

# Experience the Simplified Workflow

PREMIUM STRESS TEST SYSTEM

**DYNATRAC** *Ultra*



*Happier Living Everyday*



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## Premium Trade mill



Orbit-K BP Cuff



Suntech NiBP



Dyntrac Neo Software with HES algorithm

WIRELESS  
ENABLED



Dyntrac Neo BT acquisition Unit



# Ensuring enhanced clinical workflow with easy and accurate access of cardiac activity during stress tests

## STS Software



### Advanced Dynatrac Neo Software

Advanced Windows-based stress test software enables accurate recording and analysis of the test

### HES Algorithm with Advanced Dynatrac Neo Software

Advanced HES Algorithm with Dynatrac Neo Software enables Arrhythmia analysis and Motion artifact reduction in Stress ECG

## ECG Acquisition Unit



### Dynatrac Neo BT

A blue-tooth enabled wireless ECG transmitter device that provides for the added advantage of portability and reduces motion artifacts



### Rechargeable Battery with charge level Indicator

BT model of acquisition Unit has a battery status indicator to alert the user of low battery



### Tango Acquisition Unit

For Accurate Motion Tolerant BP Monitoring of STS



### Automatic Control of Treadmill

The treadmill can be controlled automatically during 12 lead ECG recording



### Flexible Treadmill Protocols

Treadmill protocols can either be preset or can be programmed by the user



### Selectable Digital Filters

Options are available for the user to choose digital filters for displayed ECG and print reports



### Online METS Display

With the METS data displayed real-time, the cardiologist can monitor the cardio respiratory fitness levels during the exercise period



### Post Review and Edit Facility

The device offers a facility for the cardiologist to review the results and edit them if needed



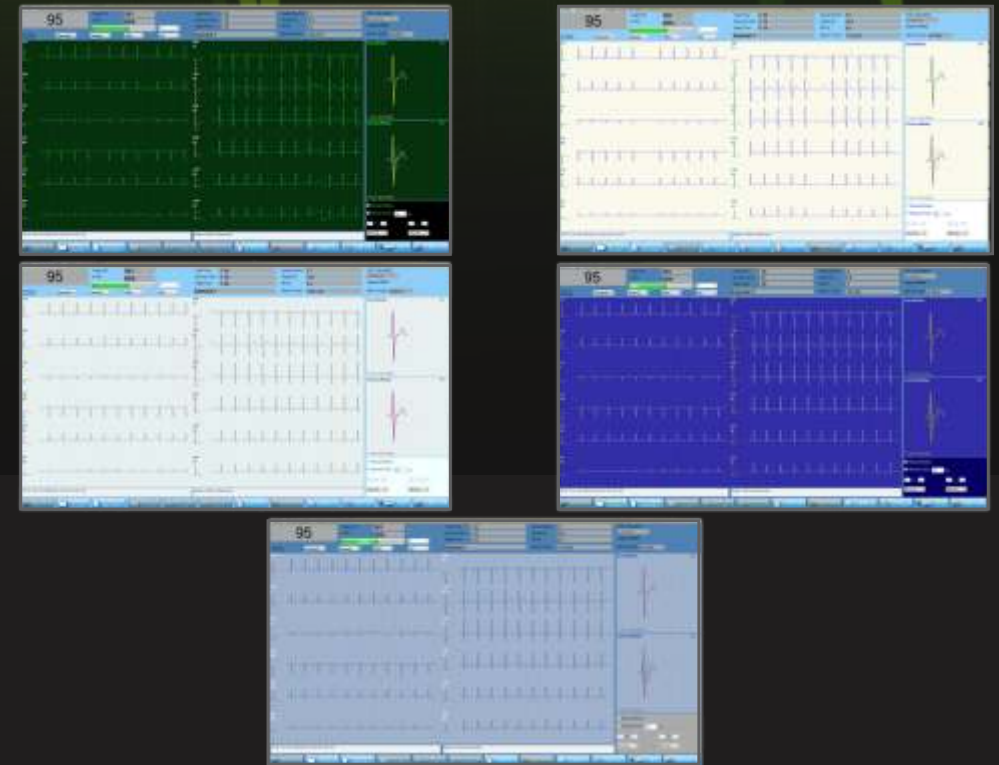
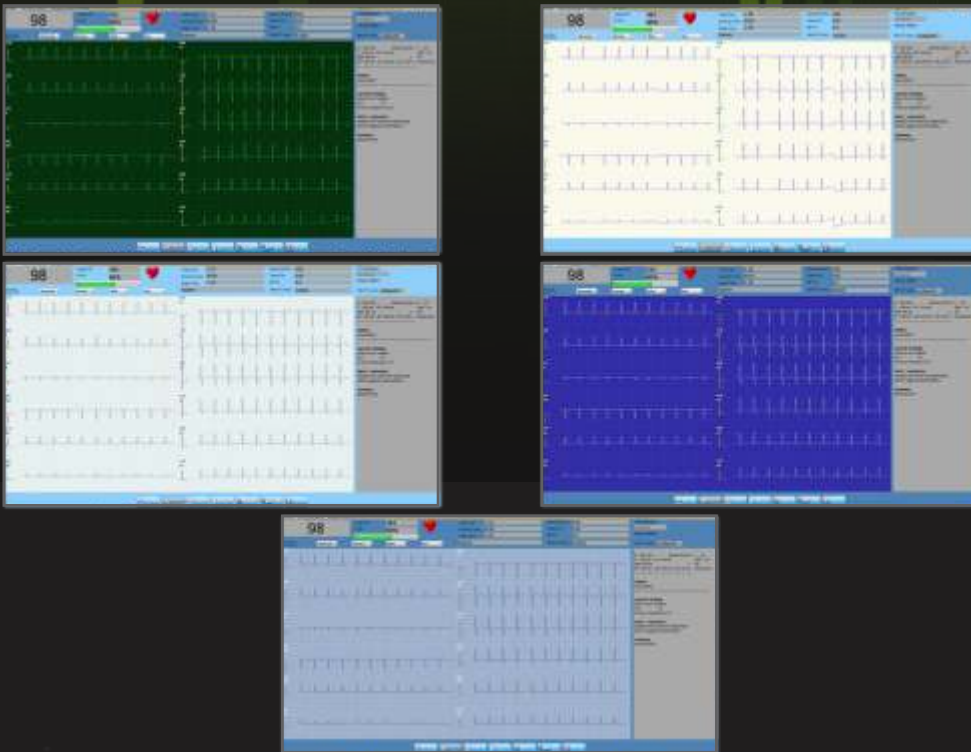
### Report Printouts

