

**Experience the Trace Quality** 



# **CARDIART GenX3**



# Three Channel ECG Recording with unique trace darkness control

ECG Trace Print on 80mm Wide Paper with selectable trace darkness feature



#### Colour TFT Screen

Wide 4.3 inch 65K Color TFT display to observe 12-lead, real-time ECG waveforms



#### **Intuitive, One-Touch Function Keypad**

Color-Coded Silicone function keys for soft One-Touch Operation with Alphanumeric keypad for entering Patient & Hospital information



#### **Ergonomic Design**

Enhanced portability with built-In power supply & integral handle



#### **Short Recharge Time**

Built-in Li-Polymer Ion battery for safe and energy-efficient operation - Recharge time <3½ hours



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#### **ECG Analysis & Interpretation**

Gender, Age & Race specific Advanced ECG Analysis & Interpretation - **The Glasgow ECG Interpretation Algorithm** 



#### **Complete Analysis Display**

Full disclosure view of ECG Analysis on TFT display



#### **Multiple Operating Modes**

Auto & Manual modes with selectable rhythm, In-built PDF Converter for PDF Transfer of ECG via USB & Page Save Features



#### **Paperless Workflow**

ECG Data Export feature to multiple formats enables paperless workflow



#### **Direct Print Feature\***

Direct print on color A4 USB printers in different print layouts



#### Capacity

Internal record storage for up to 250 ECGs

<sup>\*</sup> compatible with selected printers only

## **Optional Enhancements\***



#### **PC Connectivity with ECG Viewer Software**

Stored and Real-time ECG transfer to PC through USB enabled by RT-Viewer software

\* Upgradable at additional cost

## The Glasgow ECG Interpretation Algorithm



lasgow ECG Interpretation Algorithm is acknowledged as being one of the best ECG interpretation algorithms in the world. This algorithm is tried and tested across all major human ethnic groups the world over and hence has clinical application across all populations.

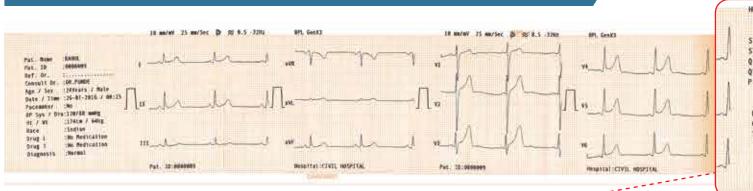
The ECG is particularly important in the emergency department, as it usually forms the basis for immediate therapeutic interventions and/or subsequent diagnostic tests.

The Glasgow ECG Interpretation Algorithm, developed at the University of Glasgow enables automated means of providing ECG analysis, interpretation and printing of reports and this makes it efficient in complementing the role of a clinician. This algorithm is very effective in interpreting STEMI (ST Segment Elevation Myocardial Infarction) appearances on the ECG.

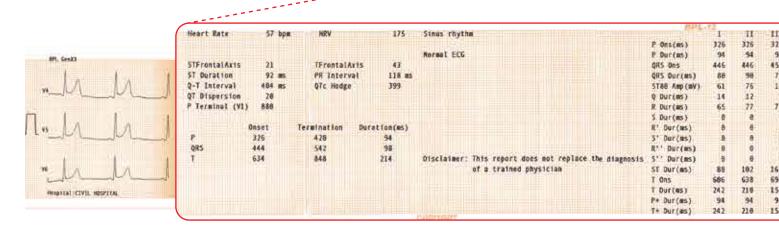


Scan the above image with BPL AR App to view the recorded webinar on Glasgow ECG Interpretation Algorithm

Short (Minimal) Version of Glasgow Interpretation with Analysis & Medians



### Detailed Version of Glasgow Interpretation with Analysis & Medians



## **Unique Features of Glasgow Algorithm**



QT measurements facilitating assesment of cardiac risk



This algorithm is very effective in interpreting STEMI (ST Segment Elevation Myocardial Infarction) based on age and gender dependent criteria



This algorithm uses measurement from large databases for children and adults giving a high specificity



Has the ability to cope with patients of all ages from birth to old age



"Critical values" included in diagnostic reporting template



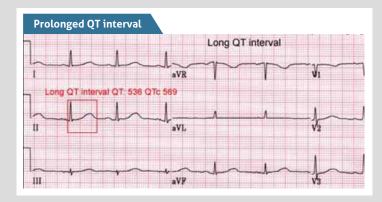
Can utilize V4R for neonates and children

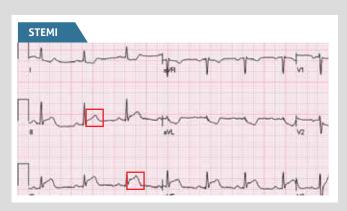


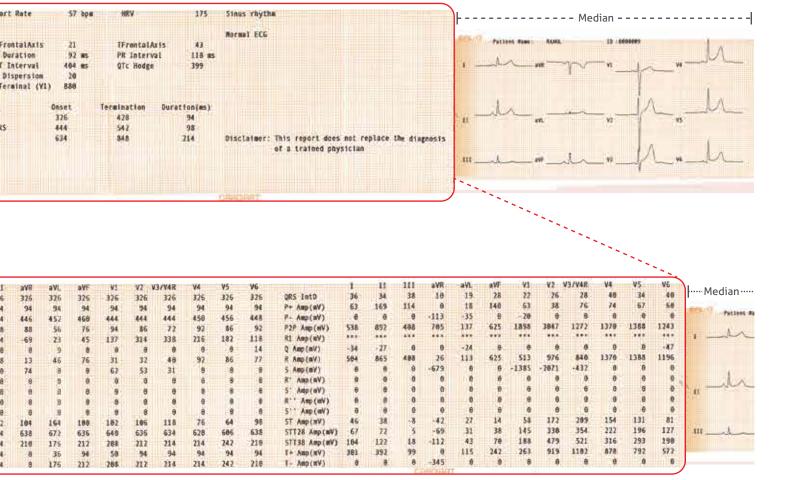
Offers short diagnostic reports for hospital market and detailed reports for primary care market



