

Allengers

Passion for excellence



GEMINI SERIES

STRESS TEST SYSTEM



TREAD MILL TEST (TMT)

Allengers' Gemini Series of stress test systems are designed using state-of-the-art technology and more than 35 years experience in design and manufacturing of medical equipments. Sturdy, in house designed treadmill and stable base line during stress test are highlights of Allengers' TMT along with following features :

- User friendly operation and patient safety are in-corporated in design.
- USB interface enables the equipment to be used with any desktop / laptop computer.
- Light weight, small body level acquisition removes the artifacts due to patient motion using small lead lengths (optional feature).
- "Emergency Stop" is provided to stop treadmill motion in case of emergency.

Diagnostic Analysis

1. Interpretation statements during Resting ECG help finding the critical values for advanced analysis of risk prediction and ischemia.
2. ST/HR Analysis helps in detecting CAD and hence giving accurate treatment.
3. Risk predicting tools like Duke Treadmill Score, VO2Max, RPP Heart Rate Recovery, assist you in predicting patients at risk of sudden cardiac death.

File Export

PDF, HL7/HIMS

Reporting

Separate TMT Viewer SW for Cardiologists to view and make report from the comfort of his office for the Stress Test done at some remote location.

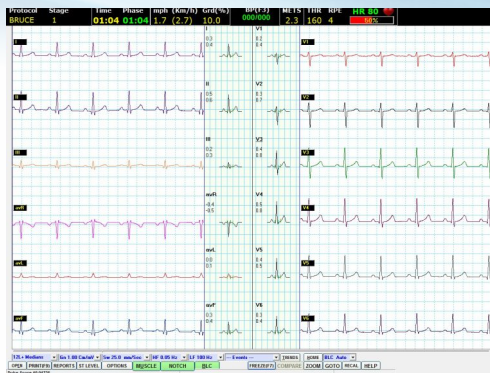
DISPLAY FORMATS WITH PRINTOUTS



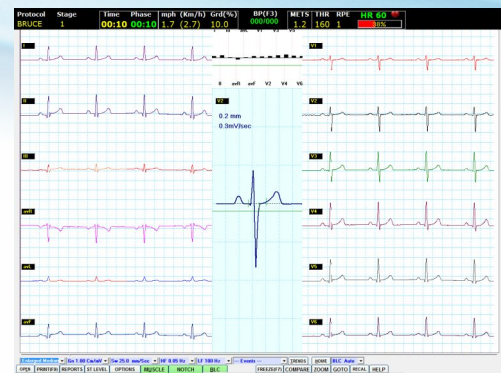
3 x 4 + 1 Rhythm Lead, 3 seconds display of all 12 leads and 1 Rhythm lead is displayed here.



12 Leads + Comparison, it shows 12 Leads of 2 sec. each and 12 Medians + 1 Enlarged Median on single screen for lead to lead comparison.



12Leads + 12 Medians, Ideal display for viewing the Patient's ECG. It shows 12 Leads and corresponding Medians for each lead.

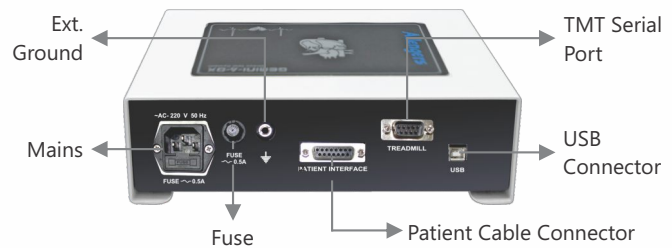


12Leads + 1 Enlarged Median. It shows 12 Leads 5 seconds + 1 selected Enlarged Median.

