



Certified Refurbished

For the most challenging cardiac rhythms

- Analyses cardiac interval patterns
- Automatic selection of R-Wave deflation
- Reliable A-Fib tracking
- Rapid QRS identification
- Improved arrhythmia management

- The Datascope System 97E features a highly advanced second generation IAB timing control system that combines the sophistication of CardioSync 2 with rapid QRS identification and the fastest IAB inflation and deflation speeds available.
- Faster speeds provide greater diastolic augmentation, enhanced unloading, and a wider use of R-Wave deflation triggering to track and effectively assist patients with arterial fibrillation.
- A smart pattern-based timing algorithm, CardioSync™, rapidly adapts to difficult ectopics and sudden rate changes without interruption of pumping.
- The System 97E also offers a host of user convenience features that make it easier to use in the OR, Cath Lab, CCU and in transport.



Technical Specifications

Mechanical

Dimensions	43" H x 22" W x 17" D (109 51 x 25 cm)
Off hospital cart	27" H x 50" W x 10" D (68 x 51 25 cm)
Weight	
-Console	82 lbs (37 kg)
-Battery	35 lbs (16 kg)
-Monitor	8 lbs (4 kg)
-Hospital Cart	58 lbs (26 kg)

Electrical

Battery Pack	24 V DC, 18 Ah
Type	Sealed lead acid maintenance free
Battery Operating Time	2 hours @ 120 bpm
Battery Recharge Time	18 hours maximum from completely discharge to full
AC Power Requirement	300 VA normal, 90-130 V, 50/60 Hz; 200-260, 50/60 Hz

Pneumatics

System Compressor	Dual head diaphragm pump brushless DC motor
Patient Balloon Pump Gas	Medical-grade helium
Blood Detection	Automatic protection of compressor pneumatics and isolation of blood in auto fill line
Condensate Removal	Automatic condensate removal and disposal via thermo-electric cooling

Display

Type	Gas plasma, 5.2" x 8.25" (132 x 210 mm)
Channels	ECG and arterial pressure plus optional balloon pressure waveform
Reference Line	0-300 mm Hg/max

ECG

Leads	I, II, III, aVR, aVL, aVF, V
Frequency Response	0.5-135 Hz output jack 0.5 - 12 Hz display
Leakage Current	<10 μ A source current, <20 μ A sink current
Defibrillator Protection	Discharge levels up to 500 joules
Recovery Time	Trace returns to screen, 2 sec maximum

Trigger Source

ECG Trigger Requirement	120 μ V \pm μ V at max. gain
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Trigger Source continued

Pacer Rejection (no tails)	\pm 2mV to \pm 700 mV duration 0.1 ms to 2 ms
Pressure	Adjustable between 7 mmHg to 30mmHg pulse amplitude
Pacer A-V	A-V interval 80-225 ms rate < or equal to 125 bpm
Pacer A	Trigger requirement (same as ECG)
Pacer V	< 185 bpm
Internal	40-120 in 5 bpm increments; default rate 80 \pm 1 bpm
ESIS	Automatic suppression with internal ECG amplifier

Pressure

Pressure Sensitivity to Trigger	7mmHg min pulse amplitude
Transducer Requirements	Sensitivity - 5.0 μ V/V/mmHg
Excitation	+5V DC
Zero range	\pm 120 mmHg

Inputs/Outputs

ECG Connectors	6-pin 5-lead AAMI proposed standard; patient input 3 - conductor phone jacks; monitor level
Pressure Connectors	6-pin male connector, Datascope-specified compatible transducer, 3-conductor phone jack; monitor level
Voltage Interface	ECG = 1V/mV nominal arterial pressure = 1V/00 mmHg nominal

Trend Display

Memory	8 hours total; 30 minutes of 5 minutes average; 7.5 hours of 15 minutes average
Data Available	Heart rate, peak systolic pressure, diastolic pressure, ean and augmented pressure

Recording Format

Recorder	Thermal array type recorder/ 2" thermal paper
Waveform Presentation	ECG, arterial pressure, optional balloon pressure waveform
Graphic Presentation	Heart rate trend, pressure trends
Vent Marker	Trigger point
Inflate interval	

Annotations

ECG	Lead
Pressure	Scale
Parameters	Heart rate, systolic, diastolic, mean augmented pressure
Trend	Same as trend display