The Glasgow ECG Interpretation Algorithm meets all the **IEC 60601-2-51** requirements and **ISO 9001:2008** standards







# **Product Specifications**

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ECG ACQUISITION		THERMAL RECORDING		
ECG Acquisition	12 bits; 1000 samples/ sec/ channel	Recording System	Thermal printer, 8 dots/ mm, 72 mm	
ADC Resolution	2.55 μV/LSB		usable print width	
Input Dynamics	DC offset: ± 300mV; AC Differential: ± 5mV in the pass band	Paper Transport Speed	5 mm/sec or 12.5 mm/sec or 25mm/ sec or 50 mm/sec	
ECG Lead	Standard 12 leads or Cabrera; Acquired 8 leads & Reconstructed 4 leads (Lead III, Lead aVR, Lead aVL, Lead aVF)	Thermal Paper	In rolls: Height 80mm, Length 20m, gridded	
	Manual: 2.5 - 5 -10 - 20 mm/mV ± 5%	Print Channel	3 Channel + 1 Rhythm or 3 Channel;	
Recording Sensitivity	Auto: Dependent on the signal strength, Optimizes automatically to 2.5-5-10-20 mm/mV ± 5%	Print Formats	Manual: 3 Ch.  Auto: 3 Ch, 3 Ch + 1 Rhythm with selectable print durations of 2.5 secs./	
Input Impedance	> 10 MΩ @ 10 Hz		5 secs./ 10 secs.	
Frequency Response	0.05 Hz to 150 Hz (-3dB) without Mains /Muscle and ADF Filters	PC CONNECTIVITY		
Time Constant	> 3.2 seconds	Paperless Workflow	ECG Data Export feature to multiple formats enables this specification	
CMRR DF Protection	> 90dB @ 50Hz Internal	PC Connectivity	Real-time ECG transfer to PC over USB (Optional)	
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	ECG PROCESSING		BATTERY & POWER	
ECG Analysis & Interpretation	Gender, Age & Race specific Advanced ECG Analysis & Interpretation - Glasgow ECG Interpretation Algorithm	Battery	Rechargeable Lithium Polymer Ion 11.1Vdc, 3000mAh	
	in Auto mode	Mains Protection	Fuse: T2A 250 V	
ECG Analysis Sampling Rate	500 samples/ second (sps)	Battery Protection	In built PCM Module	
Filters	Mains interference/ Muscle filter: Linear phase digital 50 Hz Notch filter with selectable 32 Hz.	Power Supply	100-240 VAC; 50/60 Hz	
		Battery Charging Time	Approximately 3 hours 30 minutes from total discharge (Unit off)	
	<b>Anti-drift filter:</b> Selectable Digital 0.5Hz Anti Drift High pass linear phase filter	Power Consumption	Less than 60VA	
Pacemaker	Recognizes pulse in accordance with	ENVIRONMENT SPECIFICATIONS		
Recognition	applicable IEC standards	Operating Temperature	+10 to +40 °C	
Signal Memory Operating Modes	10 Seconds for each lead in Auto mode  Manual: acquisition and printing in real	Relative Humidity	Upto 95% RH Non-condensing	
	time	Storage/ Transport Temperature	-10 °C to 50 °C	
	Auto: simultaneous acquisition and printing	Relative Humidity	Upto 95% RH Non-condensing	
Heart Rate Meter	30 to 240 BPM ±10% or ±5 BPM, whichever is greater	PHYS	PHYSICAL SPECIFICATIONS	
DISPLAY & STORAGE		Dimension	Approx. 300mm x 260mm x 80 mm (length x width x height)	
Display	4.3 inch Color TFT LCD with 480 x 272 pixel resolution; 65k Color	Weight	Approx. 2 Kgs.	
Keyboard	Silicone Rubber keypad with 23 keys & 4 LED indicators	STAI	STANDARD ACCESSORIES	
Indicators	Mains Connection, Battery Charging, Battery Low & System Errors	Patient Cable Limb Electrodes	1 No. 4 Nos.	
Audible Beep	Heart Rate and Key Press	Chest Electrodes	6 Nos.	
Startup Time	< 4 seconds	Thermal Paper Roll	1 No.	
Record Storage	250 ECGs in internal memory	Cardijelly Bottle	1 No.	
		User Manual	1 No.	
	ETY CLASSIFICATION	Earth cable	1 No.	
Safety Classification	Class I with internal power supply			

CERTIFIED ISO 13485:2003, ISO 9001:2008 COMPANY

Type CF

Degree of Protection



Power Cord

1 No.



\*Technical specification subject to change

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