TREADMILL HARDWARE WITH SALIENT FEATURES



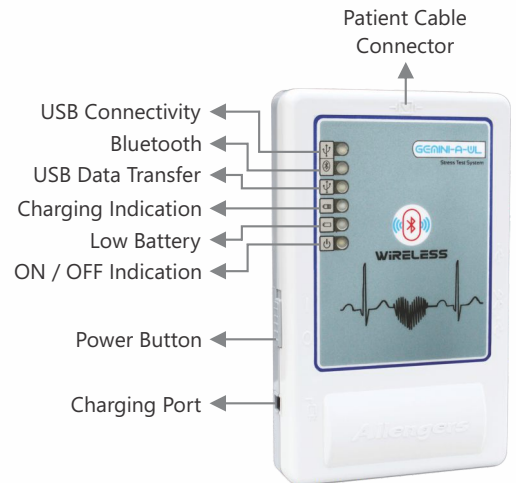
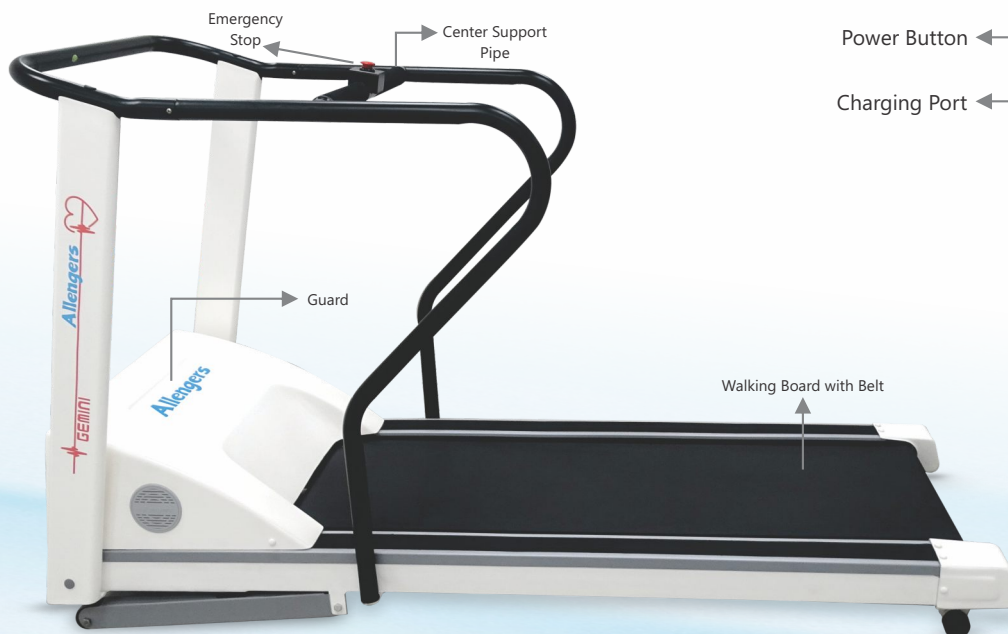
Wired Acquisition Box
(Front View)



Wired Acquisition Box
(Rear View)



Automatic NIBP Box



Wireless Acquisition Box

SALIENT FEATURES

- Duke score calculation
- Editable protocols
- Online printing
- Strong analysis tools with different display types
- PVC detection
- Activity log
- User definable summary reports with print preview
- Direct access with short cuts keys like - Phase, BP, Stop, Events, Hold etc.
- RPE
- HL7/HIMS compatibility
- **Auto NIBP recording (AM model)**
- PDF printing
- Email option through software
- Digitally signed software and drivers
- Zoom enlargement
- Go to - time forwarding
- Lifetime free software upgradation

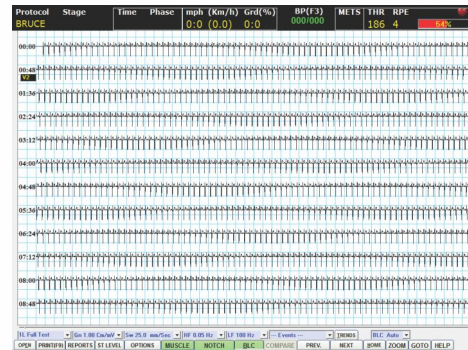
DISPLAY FORMATS WITH PRINTOUTS

FULL DISCLOSURE : Displays a complete test record for single test. Lead is selectable from all 12 leads. Zooming of particular lead and navigating to test from selectable position is possible at one click.

