xltek
Protektor32 *IOM*

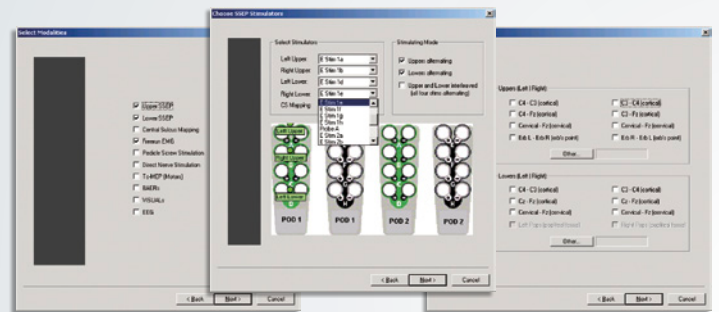*Excellence in Neurophysiology*

VERSATILITY – PERFORMANCE – RELIABILITY

Intraoperative monitoring has emerged as the gold standard for patients undergoing spinal or neurosurgery. Surgeons, the surgical team, and hospital administrators all recognize the need for high quality monitoring. The XLTEK Protektor32 IOM System is designed to provide extremely high quality data under the harshest conditions.

Versatility

- **64 input (32 channel) multimodality monitoring**

- **User-selectable electrode switching**

- **SEP, MEP, BAEP, VEP, EMG, EEG & much more**

- **16 high level, 2 low level programmable electrical stimulation outputs**

- **Click & tone-based auditory stimulation**

- **Bright LED goggle flash stimulation**

- **Flexible, programmable TCeMEP stimulation (1000V, 1500mA)**

- **Trigger in, trigger out connections for external devices**

- **Automatic ESU detection mutes audio & protects averages**

- **Laptop & cart-based configurations**

Simple Setup with Test Wizard

Protektor's built-in Test Wizard will guide you in creating a recording protocol for even the most complex monitoring needs. Tell the wizard what you want to monitor and your stimulation needs. It creates display panels, sets up stimulators, and arranges the presentation of critical measurements and calculations.

An IOM System with All the Right Connections

Color-coded inputs provide organization & instant identification of all recording electrodes. Detachable acquisition pods extend the amplifier inputs to multiple areas of the patient/table while maintaining excellent signal quality.

Protektor's 16 high-level electrical stimulator outputs are also easily delivered to the patient/table directly through detachable Stim Pods.

Performance

Multi-tasking monitoring software ensures uninterrupted monitoring throughout the entire surgery. Changes in system settings, data views, measurements and calculations will not interfere with vital data acquisition.
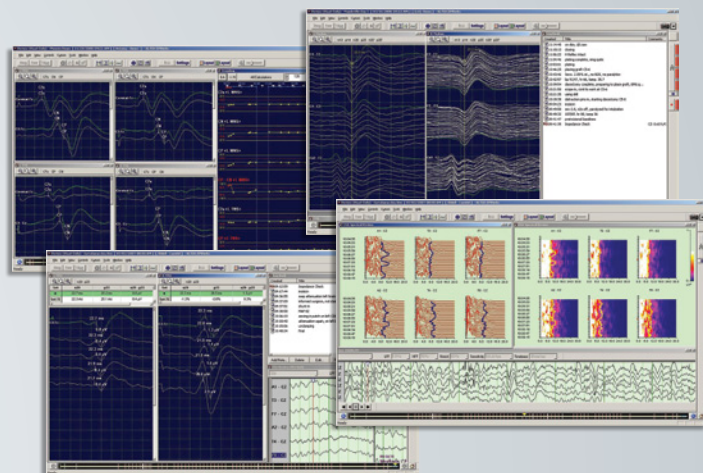
Unique system architecture is the result of carefully listening to our customers. Protektor was designed from the ground up to provide information necessary for immediate and critical surgical decisions.

Intuitive user interface design makes Protektor easy to use and reduces confusion in stressful situations.

Configurable display options permit on-the-fly designation of baseline waveforms, selection of stacked, super-imposed, and historical presentations. Video from surgical cameras can be viewed in its own resizable window. All measured values are displayed in simple, easy to read tables.

Data trending for EP and EEG permits rapid assessment of changes. Trend data may be displayed in graphical and numeric formats.

CSA, DSA, QDSA, and Spectral Edge presentations of EEG provide powerful views of cerebral function.

Configurable stimulus interleaving for multiple stimulators with repetitive, single, and train modes.

Annotation tools permit comprehensive case documentation. Easily note surgical stages, important events, communications with the surgical team, etc.

Nerve Integrity Monitoring Mode permits surgeons or monitoring staff to identify neural structures and confirm efferent nerve function. Selectable chimes automatically indicate detected activity on up to 8 individual EMG channels. Selectable stimulator contact chimes confirm proper contact of stimulation probes before stimulus delivery. Stimulus delivery chimes indicate stimulator activity.

Remote monitoring of multiple surgical cases from a single PC on any network or Internet connected location. Fully featured chat function permits discrete, rapid communications between monitoring and remote monitoring stations.

Reliability

Every XLTEK product is the result of an unyielding commitment to quality. Protektor's high performance and durability are a testament to the many talented engineers, neurophysiologists, and technologists that contributed to its design and continuous improvement.

A High-Performance System with High-Performance Support

Standing behind every XLTEK product is Natus Medical Incorporated, an internationally respected innovator of medical products and services (Nasdaq: BABY).

Our IOM systems are backed up by an in-house support team staffed with technical and clinicalexperts, 24/7 support for LTM, EEG and Sleep Diagnostics, remote support via Webex or VPN, the largest clinical and technical field support network in Neuro/Sleep and customized service contracts that include preventative maintenance visits and computer upgrades. No one supports you better than Natus.

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