



**Maximus**  
ELECTROENCEPHALOGRAPH



## Portable EEG with 24 and 32 Channel

- Compact, light weight operational panel
- 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



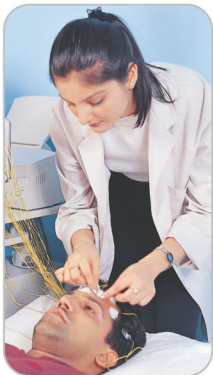
- 24 and 32 channel full band simultaneous acquisition of raw data
- Data transmission through high speed USB 2.0
- Simultaneous data acquisition and analysis of same patient
- LED based photic stimulator reduces acoustic electrical interference
- Online true AC Impedance check which displays numeric values of all electrode impedances
- Compatible with Laptop and PC
- EEG synchronous digital video capabilities make the exams more precise (optional)



Upgradable to  
**Video EEG**

- MPEG-4 video capturing
- RS 485 based PC controlled PTZ unit

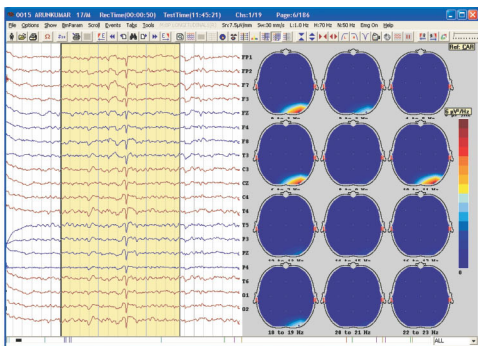
## RMS Maximus 24



## EEG Exams

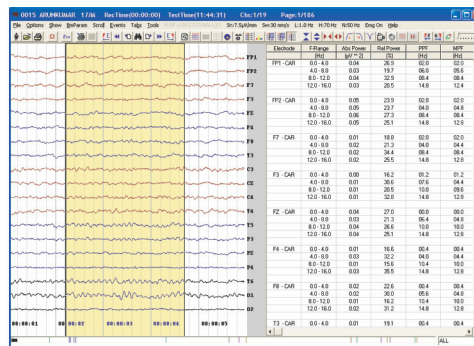
Anywhere, Anytime

- 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)
- 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
- Online or offline data transfer through Internet / Intranet
- EEG synchronous digital video capabilities make the exams more precise (optional)



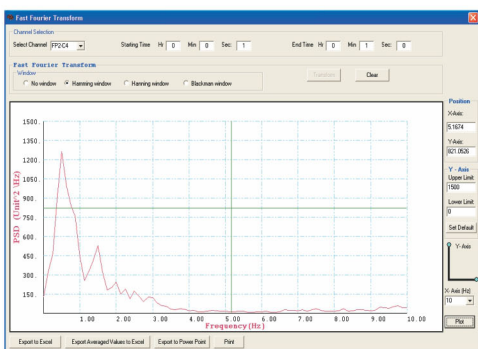
**Frequency Map**

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



**FFT**

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



**Video Recording (optional)**

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



PDF



MS WORD



MS EXCEL



E-MAIL



AUTO-RUN  
CD/DVD



NETWORK  
STORAGE



EDF



MATLAB

# Maximus - Technical Specifications

## Maximus 32

EEG input channels	24
EKG input channel	2 (bipolar)
Configurable input channels	3 (bipolar)
DC/External transducer inputs	3
<b>Total Inputs</b>	<b>32</b>

## Maximus 24

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

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 $\mu$ 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 $\mu$ V
Dynamic Range	10mV P-P
CMRR	> 100 dB (0.1-100 Hz)
Noise Level	< 0.3 $\mu$ V RMS
Input impedance	> 10 Mohm (0.1-100Hz)

## General

Connectivity to host PC	High speed USB
Export formats	PDF, MS Word, MS Excel & EDF
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



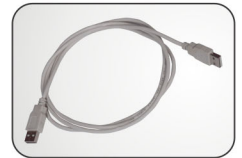
Disc Electrodes



Traveling Bag



EEG Paste



USB Cable

## Options



Electrode Cap



CCD Camera



Stand with Photic Flash



Kondukt Paste



Laptop / Desktop

## Remote Service Program

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

Since R&D is a continuous process, to make changes in product features, specifications, aesthetics and/or to discontinue the same at any time without notice or obligation



Certified ISO 9001:2015, EN ISO 13485:2016 company

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