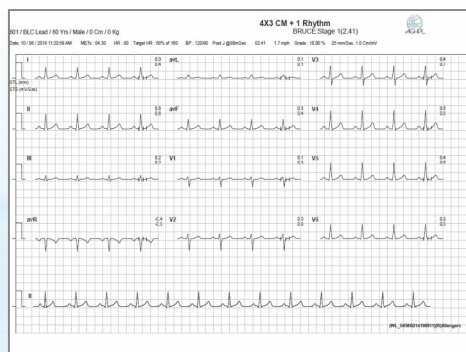
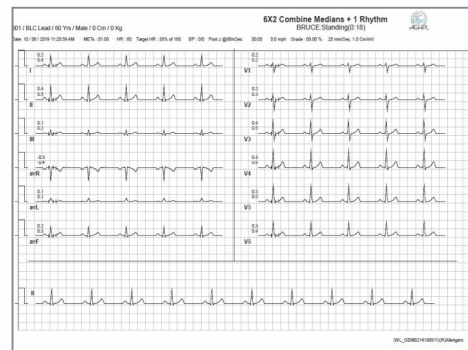


PRINT REPORTS

6X2 Combined Median Report. It shows the combined medians of all the leads in 5 seconds duration. Selected lead's combined medians are printed in Rhythm Strip in 10 seconds display.



EXERCISE MODE DISPLAY : It shows 4 leads for 04 seconds with HR/METs Trends, one enlarged median and all 12 medians with respective ST Levels and ST Slopes. Comparison of enlarged median and adjusting of cursors is also present.

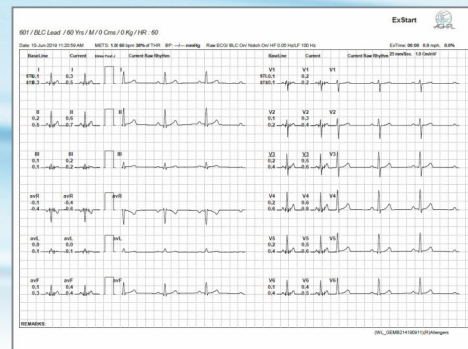


4x3 + 1 Combined Medians

All the 12 leads combined medians can be printed in 4 x 3 or 3 x 4 format and 1 leads is printed as Rhythm Lead.

BASELINE COMPARISON REPORT

It shows the current stage ECG and Medians. Medians are compared with the Median at Exercise Start to see changes in the ST Levels of the patient.

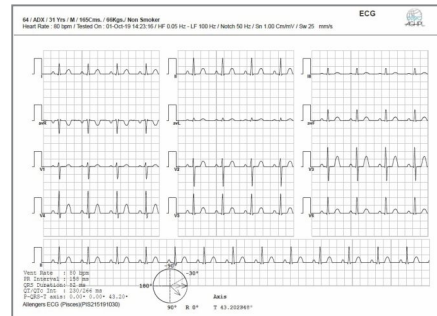


TMT WITH RESTING ECG



PC ECG : ECG Display shows ECG waves of all 12 leads along with one Rhythm lead. It also show Patients Axis (QRS, P and T Axis) to give quick view of patient's heart condition to the Doctor.

ECG Report : Complete ECG Report that shows all 12 Leads ECG, 1 selected Rhythm Leads ,Values of Main Parameters of ECG and Patient's Axes.



