

RHYTHMIA HDx™ MAPPING SYSTEM

OVERVIEW

The RHYTHMIA HDx Mapping System includes the following main components:

- Workstation (PC, Software, Monitor and, Accessories)
- Signal Station
- Localization Generator
- Boxes (IC In), IC Out Direct Connect Cables, and IC-72 Out Universal Cable
- ECG In Cables, ECG Out Boxes, and ECG Out Direct Connect Cables
- Ablation Connection Boxes
- System & Workstation Carts (available as optional accessories)



System Specifications

SIGNAL STATION

The Signal Station (SiS) accepts signals from the intracardiac catheters and ECG electrodes used during Electro-physiology (EP) procedures. It amplifies and digitizes these signals and transfers them to the Workstation for real-time processing and display. The SiS also supports catheter localization/tracking and diagnostic stimulation.

- Position:
 - The Signal Station should be placed on a dedicated table or cart that is adjacent to the foot of the patient table.
- Dimensions (WxDxH):
 - 41.0 x 38.9 x 26.2 cm
- Patient Inputs:
 - 12 lead ECG
 - 64 intra-cardiac channels for the INTELLAMAP ORION™ High-Resolution Mapping Catheter
 - 136 additional intra-cardiac channels to connect commonly used diagnostic and ablation catheters
- Connectivity with other lab equipment:
 - Stimulator: Up to 2 stimulator channels
 - Recording System: Outputs all signals to a recording system including Direct Connect IC and ECG Out Cables for LS Pro and GE CardioLab Recording Systems
- RF Generator: Dedicated connection to Maestro and EP Shuttle RF Generators
- Signals Specifications:
 - Resolution: 24 bits
 - Noise floor: 10 μ V
 - Input Amplitude
- Accuracy: < 5 %
- Power Inputs:
 - Input Voltage: 100-240 VAC/50Hz; 100-220 VAC/60 Hz
 - Input Current: 2.3A at 115 VAC; 1.2 A at 230VAC
- Safety:
 - IEC 60601-1; IEC 60601-1-1; IEC 60601-1-2; IEC 60601-2-27; IEC 60601-1-6
 - CISPR 11/EN 55011:2009+A1:2010, Group 1, Class A
 - Protection against electric shock: Class I, Type CF
 - Protection against fluid ingress: IPX1
 - Isolation: > 4250V



WORKSTATION PC

The Workstation includes computer hardware (e.g. computer, monitor, keyboard, mouse, and power cords) and system software. It acquires, interprets, and displays the data received from the Signal Station during EP mapping procedures. In addition to operating the system software, the Workstation can also store, retrieve, and export study data.

- Position:
 - The Workstation is typically positioned in the control room
- Operating System: Linux
- Dimensions (WxDxH):
 - Z6 Series - 17.1 x 47.3 x 44.3 cm
- Connection to Signal Station:
 - Fiber optic cable
- CPU Power Inputs:
 - Input Voltage: 100-240VAC
 - Input Current: 8.0A
 - Input Frequency: 50-60Hz



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WORKSTATION PC (cont.)

- Accessories: Keyboard and mouse
- Monitor
 - Display Size: 24" (61 cm)
 - Resolution: 1920 x 1200
 - Dimensions (WxDxH): 56.2 x 6.1 x 36.8 cm
 - Dimensions with stand (WxDxH): 56.2 x 23.5 x 42.9 cm
- Monitor Power Inputs:
 - Input Voltage: 90-265 VAC
 - Input Current: 1.0 A
 - Input Frequency: 50-60 Hz

LOCALIZATION GENERATOR

The Localization Generator generates magnetic fields under the patient table, to support catheter localization.

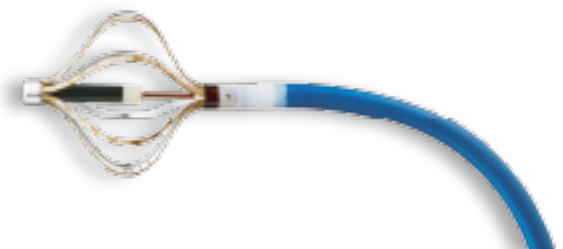
- Position:
 - The Localization Generator is placed under the patient table.
- Dimensions (WxDxH): 45.0 x 55.4 x 7.0 cm



INTELLAMAP ORION™ HIGH-RESOLUTION MAPPING CATHETER

The INTELLAMAP ORION is a 64-electrode catheter designed to acquire high-resolution signals from all cardiac chambers.

- 8.5F (2.8 mm), bi-directional steerability
- 64 0.4 mm²-electrodes, 8 splines
- Variable deployment, 3-22 mm diameter
- Connects directly to the Signal Station with a direct connect umbilical cable



INTELLAMAP ORION™ HIGH-RESOLUTION MAPPING CATHETER

Carts may be provided to enhance system storage and transportation

- System Cart
 - Holds the Signal Station, Localization Generator and accessories.
 - The System Cart can also hold a monitor:
 - Dimensions (WxDxH) without monitor: 71.2 x 57.2 x 109.3 cm
 - Dimensions (WxDxH) with monitor: 71.2 x 57.2 x 177.9 cm
- Workstation PC Cart
 - Holds the Workstation, monitor, keyboard and mouse.
 - Dimensions (WxDxH) with monitor: 71.2 x 57.2 x 147.4 cm