The system has options for printing the automatic stage printouts and selectable real-time printouts

# Theme Options

Test Screen

Resting ECG Screen





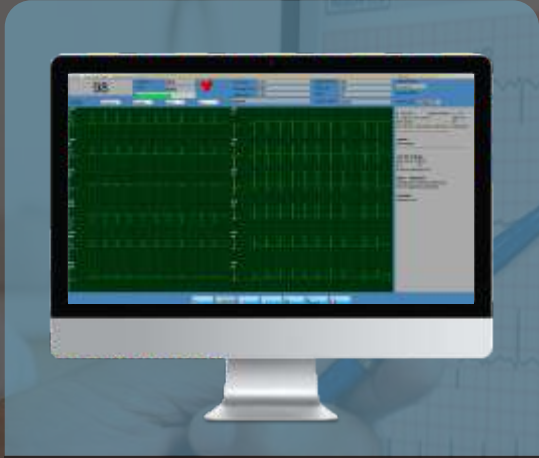
# Dynatrac Neo Software with HES Algorithm



Test Screen



Test Screen With Arrhythmia



Resting ECG



Resting ECG Analysis Result



Stress ECG



Events Screen



# SunTech® *Tango* M2

STRESS BP



## Features

With the Tango M2, you can count on us to deliver:

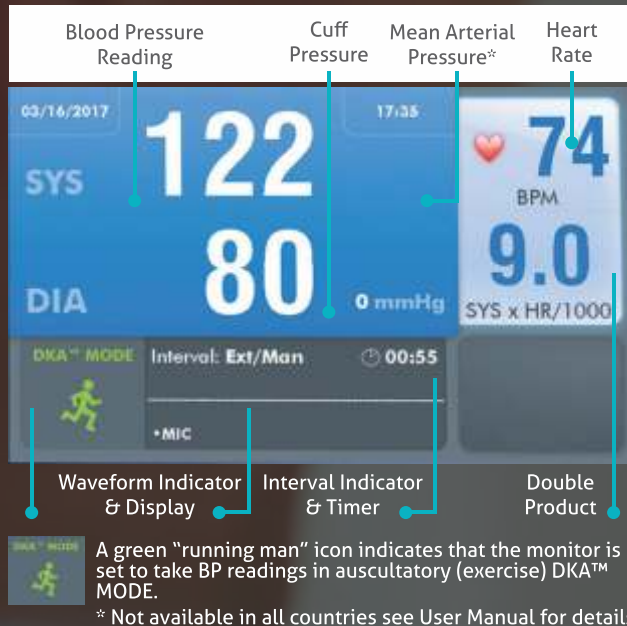
- **Seamless Integration**  
*Automated communication with your stress system reduces the risk of transcription errors*
- **Non-Exercise BP Mode**  
*Allows BP measurement during patient set-up and recovery without an ECG signal*
- **Stat mode**  
*Rapidly repeated automatic BP measurements for time sensitive and emergent situations*
- **Color LCD**  
*Improved usability with a new 7" color LCD display*
- **Verified Measurements**  
*See & hear the Korotkoff sounds using the onscreen display and the included headphones*
- **Data Retrieval**  
*Easier troubleshooting with 300 BP reading history and USB capabilities for measurement retrieval*



## Measurement View

# Tango Specifications

The Measurement View displays the current or most recent patient measurements as numeric readings.



### BP Measurement:

Auscultatory R-wave gating using K-sound analysis, for all static & active phases of stress testing.  
Oscillometric using pneumatic pressure for static measurements only.

### BP Sampling Intervals:

From integrated stress ECG system or other external source, or 1-20 minute intervals.

### Measurement Range:

Pressure (DKA Mode) Systolic: 40 - 270 mmHg, Diastolic: 20 - 160 mmHg (OSC Mode) Systolic: 40 - 260 mmHg, Diastolic: 20 - 160 mmHg; Heart Rate: 40 - 200 bpm

### Dimensions:

24.0 cm x 17.4 cm x 11.5 cm (9.5" x 6.9" x 4.5")

### Interfaces:

Integrates with all popular stress ECG systems using RS-232, BNC, ECG cable only for internal ECG & USB connections.

### Weight:

1.68 Kg (3.725 lb) (59.6 oz)

### ECG Source:

Primary - From integrated stress ECG system or other external source  
Secondary - Internal ECG option using V2, V6, RL

### Accuracy:

Equivalent to a trained observer using a cuff/stethoscope auscultation method per ANSI/AAMI/ISO 81060-2

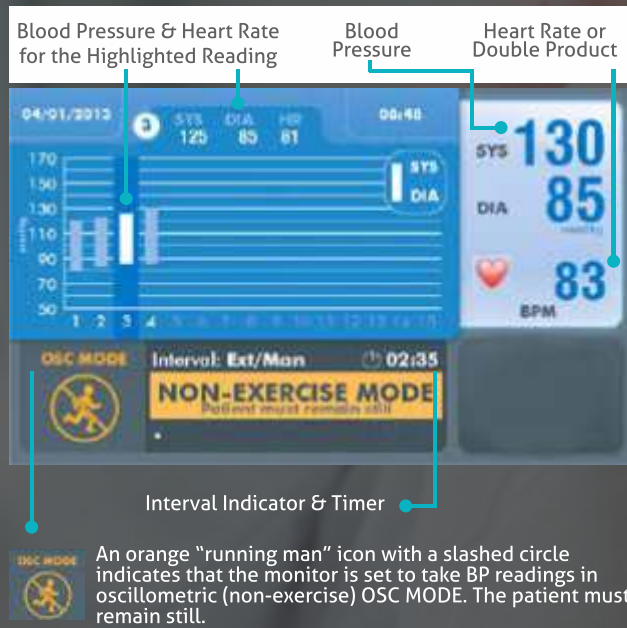
### Power:

Input - 100-240 VAC @ 1.5A, 50-60 Hz. Output: +9 VDC @ 5A IEC 320 type input connector  
Classification - Class I, continuous

### Standards:

IEC 60601-1:2005, IEC 60601-1-2:2007 (EMC), IEC 80601-2-30:2009, ISO 80601-2-61:2011, ISO 10993-1:2009, ISO 10993-5:2009, ISO 10993-10:2010, FDA 21CFR801.5, MDD, WEEE

The Graph View displays a summary of the most recent BP measurements, in addition to numeric display of other readings.



