

# RHYTHMIA™ MAPPING SYSTEM

## OVERVIEW

### The Rhythmia Mapping System includes the following main components:

- System Workstation (CPU, Monitor, Accessories)
- Signal Station
- Localization Generator
- Maestro 4000™ RF Generator specific hardware/cables
  - Stockert and IBI connection boxes are available for an additional charge
- Location Reference Back-Patch
- Carts for system and workstation (optional)



## SYSTEM SPECIFICATIONS

### SIGNAL STATION

The Signal Station accepts signals from the intracardiac catheters and ECG electrodes used during electrophysiology (EP) procedures. It amplifies and digitizes these signals and transfers them to the workstation computer for real-time processing and display. The Signal Station also supports catheter localization.

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| <ul style="list-style-type: none"> <li>• Position:           <ul style="list-style-type: none"> <li>– The Signal Station should be placed on a dedicated table or cart that is adjacent to the foot of the patient table.</li> </ul> </li> <li>• Dimensions (W x D x H):           <ul style="list-style-type: none"> <li>– 36.9 x 35.1 x 24.2 cm</li> </ul> </li> <li>• Patient inputs:           <ul style="list-style-type: none"> <li>– 12 lead ECG</li> <li>– 64 intra-cardiac channels for the IntellaMap Orion™ High-Resolution Mapping Catheter</li> <li>– 128 additional intra-cardiac channels to connect commonly used diagnostic and ablation catheters</li> </ul> </li> <li>• Connectivity with other lab equipment:           <ul style="list-style-type: none"> <li>– Stimulator: Up to 4 stimulator channels</li> <li>– Recording System: Outputs all signals to a recording system</li> <li>– RF Generator: Dedicated connection to Maestro, Stockert, and IBI RF generators</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>• Signals specifications:           <ul style="list-style-type: none"> <li>– Resolution: 24 bits</li> <li>– Noise floor: 10 <math>\mu</math>V</li> <li>– Input Amplitude Accuracy:               <ul style="list-style-type: none"> <li>Absolute: &lt;1 %</li> <li>Channel to channel: &lt;1 %</li> </ul> </li> </ul> </li> <li>• Power inputs:           <ul style="list-style-type: none"> <li>– Input Voltage: 100 - 240VAC</li> <li>– Input Current: 0.7 - 1.63A</li> <li>– Input Frequency: 47 - 63 Hz</li> </ul> </li> <li>• Safety:           <ul style="list-style-type: none"> <li>– IEC 60601-1; IEC 60601-1-1; IEC 60601-1-2; IEC 60601-2-27</li> <li>– EN 55011, Group A, Class A, 1991; CISPR 11, Group 1, Class A: 1990</li> <li>– Protection against electric shock: Class I, Type CF</li> <li>– Protection against fluid ingress: IPX1</li> <li>– Isolation: &gt; 4250V</li> </ul> </li> </ul> |  |
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### Workstation PC

The workstation is a computer that includes the user interface and acquires, interprets, and displays the data received from the Signal Station during EP mapping procedures. The workstation can also store, retrieve and export study data.

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| <ul style="list-style-type: none"> <li>• Position:           <ul style="list-style-type: none"> <li>– The workstation is typically positioned in the control room.</li> </ul> </li> <li>• Operating System: Linux</li> <li>• Dimensions (W x D x H):           <ul style="list-style-type: none"> <li>– 7.8 x 44.8 x 44.6 cm</li> </ul> </li> <li>• Connection to Signal Station:           <ul style="list-style-type: none"> <li>– Fiber optic cable</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>• Power inputs:           <ul style="list-style-type: none"> <li>– Input Voltage: 100 - 240VAC</li> <li>– Input Current: 8.0 A</li> <li>– Input Frequency: 50 - 60Hz</li> </ul> </li> <li>• Accessories: Keyboard and mouse</li> <li>• Monitor           <ul style="list-style-type: none"> <li>– Display Size: 24" (61cm)</li> <li>– Resolution: 1920 x 1200</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>– Dimensions (W x D x H):           <ul style="list-style-type: none"> <li>– 56.2 x 6.1 x 36.8 cm</li> </ul> </li> <li>– Dimensions with stand (W x D x H):           <ul style="list-style-type: none"> <li>– 56.2 x 23.5 x 42.9 cm</li> </ul> </li> <li>• Power inputs:           <ul style="list-style-type: none"> <li>– Input Voltage: 90 - 265VAC</li> <li>– Input Current: 1.0A</li> <li>– Input Frequency: 50 - 60 Hz</li> </ul> </li> </ul> |
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## 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 (W x D x H):
  - 45.0 x 55.4 x 7.0 cm
- Power Inputs:
  - Input Voltage: 100 - 240 VAC
  - Input Current: 1.0 A
  - Input Frequency: 50 - 60 Hz

## INTELLAMAP ORION™ HIGH-RESOLUTION MAPPING CATHETER

The IntellaMap Orion is a 64-electrode catheter designed to safely measure signals from all cardiac chambers.

- 8.5F (2.83 mm) bi-directional steerability
- 64-electrodes, 8 splines
- Variable deployment, 3 - 22 mm diameter
- Deployment control located on handle – no long sheath required
- Connects to the Signal Station with a single connector



## LOCATION REFERENCE BACK-PATCH

The Location Reference Back-Patch supports catheter localization.

- The Patch is placed on the patient's back. It is connected to the Signal Station through a dedicated cable.

## CARTS (Optional)

Carts may be provided to enhance system storage and transportation.

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

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