

Envoy

The Standard For Bedside Patient Monitoring

Charter Kontron's Envoy is a sophisticated, high-end modular bedside patient monitoring system, providing a cost efficient solution for the varying needs of today's medical applications. This innovative, upgradeable system is easily adapted to suit any medical application and patient profile, enabling full connectivity with HIS, laboratories and PACS as well as additional monitors and central stations. It provides 45 days full disclosure of 12 lead ECG and all other vital signs. The system's quick keys functions, touch screen operation and PC-based technology make the Envoy a simple, intuitive and user-friendly device, improving staff efficiency and enhancing clinical care.

Benefits:

Ease of use: Intuitive operation and functionality, with up to 11 pre defined customised monitoring profiles. User-friendly interface design, large sized fonts with a special "big numbers" display an impressive full color presentation with an optional touch screen.

Quick Keys: Immediate access to functions and routine operations.

Versatility: Easily adaptable to meet any patient condition.

Bedside Data Management: Distributed processing power and storage, 45 days of true full disclosure (12 leads) within the monitor, numerical charts and trends for up to 90 days. Archive of up to last 10 patients per bed.

Reduced cost of service and short down-times. Long-term clinical monitoring data storage and continuously upgradeable.

Standard Barcode Input: Intuitive and automatic data insert, saving medical staff time and ensuring information consistency.

Events Data & Waveforms Storage: Single touch saving of events for retrospective display and analysis.

Comprehensive Connectivity: Seamless integration with medical IT systems, standard communication protocols, continuity of patient data, archiving of patient monitoring data and research tools for analysis of patient's physiological parameters.

Envoy Explorer Software Package: Enables scientific research of patient's data, standard media archiving and data sharing.

BP Channels: 2 BPs per module, Envoy provides flexible monitoring for up to 8 invasive pressures.



Clinical Features

Full Disclosure

Retrieval of all ECG leads in full resolution provides clinician view of all arrhythmias during the entire monitoring period.

Graphical Trend

Trend display of up to eight vital signs at up to one minute resolution. Provides a long-term view of changes in the patient's condition.

Numerical Chart

Tabular presentation of all vital signs at up to one minute resolution. Additional highlighted entries of alarms and events for easy review. The chart format is user-defined to suit the clinical application.

Arrhythmia Analysis

2 Arrhythmia packages are available:

Basic or Extended arrhythmia monitoring. The ECG is analyzed continuously, based on a dual lead QRS detection algorithm. QRS classification is included in the full disclosure review display annotating each beat as Normal, Abnormal, Ventricular or Paced.

ST All-Lead Analysis

Performs simultaneous and continuous ST analysis of all ECG leads with ST alarms.

ST Watch

Enables review of ST data as a long-term graphical representation. ST Watch presents changes in the ST trend over time, displays trend presentation of calculated ST parameters and allows morphology comparisons by snapshot views at any time in the full disclosure.

All ECG Lead Display

The "All ECG Leads" function presents a display of all available ECG traces, the display reverts to the main screen after a specified time-out period.

Drug Titration and Calculation

Calculates drug concentrate, infusion rates and injection amounts based on clinically specified parameters. All medication charts are linked to full disclosure, overview and trends.

HRV

Heart Rate Variability of normal QRS complexes is calculated in the time domain and as a histogram. Results are reported as a numerical chart and graphic trends.

Data Management

Calculations of Hemodynamic, Respiratory mechanics, Oxygenation and Renal parameters in a tabular format.

Available Modules

- ECG/Resp 3-5
- ECG/Resp 3-5-6-12
- 2BP & CO/2 Temp
- 2 BP
- 2 Temp
- Cardiac Output/ 2 Temp
- NIBP
- Spo2 Nellcor
- Spo2 Masimo
- Etco2 Oridion Microstream
- ECG Telemetry module
- EEG Module
- Spirometry Module
- BIS
- Serial interface 1 channel
- Serial interface 3 channels
- Serial Interface devices:
 - Ventilators
 - Anesthesia Ventilators
 - Transcutaneous Gas
 - Continuous Cardiac output and SvO2
 - Anesthetic gas bench
- Recorder
- Laser Printer