

ESSE-1515&ESMT-1000

Professional Stress ECG Solution



General Introduction

ESSE-1515&ESMT-1000 is the proven solution for stress ECG test. The powerful software ESSE-1515 provide comprehensive and streamlined workflow, which helps clinician always informed. The medical computer trolley ESMT-1000 is configured with multiple-port to connect with sampling box, ergometer, treadmill and printer. With cutting-edge technology of sampling and signal filtering, this solution can always give clinician a clearer tracings.

Sampling Box



DP12

Wired Sampling Box Support 9/12-lead ECG Support Resting & Stress ECG



DX12

Wireless Sampling Box Support 9/12-lead ECG Support Resting & Stress ECG



DE15

Wired Sampling Box Support 9/12/15/16-lead ECG Support Resting & Stress ECG



DE18

Wired Sampling Box Support 9/12/15/18-lead ECG Support Resting ECG



Sampling Box Specification

Sampling Box Spe			
	DE18/DE15	139mm× 96mm × 25mm, ± 5mm	
Dimensions	DP12	148mm (L) ×100 mm (W) × 40mm (H) , ± 2mm	
	DX12 transmitter	63mm(L)×107mm(W) ×23mm(H), ± 2mm	
	DX12 receiver	155mm(L)×100mm(W)×30mm(H), ± 2mm	
Weight	DE15/DE18	Approx. 215g	
	DP12	Approx. 210g	
	DX12 transmitter	Approx. 113g (not including battery)	
	DX12 receiver	Approx. 173g	
	DE18	Simultaneously 18 leads	
Acquisition Mode	DE15	Simultaneously 16 leads	
	DP12/DX12	Simultaneously 12 leads	
	DE18/DE15/DP12	1kHz (Analysis)	
Sample Frequency		16kHz (Sampling)	
Sample Frequency	DX12	0.5kHz (Analysis)	
		10kHz (Sampling)	
A/D	DE18/DE15/DP12	24 bits	
	DX12	18bits	
Resolution	DE18/DE15/DP12	0.1575uV/LSB	
Nesolution	DX12	2.52uV/LSB	
CMRR	DE18/DE15/DP12	≥123dB (AC OFF)	
	DX12	≥100dB (AC OFF)	
Frequency Response	DE18/DE15/DP12	0.01Hz~300Hz (-3dB)	
Trequency Response	DX12	0.05Hz~150Hz (-3dB)	
Input Impedance	DE18/DE15/DP12	≥100MΩ	
input impedance	DX12	≥20MΩ	
Input Circuit Current	DE18/DE15/DP12	≤10nA	
input circuit current	DX12	≤0.05µA	
DC Offset Voltage	DE18/DE15/DP12	±600mV	
De Oliser voltage	DX12	±500mV	
Noise	DE18/DE15/DP12	≤12.5µVp-p	
140150	DX12	≤15µVp-p	
Pacemaker Detection	DE18/DE15/DP12	±750uV ~ ±700mV, 50us ~ 2.0ms	
	DX12	±2mV ~ ±500mV, 0.1ms ~ 2.0ms	



Samp	Sampling Box Specification					
Filter	AC	DE18/DE15/DX12/DP12	50Hz/60Hz/Off			
	EMG	DE18/DE15/DX12/DP12	25Hz/35Hz/45Hz/Off			
	DFT	DE18/DE15/DP12 DX12	0.01Hz/0.05Hz/0.32Hz/0.67Hz 0.05Hz/0.32Hz/0.67Hz			
	LOWPASS Filter	DE18/DE15/DP12 DX12	300Hz/270Hz/150Hz/100Hz/150Hz/100Hz/75Hz 150Hz/100Hz/75Hz			
Input Voltage Range		≤±5mVp-p				
Time Constant		≥3.2s				
Gain		2.5, 5, 10, 20, 10/5, AGC (mm/mV)				
HR Range		30 bpm ~300 bpm				
Accuracy		±1 bpm				
Calibration Voltage		1mV ± 2%				
Minimu	num Amplitude 20 µVp-p					
Recovery Time After Defibrillation		<5 s				
Multich	annel crosstalk	≤0.5mm				
		Transmitting Frequency	2402 MHz ~ 2480 MHz			
DX12 Bluetooth	Frequency Band	2402 MHz ~ 2480 MHz				
	Modulation Type	FHSS, GFSK, DPSK, DQPSK				
		Transmitting Power	≥ 0 dBm			



