Technical Specifications

Color Display: 8.3"(21 cm)W x 6.2"(15.8 cm)H, up 45°, down 55°, right 70°, left 70° viewing angle; Rotates 330°; Tilts 180°; Detachable; Laptop-like closure for storage and protection; Remote monitor mount (optional).

Preferences Menu: User may select display sweep speed (25 or 50 mm/sec), brightness (low, med, high), balloon waveform (on/off), ECG inflation markers (on/off), flashing alarms (on/off).


ECG Trigger: Threshold dynamically adjusted by system for high sensitivity and selectivity of the R-wave detection: Minimum = 120µV ± 20µV at normal gain; 40µV at max gain. In variable mode: User adjustable between 7 and 30 mmpHg ± 3 mmpHg.

Pressure Trigger: Default trigger threshold is automatically adjusted to 38% of the difference between peak systolic and end diastolic avg. (over multiple cycles); In variable mode: User adjustable.

Pacer A Trigger: R-wave detection (as above) except pacer blanking is extended to 100 ms.

Pacer VA-V Trigger: V-Pacer: fixed rate up to 185 bpm (no demand pacing) A-V Pacer: fixed rate up to 125 bpm (no demand pacing) with A-V intervals between 80-224 ms. Variable rate: 40-120 bpm; Normal mode: 80 ± 1 bpm. 4) 100 ms time constant tail < 1 mV; 3) 25 ms time constant tail < 1 mV; 2) 100 ms time constant tail < 2 mV.

Pacer Rejection: Rejects all T-Waves where Q-T interval is <300 ms.

ECG Gain (default): I, II, III, AVR, AVL, AVF, V, External (12 lead compatibility). Gain (variable): 0.15 to 3.0 mV/cm ± 20% (autoscaling disabled).

Frequency Response: 8 MHz non-directional probe. Defibrillator Protection: Discharge levels ≥360 J (trace returns to screen in 5 sec. max).

ESIS: Automatic suppression with internal ECG amplifier.

AP Source Selection: Transducer/external (menu based). AP Input Sensitivity: 5.0µV/mV±10%. AP Excitation: +5 VDC ± 5% @ 130 mA (max). AP Frequency Response: DC to 12 Hz (display).

External Mon. Inputs: ECG 1 V/mV (nominal); AP 1 V/100 mmpHg (nominal). Phone Jack: ECG 1 V/mV, BP 1V/100 mmpHg.

Mains Voltage: 100-120 VAC ± 10% or 220-240 VAC ± 10%.

Internal Battery: 24 VDC (nominal), 17.2 Amp-hour; 3 hrs. (approx. @ 90 bpm).

Battery Type: Maintenance free; Sealed lead-acid.

System Compressor: Dual head diaphragm pump with brushless DC motor.

IAB Helium (He+): Medical-grade; 0.5 L (2900 psi) or 0.69 L (2200 psi). He+ Endurance: 1.8 mo. (1.5 L); 2 mo. (0.69 L). Continuous operation - 24 hrs/day.

IABP: Fully automatic condensate removal and disposal.

WIN-IABP (optional): Software for remote clinical assistance and training.

Service Diagnostics: Built-in software for system analysis and troubleshooting.

Modem Data Rate: Up to 9,600 baud.

Modem Certifications: Registered with FCC and accepted in ≈ 89 countries.

U.S. Complying to NEC spec (NEC: EL-LCD0034 (2))

EC Medical Device Directive 93/42/EEC
IEC 60601-1-2: 1994
Regulatory Compliance: Not available.
CS100 Software, Color Display and Keypad Controls

Intellisync Software with R-Trac automatically selects the optimal trigger source, continuously monitoring and adapting to patient’s rhythms to provide better tracking, triggering and support of isolated PVC’s, ectopic patterns and atrial fibrillation.

- **Fast QRS Recognition**
  - Enhanced R-Wave deflation performance.

- **Color-coded trigger source indicator**
  - Corresponds to signal waveform.

- **Large, crisp labeling**

- **Automatic Scaling of AP and ECG waveforms.**

- **Unassisted Systolic and Diastolic Pressures**
  - Posted in 1:2 or 1:3 assist frequency.

- **Timing control indicators**
  - Display inflate and deflate settings.

- **Low Augmentation Alarm**

- **Helium and Battery Level Icons**

- **Help Screen Availability Indicator**

- **ZERO PRESSURE key**
  - Relocated for ease of use.

- **One-Button Start-Up.**
  - Press START key and CS100 automatically conducts autofill, selects trigger source, sets timing, initiates 1:1 assist and increases augmentation to MAX.

- **STANDBY key**
  - Now separate control from START key.

- **Timing control keys**
  - Replace sliders.

- **Settings displayed on-screen for easier viewing.**

- **Intuitive IAB Status Indicator**

- **Built-in Service Diagnostics Software**
  - Display/kepad convert to diagnostic program.

- **Fast Inflation Speeds**

- **Fast Deflation Speeds**

- **Operation Mode Indicator:**
  - Auto, Semi Auto, Manual

- **Time-in-Standby**
  - Posted (here) after 1 minute in standby.
  - Advisory message/tone posted after 10 minutes.

- **Bright Full Color Display**
  - High contrast screen with wide viewing angle and easy rotation/tilt.

- **Fast QRS Recognition**
  - Enhanced R-Wave deflation performance.

- **Color-coded trigger source indicator**
  - Corresponds to signal waveform.

- **Large, crisp labeling**

- **Automatic Scaling of AP and ECG waveforms.**

- **Unassisted Systolic and Diastolic Pressures**
  - Posted in 1:2 or 1:3 assist frequency.

- **Timing control indicators**
  - Display inflate and deflate settings.

- **Low Augmentation Alarm**

- **Helium and Battery Level Icons**

- **Help Screen Availability Indicator**

- **ZERO PRESSURE key**
  - Relocated for ease of use.

**CS100 Software, Color Display and Keypad Controls**
Fully automated operational mode

Intuitive arrow key trigger selection controls

Fewer keys for simple operation.

“Laptop style” display and keypad can be detached for remote operation

Easier selection of available help menu screens.

New, intuitive menu navigation system and controls.

Convenient Signal Source Selection, switching between direct patient and external signals.

User Preferences. Preset sweep speed, brightness, balloon waveform and inflation markers on ECG.

One-button printing. Fully annotated printout, user-configurable waveforms and strip length.

One-Button Start-Up. Press START key and CS100 automatically conducts autofill, selects trigger source, sets timing, initiates 1:1 assist and increases augmentation to MAX.

STANDBY key now separate control from START key.

Timing control keys replace sliders. Settings displayed on-screen for easier viewing.

Rugged Urethane Overmoldings
The CS100 with INTELLISYNC™ automated arrhythmia tracking and timing algorithms represents a generational leap in IABP technology. Building upon the sophistication of the original CardioSync algorithm, the CS100 automatically fills the IAB, selects the optimal trigger and sets both inflate and deflate timing at the touch of a button. A bright, full-color monitor displays crisp, clean waveforms.
Getinge Group is a leading global provider of products and systems that contribute to quality enhancement and cost efficiency within healthcare and life sciences. We operate under the three brands of ArjoHuntleigh, Getinge and Maquet. ArjoHuntleigh focuses on patient mobility and wound management solutions. Getinge provides solutions for infection control within healthcare and contamination prevention within life sciences. Maquet specializes in solutions, therapies and products for surgical interventions, interventional cardiology and intensive care.