



# CFM

CEREBRAL FUNCTION MONITOR  
ENCEPHALAN

Encephalan CFM is a modern device used to monitor brain activities, detect pathological changes in cerebral functions, and accurate assessment of hypoxic-ischemic encephalopathy in infants (The changes in electrical brain activity in newborns cannot be detected while short-term tracing, it requires continuous monitoring).

## ➤ Major Functions

- Continuous and accurate Assessment of CNS and Neurological status
- Keeping track of the change in dynamics of a patient's state at proper intervals
- Evaluation of paroxysmal activity and assessing its severity, frequency, and duration
- Monitoring changes in the brain activities, that can cause other disorders such as; brain traumatic injuries, asphyxia, or cerebral perfusion disorder.
- Assess the need for neuroprotective treatment for the hypoxic-ischemic disorder.

## ➤ Technical Characteristics

- Wireless Pulse oximeter module
- Defibrillation proof connector to protect transceiver-recorder
- Seven electrodes connect Lightweight recorders
- Data backup available for the recorder
- A wireless Poly-4 module for recording additional signals such as; airflow, temperature, respiratory efforts, etc.
- Personal computer for real-time work station
- Wireless phono and photostimulation unit used for different types of tests
- It allows Video-monitoring

## ➤ Ailments and other Disorders

Many disorders can be traced with the help of Cerebral Function Monitor Encephalan-CFM. For instance;

- Paroxysmal brain activity
- Perinatal asphyxia
- Unconscious post-comatose states
- Neurophysiological control in ischemic strokes
- Epileptiform activity and such cases in newborns
- Low cerebral perfusion



## ➤ Different Modes Of Monitoring

- Autonomous mode (Recorded data is saved in a memory card)
- Telemetric mode (It uses wireless Bluetooth technology)
- Autonomous-telemetric mode



## ➤ Different Variants

- Portable Version (the Equipment fits in a laptop bag)
- Mobile Version (It consist of a monitor, video device kit, a printer, a computer, and a storage device)

## ➤ Technical Specifications

### Minimun Requirement

Windows 10 | i3 Processor | 512 GB Memory | 4 GB RAM | PC (Monitor)

### Options

|                                 |                           |
|---------------------------------|---------------------------|
| Windows                         | 10/11                     |
| Processor                       | i3/i5/i7                  |
| Memory                          | 512 GB/1 TB (HDD/SSD)     |
| Monitor                         | Touch/Non-Touch (22"-24") |
| RAM                             | 4GB/8GB/16GB              |
| IP Camera<br>(Video Monitoring) | Optional                  |

## Cerebral Function Monitor Encephalan-CFM sales package includes or requires

|    | List of the Items   | Use of the Item  |
|----|---|--|
| 1  | <p><b>Transceiver and recorder along with the software to study ECG: (autonomous telemetric)</b></p> <ul style="list-style-type: none"> <li>• Patient transceiver-recorder ABP-5</li> <li>• Wireless PC Adaptor</li> <li>• Check lead</li> <li>• USB data transfer cable</li> <li>• Calibrator</li> <li>• Memory card</li> <li>• Software to study ECG signals recorded</li> <li>• A card file for patient's data management</li> </ul> | <p>This set is equipped to record the data of a patient, providing backup and studying its recorded EEG signals.</p> |
| 2  | <p><b>Additional accessories</b></p> <ul style="list-style-type: none"> <li>• Spare memory card</li> <li>• Charger BC-700</li> <li>• Main supply adapter</li> <li>• Ni-MH AA batteries (rechargeable)</li> <li>• SW-Key (USB)</li> <li>• Defibrillation proof connector</li> <li>• Table support</li> <li>• A guide/Atlas of amplitude-integrated EEG in the infants</li> </ul>   | <p>Additional devices needed for charging and emergency purposes</p>   |
| 3  | <p><b>EEG Electrodes and accessories for using software:</b></p> <ul style="list-style-type: none"> <li>• Set of single EEG electrodes ES-EEG-11/TP</li> <li>• Set of caps (to be fixed on the baby's head)</li> <li>• Disposable Electrodes</li> <li>• Extensions lead set (Electrodes)</li> <li>• Set of cup electrodes</li> <li>• Elastics for fixing cover caps</li> </ul>  | <p>Used for cerebral monitoring (low-channel)</p> <p>And other additional accessories required</p>                   |
| 4  | <p><b>Pulse oximeter: (Optional)</b></p> <ul style="list-style-type: none"> <li>• Pulse oximeter module</li> <li>• Main supply adapter</li> <li>• SpO2 sensor Multisite Y-3227</li> <li>• SpO2 sensor SoftTip small RS-3227</li> <li>• Table supporter</li> </ul>   | <p>Used for checking oxygen levels of the patient's body and its fixtures</p>  |
| 5  | <p><b>Video Equipment kit: (Optional)</b></p> <ul style="list-style-type: none"> <li>• HV-E Video Unit</li> <li>• Injector USB</li> <li>• Ethernet patch cable</li> <li>• IR lamp for video recording during the night</li> <li>• Clip mount</li> <li>• Tripod</li> <li>• Event marker</li> </ul>   | <p>This set includes all equipment for recording video or video monitoring</p>                                       |
| 6  | <p><b>Software:</b></p> <ul style="list-style-type: none"> <li>• Encephala- VLFA software (Analyzing low-frequency activities)</li> <li>• Encephalan-NM software (Neuro-monitoring)</li> </ul>  | <p>Software to be installed before using the device, It helps to monitor assess the activities purposes</p>          |
| 7  | <p><b>Ten20 Conductive Paste or Electrode cream</b></p>   | <p>For pasting cup electrodes</p>  |
| 8  | <p><b>Electrode gel</b></p>   | <p>Used on EEG electrodes for fixing it</p>  |
| 9  | <p><b>Adhesive Plaster</b></p>  | <p>To fix electrode sensor</p>   |
| 10 | <p><b>Fixing bondage elastic</b></p>  | <p>To stick wires and sensors onto the arms and legs</p>   |
| 11 | <p><b>Disposable snap ECG electrode</b></p>   | <p>-</p>   |
| 12 | <p><b>Brush</b></p>   | <p>To apply cream</p>  |