Computer Trolley

	Operate system	Windows 10 professional, 64 bit	
	СРU	Intel [®] Celeron [®] CPU 3865U@1.8GHz	
	RAM	4 GB	
	Hard Drive	1 T	
cum	Optical Drive	DVD-RW	
	Input Devices	Alphanumeric Keyboard & Wireless Mouse	
ii	External Interface	5 USB; 1 RJ45 Network Ports; 1 RS232 Serial Port	
Power Supply		110V 2.0A / 220V 1.0A; 50 Hz / 60 Hz	
	Built-in Keyboard	BP Monitor Arm	
	Accessories Basket	Drawer	



Computer Trolley Specification				
Physical Specifications	Display	21.5" IPS-LCD (1920 × 1080)		
	Dimensions	640 × 510 × 1235 mm (length × width × high)		
	Weight	≤70 kg (with safe working load)		
	Features	Wire accessory basket Printer tray Drawer for paper 4 trolley casters with lock pedal BP monitor fixing plate		
	Load capacity	Basket: 5 kg Printer tray: 7.5 kg Drawer: 3.5 kg		
Safety Specifications	Standards Compliance	IEC 60601-1:2005/A1:2012 EN 60601-1:2006/A1:2013 IEC 60601-1-2:2014 EN 60601-1-2:2015		
	Anti-electric Shock Type	Class I equipment		
	EMC	CISPR 11 Group 1 Class A		
Environment Specifications	Temperature	Transport and Storage: -20 ºC ~ +55 ºC (-4ºF ~ +131 ºF) Working: +5 ºC ~ + 40 ºC (+41 ºF ~ +104 ºF)		
	Relative Humidity	Transport and Storage: 25% RH ~ 93% RH (non- condensing) Working: 25% RH ~ 80% RH (non-condensing)		
	Atmospheric Pressure	Transport and Storage: 70 kPa ~ 106 kPa Working: 86 kPa ~ 106 kPa		

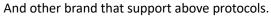


Optional Treadmill Trackmaster Runner **TMX428** RUN 2011/T United States Italy **CE** Certificated **CE** Certificated **FDA Registered** Lode WolfMedica Valiant 2 cpet CardioMed Netherland Greece **CE** Certificated **CE** Certificated **FDA Registered** More Treadmills are also supported including: Runner – RUN 2011/PC; RUN 7410; RUN 7411 h/p/cosmos – Mercury Med; Quasar Med

Runner – RUN 2011/PC; RUN 7410; RUN 7411 Trackmaster – TMX425; TMX425C; TMX425CP; TMX428CP And other brand that support above protocols.

Lode – Valiant Plus: Valiant Rehab

Optional Treadmil	I		
	Ergosana SANA BIKE 500 Germany CE Certificated		Lode Corival cpet Netherland CE Certificated
	Runner RU1400/T Italy CE Certificated		Ergoline Ergoselect 4 Germany CE Certificated
More Ergobikes are also supported including: Runner – RUN 700T Ergosana – SANA Bike 1000 easy		Ergoline – Ergoselect Series CardioWise – XRCISE CYCLE MED	





ESSE3 srl, Via Garibaldi 30 14022 Castelnuovo D.B. (AT) Tel +39 011 99 27 706 Fax +39 011 99 27 506 e-mail esse3@chierinet.it web: www.esse3.dreamgest.com