GENERAL

Frequency Response	0.05 to 150 Hz
Acquisition	Simultaneous 12 lead acq.
ADC	16 Bit
Notch Filter (Digital Filter)	50 / 60 Hz
Sampling Rate	4500 samples / sec
Rejection Ratio (CMRR)	> 100 db
DF Protection	GDTs (Gas Discharge Tubes)
Patient Leakage	< 10 micro Amp
Input Impedance	> 100 M Ohms

DISPLAY SETTING

Display Resolution	Auto adjustable as per display settings
ECG Display Format	3 x 4 + R, 6 x 2 + R, 4 Lead + 12 Median, 12 Lead + 12 Median, Combined Medians, 12 Lead x 3.2 sec., 12 Lead x 10 sec., 4 Lead x 10 sec., Full disclosure
Display Sensitivities	2.5, 5, 10, 20, 40, 80 mm/mV
Display Sweep Speed	5, 12.5, 25, 50, 100 mm / sec
Muscle Filter	35, none
Base Line Correction	Excellent base line stability
Test Protocols	Bruce, Modified Bruce, Balke, Ellested, Naughton and user definable protocols
Operating System	Any Microsoft Windows based

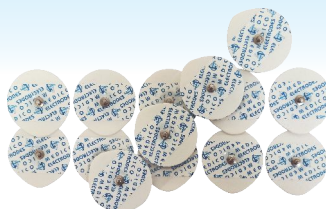
TREAD MILL

Power Input	200 - 240 V / 10 Amp / 50 Hz or 110 V / 10 Amp / 60 Hz
Speed	0.1 to 15.3 Kmph \pm 5% (can be increased upto 20 Kmph)
Grade	0 to 22% (can be increased upto 25%)
Walking Area	1400 mm x 535 mm
Dimensions	2015 mm x 815 mm
Max. Load	upto 200 Kg
Control	Optically / Digitally isolated USB

ACCESSORIES



Patient cable 10 lead



Disposable Electrodes



A4 Glossy Paper



Jelly bottle



Limb electrodes



Silicon bulb electrodes

BLAZE-prime (65W)

Advanced short and long pulse laser with compressor based turbo cooling system.

**MORE THAN 300 CASES SUCCESSFULLY PERFORMED
ON BLAZE-prime 65W IN INDIA**

APPLICATIONS

HoLEP, BPH treatment, Tumor (Bladder / UUT), BNI and Strictures. Lithotripsy, Retrograde Intrarenal Surgery (RIRS), Uteroscopy (URS), Percutaneous Nephrolithotomy (PCNL) - Mini perc -Micro perc.



HOLMIUM LASER

ALLENGERS OTHER PRODUCTS

- **CARDIOLOGY** : - Tread Mill Test (TMT) - Multipara Monitor (MPM) - Electrocardiogram (ECG 3, 6 & 12 CH)
- Holter - Cathlab Fixed/Mobile
- **NEUROLOGY** : - Electromyograph (EMG) - Polysomnograph (PSG) - Electroencephalograph (EEG)
- **UROLOGY** : - Holmium Laser (30W / 35W / 65W / 100W)
- **RADIOLOGY** ■ **ORTHO, GASTRO, NEURO SURGERY & INTERVENTIONAL** ■ **HEALTHCARE SOFTWARE**

MANUFACTURED & MARKETING DOMESTICALLY BY :

ALLENGERS GLOBAL HEALTHCARE (P) LTD.

CORPORATE OFFICE : S.C.O. 212-213-214, Sector 34-A, Chandigarh-U.T. 160 022 (India)

Ph : +91 172 6618001, 2621913 Fax : +91 172 2621912 E-mail : global.enquiries@allengers.net

MARKETING INTERNATIONALLY BY :

ALLENGERS MEDICAL SYSTEMS LTD.

Ph : +91 172 6618081, 6618082 Fax : +91 172 2621912 E-mail : exports@allengers.net

For more information, visit www.allengersglobal.com

Toll Free No. **1800-266-8800** (India)

For Enquiries :

Contact No. : 0172-6618001

E-mail : global.enquiries@allengers.net

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