

# Contec TLC5000 Dynamic ECG System



## Brief Introduction

TLC5000 Dynamic ECG System adapts international standard 12-lead system, can record continuously ECG waves for 24h, and analyses waves with PC software. It is applicable in hospital and community medical establishment.

## Recorder Features

- With advanced design and technology, the recorder can work stably, dependably and durably.
- Be provided with the capability of anti-jamming and aseismatic.
- Small volume with OLED screen. The resolution is 160\*128.
- Be provided with functions of waveform preview, record review and event marking.
- Accurate record of the start time of the data sampled owing to the real time clock of itself.
- Avoid damage owing to the repeating inserting and pulling out by using the inbuilt TF card to storage the data.
- The maximum capability can be 2GB, so the original data can be saved perfectly by no compression.
- The average review time of single case can be less than 40 seconds by using interface of USB 2.0.
- Record waveform details inextenso by the design of high precision and sampling frequency.
- Record the state of pacemaker exactly by higher sampling frequency.

- International standard of 12 leads. Record 24-hour DECG with the same standard of the ECG.

## **The features of software**

- Quick and accurate analysis system.
- The 12-leads synchro analysis , to find accurate, QRS search can be accurate and no distortion.
- There are more than 10 templates as atrial premature beat module, ventricular premature beat module, long interval module, atrial flutter module, atrial fibrillation module etc. and multiplicate User-defined templates could almost identify every kind of pathologic waveforms.
- Flexible analysis channel selection function, can choose any channel as the mainly analysis the channel.
- Flexible atrial fibrillation analysis ,so that physicians can use full, segmented automatic manual analysis of atrial fibrillation, make the analysis more quickly and accurately.
- Powerful pacemaker analysis, on the AAI, VVI, DDD etc. all pacemaker analysis.
- Many pacing modules have been added.
- Fast review analysis function, can be any period of time the review single lead or all leads electrocardiogram.
- Analysis of heard rate variability with short-range 5 minutes and long-range 1 hour and 24 hours analysis of heart rate variability.
- One-stop printing operation, report printing process is convenient and quick.
- Perfect function of case management.
- Advanced ST segment analysis and myocardial ischemia total load, can for the ST abnormal analysis according to the whole and event, make the doctor can comprehensive judgment myocardial ischemia.
- Unique "Sleep breath pause syndrome analysis" analysis can predict Sleep breath pause risk.
- "HRT" analysis can predict the risk of death in patients with myocardial infarction.
- "T Wave alternation" analysis is an important index to predict malignant arrhythmia and sudden cardiac death.
- With QT discrete degree analysis, ventricular late potential analysis, vector ecg analysis, time vector analysis and so on, many kinds of additional analysis function, make analysis report more reference value.

## Standard

- Number of channels: 12 channels;
- Sampling accuracy:12Bit
- Record time : 24 h;
- Power: 2 AA size batteries;
- Interface: USB2.0;
- Scale voltage:1mV $\pm$ 5%;
- Standard Sensitivity:10mm/mV $\pm$ 5%;
- Noise level: $\leq$ 30 $\mu$ V;
- CMRR: $\geq$ 60dB;
- Low-frequency characteristics : Time constant $\geq$ 3.2s;
- Scan speed:25mm/s $\pm$ 5%;
- Enduring polarization voltage: $\pm$ 300mV DC polarization voltage,sensitivity shift $\leq$  $\pm$ 10%;
- Least measure signal : 50  $\mu$ V p-p;
- Product safety type : Type B (Internally powered);

## Accessories

- 12-lead ECG lead wires (1 set)
- ECG electrode 1 bag(20 per bag)
- USB data line(1)
- Disk(1)
- Bag(1)
- User manual(1)
- Softdog(optional)

## Physical characteristic

Dimension:111(L) X 60(W) X 25(H)mm

Weight:About 105g(without battery)