




CARDIOEXPRESS® SL3



DIAGNOSTIC CARDIOLOGY
CONNECTIVITY IN CARDIOLOGY

Technical Specifications

Safety Standards	IEC 60601-1: 1988+A1+A2, EN 60601-1:1990+A1+A2, IEC/EN60601-1-2: 2001+A1, IEC/EN60601-2-25, ANSI/AAMI EC11, IEC/EN 60601-2-51 MPG: IIa			
Classification	Insulation Class:	Class I with internal power supply		
	Electric Shock Protection:	Class II Type CF		
	Degree of protection against liquid ingress:	Ordinary equipment (not protected against liquid ingress)		
	Disinfection/sterilization method:	Refer to the user manual for details		
	Degree of safety of application in the presence of flammable gas:	Equipment not suitable for use in the presence of flammable gas		
	Working mode:	Continuous operation		
	EMC:	Group I, Type A		
Dimensions	300mm × 260mm × 75mm			
Weight	2.5kg (without recording paper and battery)			
Display	320×240 dot single color LCD Screen			
Environment		Transportation/Storage	Working	
	Temperature:	-20°C~+55°C	+5°C~+40°C	
	Relative Humidity:	25%~93% No Condensation	25%~80% No Condensation	
	Atmospheric Pressure:	700hPa ~1060hPa	860hPa ~1060hPa	
Power Supply	Mains Supply:	Rated input voltage = 100V~240V		
		Rated frequency = 50/60Hz		
		Rated input power = 35VA		
	Built-in Lithium Battery Pack:	Rated voltage = 14.8V		
		Rated capacity = 2200mAh		
		Approx. 3.5 hours; approx. 3 hours recording in manual mode; about 300 ECG can be recorded in the Auto Mode		
		Charge mode: Constant current/voltage; Necessary charge time: 5 hours		
		Charge current (standard) = 0.28C ₅ A (600mA)		
		Charge voltage (standard) = (16.8±0.1V)		
		Cycle life ≥ 300 times		



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	Power Consumption:	35VA (max)
	Fuse:	T400mA 250V Ø5×20 / T200mA 250V Ø5×20
Recording	Recorder:	Thermal dot-matrix recorder
	Resolution:	8 dots per mm / 200 dots per inch (amplitude axes) 40 dots per mm / 1000 dots per inch (time axes, @ 25 mm/s)
	Recording Paper:	Folded thermal paper, 80mm×70mm×200pages Rolled thermal paper, 80mm×20m
	Effective Width:	72mm
	Paper Speed:	5mm/s, 6.25mm/s, 10mm/s, 12.5mm/s, 25mm/s, 50mm/s (±3%)
	Accuracy:	±5% (x-axis), ±5% (y-axis)
HR Recognition	Technique:	Peak-peak detection
	HR Range:	30 BPM ~300 BPM
	Accuracy:	±1BPM
ECG Unit	Leads:	12 standard leads
	Acquisition Mode:	Simultaneously 12 leads
	A/D Resolution:	12bits
	Time Constant:	≥3.2s
	Frequency Response:	0.05Hz ~ 150Hz (-3dB)
	Gain:	2.5, 5, 10, 20, 10/5, AGC (mm/mV)
	Input Impedance:	50M Ω (10Hz)
	Input Circuit Current:	≤ 0.05μA
	Input Voltage Range	<±5 mVpp
	Calibration Voltage:	1mV±3%
	DC Offset Voltage:	±500mV
	Noise:	<12.5μVp-p
Multichannel crosstalk:	≤0.5mm	



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	Filter:	AC Filter: On/Off
		DFT Filter: 0.05Hz / 0.15Hz / 0.25Hz / 0.32Hz / 0.5Hz / 0.67Hz
		EMG Filter: 25Hz/35Hz/45Hz/OFF
		LOWPASS Filter: 150Hz/100Hz/75Hz
	CMRR:	≥115dB / ≥115dB
	Sampling Frequency:	1000Hz
Patient Leakage Current:	NC	<10µA (AC) / <10µA (DC)
	SFC	<50µA (AC) / <50µA (DC)
Patient Auxiliary Current:	NC	<10µA (AC) / <10µA (DC)
	SFC	<50µA (AC) / <50µA (DC)
Dielectric Strength:		4000V rms
External Input/Output (Optional)	Input:	≥100kΩ; Sensitivity 10mm/V±5%; Single ended
	Output:	≤100Ω; Sensitivity 1V/mV±5%; Single ended
Storage:	144 x 12-leads x 10 sec	
Interfaces:	RS232, HSB x 2, PS 2 x 1, Ethernet x 1, patient cable input SVID x 1	



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