



Maximus
ELECTROENCEPHALOGRAPH



24/32 CHANNEL EEG

USB POWERED PORTABLE EEG SYSTEM

- Compact and light weight
- USB powered with plug-and-play facility
- Suitable for use in ICU, OT, Bedside recording or at Patient's Residence
- Artifact free recording in any environment
- Reports can be e-mailed or transferred across a network



- 24 and 32 channel full band simultaneous acquisition of raw data
- Data transmission through high speed USB 2.0
- Simultaneous data acquisition and analysis of same patient
- Unlimited online and offline montage and filter reformatting
- User programmable acquisition and photic sequences protocols
- Event marking with review and printing options
- Automatic paging facility for quick review and analysis
- Compressed Spectral Array (CSA) and Density Spectral Array (DSA)
- LED based photic stimulator reduces acoustic electrical interference
- Brain mapping color coding as per international standards
- User configurable multiple display and report format
- Online true AC Impedance check which displays numeric values of all electrode impedances
- Compatible with Laptop and PC
- Online or offline data transfer through Internet / Intranet
- EEG synchronous digital video capabilities make the exams more precise (optional)

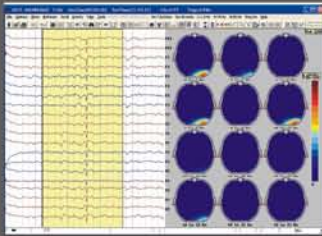
RMS Maximus 24



EEG Exams

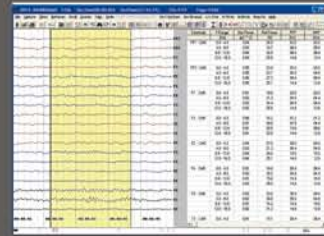
Anywhere, Any Time

RMS Maximus Series *Premium EEG for Neurological diagnostics*



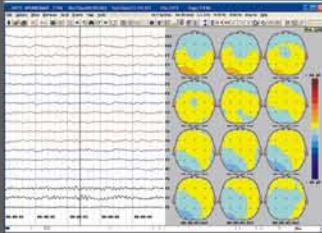
FREQUENCY MAP

Frequency progressive mapping of all the channels. Standard time series of 12 maps. Display frequency map of any time point by moving the cursor



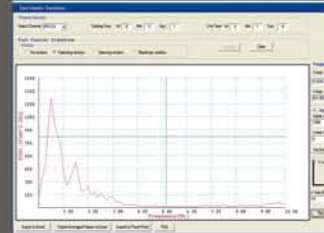
**FREQUENCY
TABULAR ANALYSIS**

Tabular analysis of different frequencies for all the channels



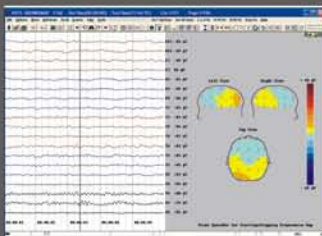
AMPLITUDE MAP

Amplitude progressive mapping of all the channels. Standard time series of 12 maps. Display voltage map of any time point by moving the cursor



FFT

Fast Fourier Transform gives information about the area of activity and over activity of the EEG



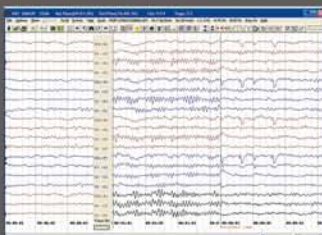
TRI MAP

Three standard view of voltage mapping from different perspective (left view, right view & top view)



**VIDEO RECORDING
(optional)**

MPEG-4 video provides crystal clear video recording precisely synchronised with patient data



SPLIT SCREEN

In analysis mode you can compare the data of same time or different times with individual selection of filters, sensitivity and montage etc.

REPORT GENERATION / EXPORT DATA



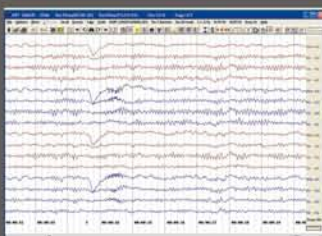
PDF



MS WORD



MS EXCEL



FREEZE

Screen Freeze facility to study any event carefully during acquisition. Data keeps on going to hard disk

WORK FLOW SOLUTIONS



E-MAIL



AUTO-RUN
CD / DVD



NETWORK
STORAGE

MAXIMUS - Technical Specifications

MAXIMUS 32

EEG input channels	24
EKG input channel	1 (bipolar)
Configurable input channels	4 (bipolar)
DC/External transducer inputs	3
Total Inputs	32

MAXIMUS 24

EEG input channels	21
EKG input channel	1 (bipolar)
Configurable input channels	1 (bipolar)
DC/External transducer inputs	1
Total Inputs	24

Low Filters	0.1, 0.3, 0.5, 1, 3, 5 Hz and user selectable (0-7 Hz), single Pole
High Filters	15, 35, 70 and user selectable (10-99), single Pole
Notch	Off, 50/60 Hz
Muscle rejection	On/ Off, 30 Hz double Pole
Sensitivity	1-1000 μ V / mm and one user selectable value
A/D Conversion	16 bit in hardware
Sampling Rate	1024 Hz
Storage Rate	256 Hz
Resolution	0.153 μ V
Dynamic Range	10mVP-P
CMRR	> 100 dB (0.1-100 Hz)
Noise Level	< 0.3 μ V RMS
Input impedance	> 10 Mohm (0.1-100Hz)

General

Connectivity to host PC	High speed USB
Export formats	PDF, MS Word, MS Excel
Safety	1.5 KV isolation
Dimension	210 X 150 X 56.5 mm
Weight	500 gm approx

POWER SUPPLY

Power Supply Operation	USB powered
Power On indication	LED

MINIMUM PC/LAPTOP CONFIGURATION

OS: Windows XP Pro/Windows7 Professional 32bit, Processor: Core2Duo or higher, RAM: 2GB or higher, 40 GB harddisk or higher, CD/DVD Optical Drive, Screen Resolution 1024x768 or higher

Sensitivity/ LF/ HF/ Notch/ Muscle Rejection/ Montage implemented in software only for display/ printouts.

Standard Kit



Maximus EEG



Disc Electrodes



Traveling Bag



EEG Paste



Photoc Flash

Options



Electrode Cap



CCD Camera



EEG Stand



Kondukt Paste



Laptop / Desktop

Remote Service Program

Online technical support is available from RMS Head office. Customer has to provide internet connection.