPLIFIERS (Choose from 2)

1. Multi-Channel

D. VERIS™ STIMULATORS (Choose up to 4)

1. 9-inch Monochrome w/ refractor Eye Camera
2. 21-inch Monochrome
3. FMS III Color (Fundus Monitoring Stimulator)
4. FMS III w/Through Pupil Illumination
5. EMS III (Eye Monitoring Stimulator)
6. Ganzfeld

E. VERIS™ ACCESSORIES

Prices subject to change without notice. • All pricing in US dollars.

EDI—A company with vision.

200F Twin Dolphin Dr, Redwood City, CA 94065-1402 USA

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PRICE (US\$)

A. VERIS™ Platform

1. Apple Mac Pro Computer
 - Includes:
 - Mac OS X Operating System
 - VERIS™ Control Switchbox & Cabling
 - VERIS™ Spot Calibrator System
 - VERIS™ Power Distribution System with Medical Grade Isolation Transformer
 - Appropriate Anthro Cart(s)
 - Free On-Site Installation and Training (Includes all Continental USA travel & living expenses)
 - **Does not include necessary console monitor** (See ‘System Accessories’ for EDI recommended monitors)
2. VERIS™ Platform Upgrade from Apple Power Mac G3 or G4 to G5 computer with OS X (Pricing may vary based on system, configuration and condition)
 - Includes: Same as Apple Power Mac G5 Computer above

B. VERIS™ Software License (Choose only one) (Includes 3-Hours of E-Care Support over the Internet and unlimited support for equipment under warranty)

1. VERIS™ Basic

Provides a limited set of standard protocols for mfERG, mfVEP as well as conventional steady-state, transient ERG, VEP and Ganzfeld recording
2. VERIS™ Clinic

Provides a variety of fixed, standard protocols for mfERG, mfVEP as well as conventional steady-state, transient ERG, VEP and Ganzfeld recording
3. VERIS™ Science.....
 - Includes: All VERIS™ Science features plus fully user programmable recording and analysis settings that can be saved for future use. Analysis can be modified and new analysis windows can be designed from scratch
4. VERIS™ Pro.....
 - Includes: All VERIS™ Science features plus synthesizing response sequences from the kernel series derived from a single experiment and the derivation of interactions between different stimulus patches presented to the same or to different eyes (mutual kernels)
5. Software Upgrade (i.e., Clinic-to-Science, Science-to-Pro)
6. Software Surcharge to 6.0

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- 7. Key file for VERIS™ processing on 2nd system
- 8. Annual Support and Software Update (Includes free E-Care Internet Support during 2nd year) (1st year included with purchase).....
- C. Grass-Telefactor ERG / VEP Amplifier
 - 1. Multi-Channel Amplifier with one 4-channel module and remote control.....
 - Benefit: May be expanded to a maximum of 16 channels in 4-channel increments
 - Additional 4-channel module (up to three).....
 - All multi-channel amplifier functions and settings are remotely controlled by the computer-based VERIS™ protocols.
- D. VERIS™ Stimulator Assemblies
 - 1. VERIS™ 21-inch Monochrome Stimulator Assembly.....
 - Includes: Custom shielding fixture that limits ambient-light reflection
 - a. 24-inch AnthroCart Pedestal
The VERIS™ 21-inch Stimulator Assembly weighs 95 pounds and needs to be mounted on a rugged pedestal for stability and safety. This pedestal has been tested and is known to satisfy safety, strength and stability requirements
 - b. VERIS™ Refractor with Integral Eye Camera
Provides easy, single-knob spherical correction from ~ -8 to +6 diopter. Incorporates an IR camera that provides a coaxial view of the pupil of the stimulated eye. The camera greatly facilitates alignment of the refractor to the patient's eye and permits real-time monitoring of fixation stability during recording. It is possible with this camera to detect breaks in fixation by as little as 1 degree. The use of such monitoring is highly recommended for all multifocal recording. When recoding from patients with poor central vision, EDI recommends using fundus monitoring with the VERIS™ FMS II Stimulator Assembly. Unlike Lens Kit refraction, this method does not change the size of the visual field tested by the stimulus array.
 - Benefits:
 - When recording VEPs and mfVEPs, subjects may use their own reading glasses for refraction
 - Binocular viewing possible for ERG recording
 - High luminance (up to 1000 cd/m²) permits recording with natural pupils
 - Very high resolution: 1600 x 1200

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2. VERIS™ 9-inch Monochrome Stimulator Assembly

Benefits: Custom shielding fixture that limits ambient-light reflection with integral refractor eye camera providing easy, single-knob spherical correction from ~ -8 to +6 diopter, all mounted on an easy to position articulated arm. Incorporates an IR camera that provides a coaxial view of the pupil of the stimulated eye. The camera greatly facilitates alignment of the refractor to the patient's eye and permits real-time monitoring of fixation stability during recording. It is possible with this camera to detect breaks in fixation by as little as 1 degree. The use of such monitoring is highly recommended for all multifocal recording. When recording from patients with poor central vision, EDI recommends using fundus monitoring with the VERIS™ FMS III Stimulator Assembly.

