EnSite Velocity™

Cardiac Mapping System

MODEL EE3000

SPECIFICATIONS

SYSTEM

- The EnSite Velocity System features an open platform that supports current clinical applications and future system development — it is compatible with most manufacturers' catheters, ablation generators, recording systems and imaging equipment

- Includes the following hardware:
  - Display Workstation
  - Amplifier
  - Optional Accessories

DISPLAY WORKSTATION

- The EnSite Velocity Display Workstation is the user interface for controlling the EnSite Velocity System and is available in either a mobile (cart) or fixed installation

- The system software (Linux operating system) interprets and graphically displays the data from the EnSite Velocity Amplifier

- (2) Quad core CPU PC, PCI Express graphics, and DVD/CD writer—recording speed determined by media used

- 4 GB main memory

- 1 TB hard drive
  - 400 GB patient data storage

- nVidia Quadro FX video graphics card

- Dimensions:
  - Standalone Workstation: 17.3 H x 6.5 W x 17.3 D inches (44 H x 16.5 W x 44 D cm)
  - Workstation Power Kit: 12 H x 9 W x 4.5 D inches (30.5 H x 23 W x 11.5 D cm)
  - 24 inch (61 cm) LCD High Definition Flat-Panel Monitor (widescreen, 1920 x 1200 resolution, 16:9 aspect ratio): 14.5 H x 22.1 W x 3.6 D inches (37 H x 56 W x 9 D cm)
  - Workstation Cart (Optional): 33.9 H x 24.8 W x 32.7 D inches (86 H x 63 W x 83 D cm)

- Weight:
  - Standalone Workstation: 33 lbs (15 kg)
  - Workstation Power Kit: 19 lbs (8.6 kg)
  - LCD High Definition Flat-Panel Monitor: 19.4 lbs (8.8 kg)
  - Workstation Cart (Optional): 90 lbs (41 kg)

- Keyboard (USB) and mouse (USB, optical with scroll wheel)

- Fiber optic media converter with fiber optic cable

AMPLIFIER

- The EnSite Velocity Amplifier accepts signals from electrodes connected to the patient, converts these signals to a digital format and sends them to the Workstation for processing

- Either positioned near the patient bedside in a cart installation or it may be placed under the bed in a fixed installation

- Dimensions:
  - Standalone Amplifier: 19.3 H x 18.1 W x 20 D inches (49 H x 46 W x 51 D cm)
  - Amplifier Cart (Optional): 37 H x 24.4 W x 22.8 D inches (94 H x 62 W x 58 D cm)

- Weight:
  - Standalone Amplifier: 68 lbs (31 kg)
  - Amplifier Cart (Optional): 92 lbs (42 kg)

AMPLIFIER

- Signal Processing Specifications
  - Sampling rate: 2 kHz
  - Gain accuracy: ± 2%
  - Resolution: 24 bits
  - Input signal DC offset: ± 1500 mV
  - Input amplitude accuracy:
    - Absolute 10%
    - Channel to channel 5%

- Safety Specifications
  - Classification: Class II
  - Leakage: Conforms with IEC 60601-1
  - Defibrillator Protection: Conforms to IEC 60601-2-27; Type CF, Type BF; Defibrillator-proof applied parts
  - Isolation: > 4000 volts: > 5000 volts surge
  - Protection against the ingress of water: IPX0

POWER INPUT

- Input voltage — 100, 110/120, 220/240 V ~ 50/60 Hz

- Power inputs (nominal):
  - Display Workstation: 450 W maximum
  - Amplifier: 400 W maximum

- Mode of operation — continuous

ACCESSORIES

- Color printer (USB enabled)

- Remote monitor options
  - 24 inch (61 cm) — same specifications as Display Workstation monitor
  - 21 inch (53 cm) LCD High Definition Flat-Panel Monitor (1600 x 1200 resolution, 4:3 aspect ratio): 14.2 H x 18.3 W x 2.8 D inches (36 H x 46.6 W x 7 D cm)
    - Weight: 14.1 lbs (6.1 kg)
  - Remote monitor stand (compatible with 24 or 21 inch monitor; additional cable included)

- EnSite Connect℠ Remote Support
  - Allows for rapid troubleshooting and diagnosis of problems
  - Works over a secure encrypted Internet connection utilizing an outgoing Secure Socket Layer (SSL) connection to the EnSite Connect Servers
  - Various controls have been integrated to regulate how and when EnSite Connect can be used. Supports DHCP as the default for obtaining an IP address
  - The device can also be set up to use a static IP address
  - If a proxy server is required for Internet access, the EnSite Velocity System can use proxy servers supporting basic/digest authentication

ST. JUDE MEDICAL™

MORE CONTROL. LESS RISK.

