Helping you improve patient care.

Welch Allyn Holter Systems
Welch Allyn Holter Systems—
User-friendly, powerful systems that are tailored to meet your needs.

Welch Allyn Holter Systems feature easy-to-use software and recorders that can improve patient compliance due to their lightweight, compact profile. Using Welch Allyn Office Holter software or Welch Allyn Expert Holter software, the systems can be configured with a compact digital recorder featuring 2- or 3-channel recording for a detailed evaluation. Either system provides you with fast, accurate data that helps to streamline your workflow and make your practice more efficient and EMR compatible.
Choose the software system that gives you the information you need.

### Welch Allyn Office Holter Software—PCH-100

**Easy to Use**
- Intuitive menus allow you to easily program your test using the Start Test Wizard

**Detailed Analysis**
- Highlight key areas for further analysis with our unique summary results presentations
- View a live preview display of the ECG for lead quality verification

**Fast**
- Transfer recordings in just minutes—the results can be ready for your immediate review even before your patient leaves the office

**Powerful**
- Format your reports to provide information you need in the format you want
- Adjust clinical parameters to match your practice needs

### Welch Allyn Expert Holter Software—PCH-200

In addition to the features offered in the PCH-100 software, the PCH-200 offers the following:

**Detailed Analysis**
- Review detailed views of results from any entry point: Forms, Arrhythmias, Heart Rate, and FD review modes
- Review and edit down to the beat level from every review mode

**Comprehensive Editing Tools**
- Relabel beats individually or as a form
- Manually mark/label/insert ECG strips as required
- Mark and relabel regions as atrial fib/flutter or artifact
- Adjust clinical limits, leads used and filters
- Control speed and resolution of full-disclosure review with Autopaging function
- Record results as you move through the editing process with the Floating report interpretation window
- Use the Reanalyze function to eliminate a bad channel
- Email Holter reports for review and consult
- Administrative functions with password log-on controls to support your program for HIPAA compliance
Choose either recorder to work with your preferred software system.

Welch Allyn

**HR-100**

Holter recording in an incredibly small package

- 2- or 3-channel recording
- 24-48 hours of recording time
- Pacer detection
- Wireless transfer of patient’s ECG in real time to verify electrode quality and placement

Welch Allyn

**HR-300**

Powerful features for the demanding user

In addition to the features offered in the HR-100, the HR-300 offers the following:

- Display for real-time ECG preview or test programming
- Remote initialization
- Programmable sampling rates of 200, 500 and 1,000 sps
System Software Specifications

Minimum System Requirements

- Windows® 2000, XP
- 300 MHz Pentium processor or faster
- 256 MB RAM
- 40 GB hard drive
- Mouse and keyboard
- Compact Disc reader
- Printer with 300 dpi resolution
- USB 1.1 or 2.0—2 USB ports
- CD writer or equivalent for data backup
- 1024 x 768 screen resolution

Ordering Information

Kits and Systems

100710* PCH-100 Office Holter Software Kit
Includes software, 1 HR-100 Holter recorder, and 7-lead patient cable

100711* PCH-100 Office Holter System
Includes PC, 17” monitor, laser printer, Holter software, 1 HR-100 Holter recorder, and 7-lead patient cable

100712* PCH-200 Expert Holter Software Kit
Includes software, 1 HR-300 Holter recorder, and 7-lead patient cable

100713* PCH-200 Expert Holter System
Includes PC, 17” monitor, laser printer, Holter software, 1 HR-300 Holter recorder, and 7-lead patient cable

*Note: the above models include:

- USB Bluetooth Adapter
- USB SD Card Reader

Software

101510 PCH-100 Standalone Holter Software without Recorder
101511 PCH-100 LAN—3-user Holter Software without Recorder
101512 PCH-200 Standalone Holter Software without Recorder
101513 PCH-200 LAN—3-user Holter Software without Recorder

Accessories

401700 HR-100 Holter Recorder with 5-lead cable
401701 HR-100 Holter Recorder with 7-lead cable
401704 HR-300 Holter Recorder with 7-lead cable
704545 5-lead patient cable, AHA, HR-100
704547 7-lead patient cable, AHA, HR-100
704549 7-lead patient cable, AHA, HR-300
704553 HR-100 Carrying Case
704554 HR-300 Carrying Case
08113-0002 3-channel Holter Hookup Kit
45002-0000 Holter electrodes, 500/case
08240-0000 Disposable Holter pouch
Welch Allyn Holter Systems
Specifications

Holter Recorder Characteristics

<table>
<thead>
<tr>
<th></th>
<th>HR-100</th>
<th>HR-300</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Length</strong></td>
<td>3.8 in (96.5 mm)</td>
<td>4.4 in (112 mm)</td>
</tr>
<tr>
<td><strong>Width</strong></td>
<td>2.2 in (56 mm)</td>
<td>3.1 in (78 mm)</td>
</tr>
<tr>
<td><strong>Height</strong></td>
<td>0.7 in (18 mm)</td>
<td>1.4 in (36 mm)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>7 oz (198 g)</td>
<td>14 oz (397 g)</td>
</tr>
<tr>
<td><strong>Keyboard</strong></td>
<td>Elastomer keypad with navigational and soft menu keys.</td>
<td></td>
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</tbody>
</table>