- Limitations:
 - Luminance limited to ~ 300 cd/m²
 - Standard mfERG protocols can only be run with pupil dilation

3. VERIS™ FMS III (Fundus Monitoring System)

Compact self contained unit for conventional and multifocal ERG and VEP recording.

- Incorporates:
 - High resolution, high luminance, ultra fast color microdisplay
 - Pixel resolution: 1280 X 1024
 - Response time < 50_s
 - IR Eye Camera for easy alignment to the subject's eye
 - IR Fundus Camera for monitoring fixation during recording
 - Single knob patient refraction (correction does not affect size of stimulus on the retina)

Includes:

- Articulating arm for easy positioning in front patient seated in reclining chair with headrest. (Chair is not included in price: See VERIS Accessories)
- VERIS™ Grid Calibrator for calibration of stimulus grid superimposed on the fundus image.

A. With trans-scleral fundus illumination includes special IR Illuminator (Cobra) with battery pack

B. With Through Pupil IR Illumination (TPI version) provides higher quality fundus image even on highly pigmented eyes

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4. VERIS™ EMSIII (Eye Monitoring Stimulator)
Same as FMS III but without fundus monitoring. Fixation stability can be monitored throughout the recording with the IR Eye Camera. Does not permit determination of the patients' point of fixation
5. VERIS™ FMS I upgrade to Through Pupil Illumination.....
6. VERIS™ FMS II upgrade to Through Pupil Illumination.....
7. VERIS™ Ganzfeld Stimulator.....
 - Eye camera for monitoring fixation during recording
 - Software
 - Articulating Arm
 - o Benefits:
 - All solid state (LED) driven RGB color for background and flash
 - ISCEV protocols
 - Rod saturating flash intensities up to ~ 4 log scotopic Td
 - Runs with semi-automated and automated software protocols
 - Brightness:
 - Scotopic: Bright enough to saturate Rods
 - Photopic: 25 cd-seconds/m²
1. VERIS™ System Accessories: **Choose 1 of 2 monitors, or customer to provide their own.**
 - o Compatible LCD Monitor.....
 - o Features: 1280x1024 optimal resolution
 - or
 - o Apple Cinema 20-inch LCD Monitor.....
 - o Features: 20-inch viewable, 1680 x 1050 optimal resolution
2. Apple-compatible color ink jet printer/scanner/copier
3. AnthroCarts: **Choose 1 or more, or customer to provide their own.**
VERIS™ Systems should be mounted on a sturdy work surface for safe, steady operation. AnthroCarts have been tested and are known to satisfy safety, strength and stability requirements
 - o 48-inch wide Console modified for VERIS™ system and peripherals (Optimal)
 - o 36-inch wide Console modified for VERIS™ system and peripherals (For users with limited space).....
 - o 24-inch wide Pedestal, Recommended for VERIS™ 21-inch Stimulator Assembly

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- 4. ERG / VEP Starter Kit
 - Includes:
 - One 4 oz jar of Ten20 Conductive Paste
 - One 4 oz tube of NuPrep ECG & EEG Abrasive Skin Prepping Gel
 - Package of 30 single-use Allergan Refresh Celluvisc® Lubricant Eye Drops
 - Box of 10 Grass SAFELEAD 10 mm Gold Disc Electrode with hole and 48” connection wire.
 - **Does not include the following items required to conduct testing:**
 - ERG Electrodes
 - Dilator
 - Anesthetic
- 5. Supplemental Training:
 - Training at customer site:
 - Extended On-Site Training (Done in conjunction with new system/upgrade installation and training).....
 - On-Site Training (Continental USA, Minimum 2 days) plus:.....
 - On-Site Training (International, Minimum 2 days)
 - Training at EDI (Minimum class size required):.....
 - VERIS™ Clinic Hardcopy Manual (Softcopy included with VERIS™ software)
 - VERIS™ Science Hardcopy Manual (Softcopy included with VERIS™ software)
- 6. Grass SAFELEAD Gold Ear Clip Electrode with 48” connection wire (quantity two).....
- 7. Grass SAFELEAD 10 mm Gold Disc Electrode with hole and 48” connection wire (quantity 10).
- 8. Burian-Allen Electrodes (**Available in USA only.**)
(**Special order 4-6 month lead time**)
Adult, Pediatric, Infant and Animal sizes available
 - Standard.....
 - Infrared (Battery Pack not included).....
 - Battery Pack for IR Electrode or Cobra
- 9. COBRA Illuminator (Battery Pack not included)
- 10. Chin Head Rest.....
- 11. Reclining Non-Medical Office-Type Patient Chair.....

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Note 1: VERIS™ Ganzfeld software is included with Ganzfeld stimulator.

Note 2: Institutions with multiple VERIS™ systems located at the same physical address may qualify for a 25% software-license discount.

Direct pricing questions to:

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Purchase orders should be sent to:

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