



# Super Spec EEG

ELECTROENCEPHALOGRAPH



## 32 CHANNEL EEG

- Upto 32 channels data Acquisition (24 EEG channels, 5 Bipolar & 3 Polygraphic)
- Simultaneous acquisition and analysis
- Event marking with review and printing options
- Automatic paging facility for quick review and analysis
- Montage pictorial can be displayed as well as printed
- User programmable acquisition and photic sequences protocols
- Online true AC Impedance check which displays numeric values of all electrodes
- LED based photic stimulator reduces acoustic electrical interference
- Unlimited online / offline montage and filter reformatting
- Advanced features in Brain mapping with multiple references
- Brain mapping color coding as per international standards
- Compressed Spectral Array (CSA) and Density Spectral Array (DSA)
- EEG Synchronous digital video (optional)

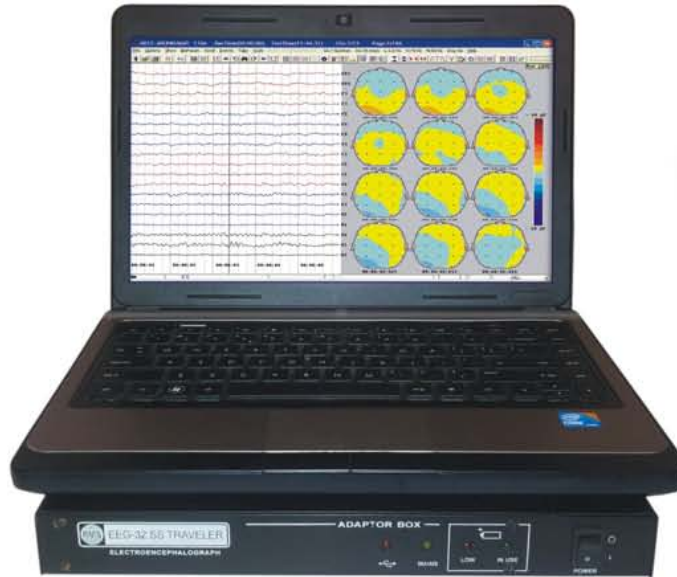


# Super Spec EEG Traveller

## Additional Features

- Battery and Mains powered portable EEG
- Data transmission through high speed USB 2.0
- Artifact free recording in any environment
- Suitable for use in ICU, OT, Bedside recording or at Patient's Residence

Portability Solution



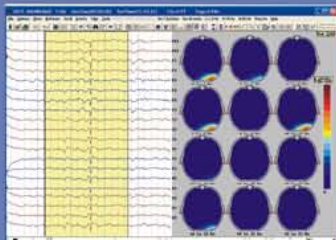
Head Box

## Upgradable to Video EEG



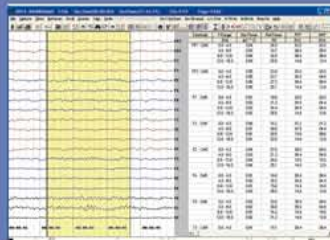
MPEG-4 video provides crystal clear video recording precisely synchronised with patient data

# RMS Super Spec EEG series



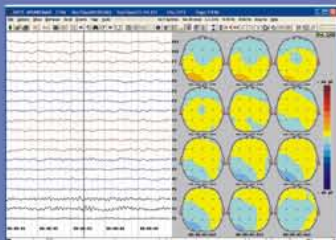
**FREQUENCY MAP**

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



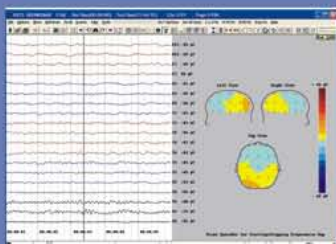
**AMPLITUDE MAP**

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



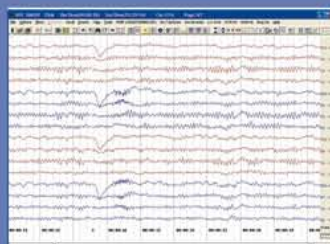
**FFT**

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



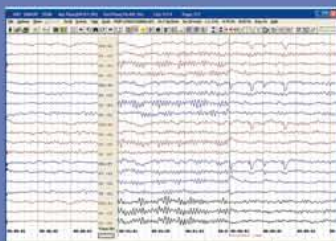
**TRI MAP**

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



**FREEZE**

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



**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.

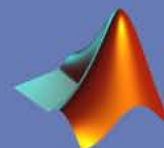
## REPORT GENERATION / EXPORT DATA OPTIONS



**EDF**



**PDF**



**MATLAB**

## WORK FLOW SOLUTIONS



**E-MAIL**



**AUTO-RUN CD / DVD**



**NETWORK STORAGE**

*Online or Offline data transfer through Internet / Intranet*

# TECHNICAL SPECIFICATIONS

## EEG

EEG input channels	24
EKG input channel	1 (bipolar)
Configurable input channels	4 (bipolar)
DC/External transducer inputs	3
<b>Total Inputs</b>	<b>32</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	14 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)

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

## Super Spec EEG 32

### GENERAL

Connectivity to host PC	RS-232/ High Speed USB*
Export formats	PDF, MS Word, MS Excel & EDF
Safety	1.5 KV isolation

### POWER SUPPLY

Line Power supply	~ 220 - 240V, 50Hz $\pm$ 10%
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### EEG CART

Dimension	745 (H) x 765 (W) x 465 (D) in mm
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Two tier, heavy duty cart made of pre-laminated 18 mm thick board with-

- Castors having locking arrangement
- One pull out shelf for computer keyboard
- Shelves for printer, PC tower and accessories

\*optional

## Super Spec EEG 32 Traveller

### GENERAL

Connectivity to host PC	High speed USB / RS-232
Export formats	PDF, MS Word, MS Excel & EDF
Safety	1.5 KV isolation
Dimension	38(H) x 310(W) x 252(D) in mm
Weight	2.5 kg approx.

### POWER SUPPLY

Line Power supply	~ 220 - 240V, 50Hz $\pm$ 10%
Power Supply Operation	AC/DC with on / Off line Battery charging
Battery	= 12V / 2.3AH (Lead Acid)
Battery backup	5 hrs.
Charging Time	2.5 hrs.

## 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

## Standard Accessories

Disc Electrodes , EEG Paste, EEG Stand, Photic Flash

## Options

Electrode Cap, CCD Camera (IR), Pan-Tilt & Zoom Camera, 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, features & specifications are subject to change without notice.

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