## Graph View

# Product Specifications

Treadmill Specification	Dynatra Ultra Mill
Dimensions (hxbxw)	1970x730x130mm
Walking/running Surface	1580x480mm
Walking Surface Height From Ground	130mm
Mill Weight	129 kg
Patient Weight Capacity	upto 180kg
Inclination/elevation Range	0 to 26%
Speed Range	0 to 30 kmph
Power Requirements	230V 5A
Gross Weight	187kg
Operating & Storage Conditions	10 - 50 DEGREE CELSIUS
Data Acquisition	
Sampling Rate	1000 Samples/sec
Acquisition	Simultaneous 12 lead acquisition, 12 bits
Leads	Standard 12 leads; Acquired 8 leads; Reconstructed 4 leads (III, aVR, aVL, aVF)
Input Dynamics	+/- 300mV @ 0Hz +/- 10mV in pass band
Input Impedance	>100 M ohms
Time Constant	3.2 Seconds
CMRR	90dB @ 50 Hz
DF Protection	Internal
Patient Leakage	<10 µA
Frequency Response	0.5Hz to 100Hz
Digital Filters (Linear Phase)	Mains Interference : 50Hz Notch Filter (always present) Anti-Drift Filter : Auto or 0.5Hz (-3dB) (selectable)

PC Communication	
PC Communication	Wireless through Blue-tooth (Available in Dynatrac Neo BT Acquisition unit) Through USB (Available in Dynatrac Neo USB Acquisition unit)
Signal Processing	
ECG Analysis	200 Samples/sec
QRS Detection	Single lead (selectable, automatic switching to lead II, if lead II is good and selected lead is noisy); default V5
Calculated Parameters	ST-Level, ST -Slope, HR, METS
Fiducial Points	Auto or Manual Selection
Enlarged Median Lead	Auto Lead selection (Lead having minimum ST level) or Manual lead selection
Median Update Interval	Every 8 sec
Display	
Resolution	1024 x 768 pixels (minimum)
ECG Display Format	3 lead or 6 lead or 12 lead median (selectable)
ECG Display Speed	25mm/sec or 50mm/sec (selectable)
ECG Display Sensitivity	5 or 10 or 20mm/mV (selectable)
Event Marker	Yes
Displayed Data	HR, Target HR, BP, Stage Time, Test Time, Speed, Grade, METS, Protocol name, Protocol Stage, ST-Level, ST-Slope, Leadoff information and Patient Name.

Filter	20Hz or 40Hz or No filter (Selectable)
Printing	
Print Format	User defined reports Printout with/ without grid
Paper Size	Plain Paper A4 size
Printing Speed	25mm/sec
Printing Sensitivity	10mm/mV
Filter	20Hz or 40Hz or No filter (Selectable)
Printouts	Automatic stage printouts and real time printouts (Selectable)
Review	
Full Disclosure ECG	Beat-to-beat raw ECG record of complete exercise
Marked Events	Review of marked events
Trend Graphs	Trend graphs of HR, ST-Level, ST-slope, BP, and J-amplitude
Data Storage	
Local Storage	On hard disk, separate folder for each test
External Storage	Selected records can be exported to CD-ROMs
<b>Battery Charger ELJINTEK, Inc.; Model No. GMPU06E-1 (for blue-tooth acquisition device)</b>	
Input AC Voltage Range	200 V to 240 V, 50 Hz
Power Output	5V DC, 2.5W
Safety Specification	Class II device as per IEC 60601

ECG Acquisition Device	
Power Source	blue-tooth: Rechargeable Li-ion Battery 3.7 V, 1900 mAh USB: Through USB connected to PC, power consumption >1W
Battery Charging	Through BPL Battery Charger GMPU06E-1 (for blue-tooth device)
Safety Specifications	blue-tooth: Class II, Type CF, Internally powered, Continuous operation as per IEC 60601-1 USB: IEC 60601-1, Class I, Type CF
Battery Charging Time	6 Hours (Max) only for blue-tooth device
Battery Capacity	Approx. 10 tests (each 30 min duration) only for blue-tooth device
Battery Charging Indicator	Available - Dual colour - only for blue-tooth device
Battery Low Indicator	Available - only for blue-tooth device
Operating Temperature	10 to 40°C
Relative Humidity	25 to 95 %, non-condensing
Storage Temperature	-20 to 60°C
Safety Standards	IEC 60601-1
blue-tooth Acquisition Device	
Dimension	170.5 mm x 106.5 mm x 22.5 mm (length x width x height)
Weight	< 160 gms

\*Technical specification subject to change

## CERTIFIED ISO 13485:2003, ISO 9001:2008 COMPANY

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