*with battery (or batteries) and patient cable

Operation

<table>
<thead>
<tr>
<th></th>
<th>HR-100</th>
<th>HR-300</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Source</strong></td>
<td>one size AA (size LR6) alkaline battery</td>
<td>two size AA (size LR6) alkaline batteries</td>
</tr>
<tr>
<td><strong>Sampling Rate</strong></td>
<td>200 sps</td>
<td>200, 500, 1,000 sps</td>
</tr>
<tr>
<td><strong>Recording Period</strong></td>
<td>Maximum 24-48 hours continuous</td>
<td></td>
</tr>
<tr>
<td><strong>Storage Capacity</strong></td>
<td>Minimum 256 MB</td>
<td></td>
</tr>
<tr>
<td><strong>Storage Period</strong></td>
<td>Data remains valid for &gt;5 years or until memory card is initialized</td>
<td></td>
</tr>
<tr>
<td><strong>Battery Life</strong></td>
<td>48 hours</td>
<td></td>
</tr>
<tr>
<td><strong>Pacemaker Detection</strong></td>
<td>ANSI/AAMI EC38-1998</td>
<td></td>
</tr>
<tr>
<td><strong>Effective A/D Resolution</strong></td>
<td>2.5 uV</td>
<td>.5 mV</td>
</tr>
<tr>
<td><strong>Dynamic Range</strong></td>
<td>+/- 300 mV</td>
<td></td>
</tr>
<tr>
<td><strong>Frequency Response</strong></td>
<td>0.05 to 100 Hz</td>
<td>0.05 to 250 Hz</td>
</tr>
</tbody>
</table>

Environmental Specifications

<p>| | |</p>
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>32° to +113° F (0° to 45° C)</td>
</tr>
<tr>
<td><strong>Storage Temperature</strong></td>
<td>-10° to +149° F (-23° to +65° C)</td>
</tr>
<tr>
<td><strong>Operating Humidity</strong></td>
<td>10 to 95% noncondensing</td>
</tr>
<tr>
<td><strong>Storage Humidity</strong></td>
<td>5 to 95% noncondensing</td>
</tr>
<tr>
<td><strong>Operating Altitude</strong></td>
<td>700 to 1060 millibars</td>
</tr>
<tr>
<td><strong>Storage Altitude</strong></td>
<td>700 to 1060 millibars</td>
</tr>
<tr>
<td><strong>Operating Shock</strong></td>
<td>3 in (75 mm) drop to hard surface on any axis</td>
</tr>
<tr>
<td><strong>Storage Shock</strong></td>
<td>31.5 in (0.8 m) drop to hard surface on any axis</td>
</tr>
<tr>
<td><strong>Operating Vibration</strong></td>
<td>0.002 G/Hz from 5 to 350 Hz, ramping to 0.001 G/Hz from 350 to 500 Hz, random vibration spectrum, 10 minutes in each of three orthogonal axes</td>
</tr>
</tbody>
</table>

Protection against ingress of water

Compliant with IEC 60529: Holter recorder—IPX0, Patient cable—IPX0

Device Classification

Meets or exceeds Council Directive 93/42/EEC, MDD, Class IIb

AECG Device Type | Type I

EMC | Class 2B, Type BF

Conforms to Regulatory Standards

International Electromagnetic Commission | CAN/CSA C22.2 No. 601.1-M90

American Advancement of Medical Instrumentation | ANSI/AAMI EC38-1998

Australian Electromagnetic Compatibility | AZ/NZS 3200-1-0

CPT Codes

CPT Coding Options for Holter Monitoring

93230 Electrocardiographic monitoring for 24 hours by continuous original ECG waveform recording and storage without superimposition scanning utilizing a device capable of producing a full miniaturized printout; includes recording, microprocessor-based analysis with report, physician review and interpretation

93231 Recording (includes hook-up, recording, and disconnection)

93232 Microprocessor-based analysis with report

93233 Physician review and interpretation

A word about the coding information contained in this brochure.

Listed within this brochure are references to codes from the Current Procedural Terminology, Fourth Edition (CPT®). Please note that the coding information contained here is neither conclusive nor does it ensure that you will be successful in obtaining coverage and/or reimbursement from government and private payers. Depending on circumstances that will vary from patient encounter to patient encounter, separate reimbursement may or may not be allowed for use of a Welch Allyn product used during a specific procedure or service. Use of the product may be included in the reimbursement for Evaluation and Management services provided by the physician. Please check with the specific payer to confirm whether or not the use of a separate code is acceptable. Welch Allyn does not assume any responsibility for the decisions made by payers regarding payment for procedures involving our devices when the coding information suggested in this brochure is used. Please refer to this page for a full listing of the codes and their accompanying descriptors before determining if the code is suitable for submission on a claim to a payer.

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