- Input From Patient
  - ECG: 12 lead
  - Catheter electrodes: 2 mm patient-safe jacks
  - Ablation catheter: Custom cable assembly
  - EnGuide signal: 8.138 kHz signal to up to four EP catheter electrodes
  - EnSite Array: Custom assembly
- Input From Other Equipment
  - Ablation generator: Custom assemblies

RecordConnect

- Recording devices can be connected to the EnSite Velocity System via either a tailor-made RecordConnect or Universal Catheter Input Module
- Dimensions: 4 H x 14 W x 5.5 D inches (10.2 H x 35.6 W x 14 D cm)
- Weight: 4 lbs (1.8 kg)
- Multiple RecordConnect modules are available to ensure compatibility with the chosen amplifier
  - St. Jude Medical EP-WorkMate™ Recording System
  - GE Cardiolab® IT
  - Siemens AXIOM Sensis
  - GE Prucka Cardiolab®
  - Bard STAMP™
  - Bard CLEARSIGN™

CathLink

- Connects catheters to the EnSite Velocity System when a RecordConnect is not used
- Dimensions: 10.5 H x 5 W x 2 D inches (26.7 H x 12.7 W x 5 D cm)
- Weight: 1.5 lbs (0.7 kg)

GenConnect

- Connects the ablation catheter electrodes to the EnSite Velocity System and isolates the EnSite location signal from the ablation generator
- Dimensions: 3 H x 9 W x 5.5 D inches (7.6 H x 22.9 W x 14 D cm)
- Weight: 1 lb (0.4 kg)
- Tailor-made GenConnect modules are available for most ablation generators
  - St. Jude Medical T Series
  - Stockert® 70 RF
  - Boston Scientific EPT 1000-XP™ and Maestro 3000™
  - Medtronic Atakr® II
- The EnSite Velocity System is compatible with cryoablation systems

NavLink

- Connects the EnSite NavX™ surface electrodes and System Reference patches to the Amplifier; the Aux Reference also plugs into the NavLink module
- Dimensions: 5.5 H x 3.5 W x 2.5 D inches (14 H x 8.9 W x 6.4 D cm)
- Weight: 0.5 lb (0.2 kg)

ArrayLink

- Connects the data module for the EnSite Array™ catheter and Aux Reference cables to the Amplifier
- Comparable in size and weight to NavLink (shown directly above)

EnSite NavX™ Navigation and Visualization Technology

- EnSite NavX components—product code 10003331
  (small size available outside the United States only—product code 10003333)
  - Set of three pairs of surface patches
  - Data module
  - System reference patch
  - 10 ECG electrodes
- Specifications:
  - 100003331:
    Front and back patches: 7.0 x 4.0 inches (2.8 x 1.6 cm)
    All others: 4.0 x 2.0 inches (1.6 x 0.8 cm)
  - 100003333:
    Front and back patches: 4.0 x 4.0 inches (1.6 x 1.6 cm)
    All others: 2.5 x 2.0 inches (1.0 x 0.8 cm)

EnSite Array Catheter

- Noncontact, multi-electrode catheter that maps arrhythmias in as little as a single heartbeat and translates the real-time cardiac electrical information into a three-dimensional activation map
- Specifications:
  - Number of electrodes: 64
  - Product code: EC1000
  - Length: 49.2 inches (125 cm)
  - Usable shaft length: 43.3 inches (110 cm)
  - Body size: 9 F
  - Tip configuration: Atraumatic pigtail
  - Balloon dimensions: 0.7 x 1.8 inches (1.8 x 4.8 cm)
  - Guidewire compatibility: 0.032 inch extra stiff or 0.035 inch (inner lumen 0.037 inch)

Note: NavLink, ArrayLink and CathLink may be mounted to the patient bedrail via a clamp and mounting bracket available from St. Jude Medical

ACCESS   MAPPING AND VISUALIZATION   DIAGNOSIS   THERAPY   MONITORING

SJMprofessional.com/Velocity

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MORE CONTROL. LESS RISK.