

EnSite Velocity™

Cardiac Mapping System

MODEL EE3000



SPECIFICATIONS

SYSTEM

- The EnSite Velocity System is an open platform that supports current clinical applications and future system developments
- 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 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
- nVidia Quadro FX video graphics card
- 400 GB patient data storage
- 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, 3-button)
- Fiber optic cable and video extender (shielded CAT5e cable) included

AMPLIFIER

- The Amplifier controls inputs for all patient connections and provides a bedside display of the system interface
- Generally 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: 92 lbs (42 kg)
- Signal Processing Specifications
 - Sampling rate: 2 kHz
 - Gain accuracy: $\pm 2\%$
 - Input amplitude accuracy: Absolute 10%: channel to channel 5%
 - Resolution: 24 bits
 - Input signal DC offset: ± 1500 mV
- 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)
- Bedside 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)
 - Remote monitor stand (compatible with 24 or 21 inch monitor; additional cable included)
 - No bedside monitor (St. Jude Medical does not supply digital to analog converters)
- Weight: 14.1 lbs (6.1 kg)
- EnSite ConnectSM
 - Allows for rapid and accurate 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 System can use proxy servers supporting basic/digest authentication



ST. JUDE MEDICAL™

MORE CONTROL. LESS RISK.

SYSTEM CONNECTIONS

- 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 System 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 interconnector kits are available to ensure compatibility with the chosen amplifier
 - St. Jude Medical EP-WorkMate™
 - GE Cardiolab® IT
 - Boston Scientific Maestro 3000™
 - GE Prucka Cardiolab
 - Siemens AXIOM Sensis
 - Bard CLEARSIGN™
 - Bard Stamp

CathLink

- CathLink module 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 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™
 - Medtronic Atakr® II
- The EnSite Velocity System is compatible with cryoablation systems

NavLink

- Connects the NavX and System Reference patches to the Amplifier, the Aux Reference also plugs in 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 EEPROM (data module), and the Array and Aux Reference cables to the Amplifier
- Comparable in size and weight to NavLink

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

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:
 - Type: Noncontact, multi-electrode catheter
 - Length: 49.2 inches (125 cm)
 - Body size: 9 F
 - Balloon dimensions: 0.7 x 1.8 inches (1.8 x 4.8 cm)
 - Product code: EC1000
 - Number of electrodes: 64
 - Usable shaft length: 43.3 inches (110 cm)
 - Tip configuration: Atraumatic pigtail
 - 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

Global Headquarters
One St. Jude Medical Drive
St. Paul, Minnesota 55117
USA
+1 651 756 2000
+1 651 756 3301 Fax

Atrial Fibrillation Division
One St. Jude Medical Drive
St. Paul, Minnesota 55117
USA
+1 651 756 2000
+1 651 756 3301 Fax

SJMprofessional.com



ST. JUDE MEDICAL™
MORE CONTROL. LESS RISK.

Rx Only

Brief Summary: Prior to using these devices, please review the Instructions for Use for a complete listing of indications, contraindications, warnings, precautions, potential adverse events and directions for use.

Devices depicted may not be available in all countries. Check with your St. Jude Medical representative for product availability in your country.

Maestro 3000 and 1000 XP are trademarks of Boston Scientific. CLEARSIGN is a trademark of Bard. Cardiolab is a trademark of GE Healthcare. Atakr is a trademark of Medtronic, Inc. Stockert is a trademark of Biosense Webster.

Unless otherwise noted, ™ indicates a registered or unregistered trademark or service mark owned by, or licensed to, St. Jude Medical, Inc. or one of its subsidiaries. ST. JUDE MEDICAL, the nine-squares symbol and MORE CONTROL. LESS RISK. are registered and unregistered trademarks and service marks of St. Jude Medical, Inc. and its related companies.

©2009 St. Jude Medical, Inc. All rights reserved.

Item 100019448