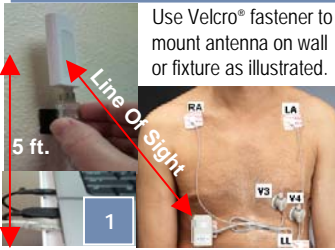
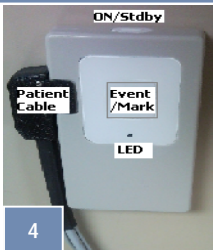


PREPARE THE AM (AMBULATORY MONITORING) SYSTEM FOR USE



Use Velcro® fastener to mount antenna on wall or fixture as illustrated.



LED Flash Patterns

- ↑ 90-100% Battery Charge
- ↓ Below 90% Battery Charge
- Double Flash = Recording Starts
- Fault, No Storage Available

Install the wireless antenna on the PC's USB extension cable. Mount the antenna (LED Out) 5-6' high to maintain line of sight with AM device.

Use thumb to slide the battery door away from snap. Insert a blank 2Gb data card. Mate fresh battery with contacts and close battery door.

Mate depleted battery and charger contacts. Battery is charging when LED is on. Keep charger greater than 1.5 meters from patient care areas.

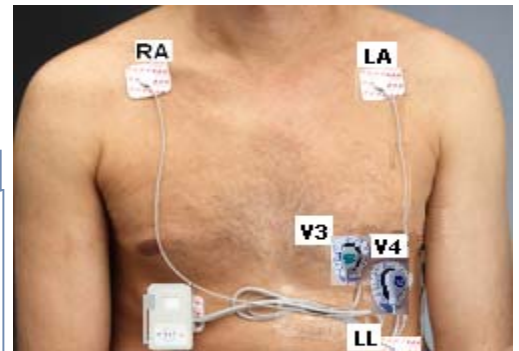
Prior to turning on the AM, check the battery charge level by observing the LED while pressing the Event/Mark button. **After recording starts, double flash indicates fault, single orange or green LED flashing 1/sec is normal operation.**

PREPARE THE PATIENT

- Strive for best possible contact between skin, electrodes/sensors
- Use a gauze pad to remove oils & perspiration for dry, pink skin
- If chest hair is present in sensor/electrode area, shave as necessary

APPLY SENSORS AND ELECTRODES

- RA – Right clavicle (snap electrode)
- LA – Left clavicle (snap electrode)
- LL – Left lower abdomen near hip (above belt line)
- V4 – AUDICOR sensor at Fifth intercostal space left of midclavicular line
- V3 – AUDICOR sensor midway between left sternal border and V4

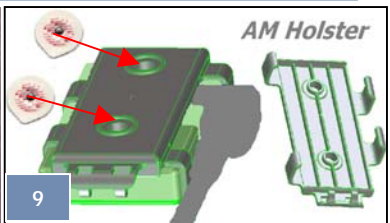


Ambulatory Monitoring System Lead Placement

The AM device should be placed vertically on the right upper abdomen below the chest wall. Preview and resolve waveform quality issues before affixing the AM to the patient. **Train the patient to reconnect leads, adapters and the AM holster when necessary.**

CAUTION: Remove patient cable, AUDICOR sensors, ECG electrodes and the AM device from the patient prior to resuscitation. **The AM/Holter device is not defibrillator protected.**

APPLICATION



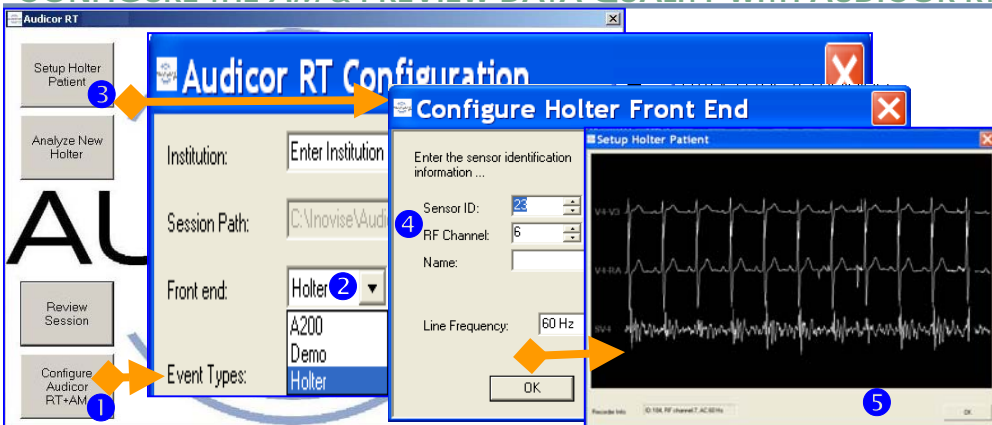
Snap / press the sound connector securely into the AUDICOR® sensor collar prior to application.

Remove the sensor release liner as illustrated. With the cable exiting towards the abdomen, apply Sensors to V3 & V4 positions with moderate pressure and smooth the entire pad to ensure sufficient, skin adhesion.

Attach the remaining leads to the correct ECG electrode positions as shown above.

Slide the AM recording device into the holster. Apply two ECG electrodes to the back of the holster, accounting for lead length, apply assembly to the abdomen as shown above.

CONFIGURE THE AM & PREVIEW DATA QUALITY WITH AUDICOR RT+AM

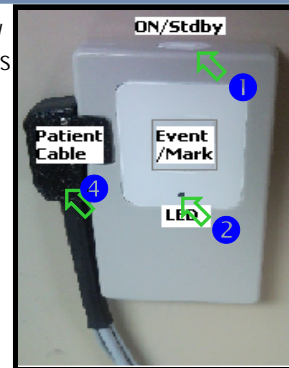


- 1 On the PC, start the Audicor RT application. Select **Configure Audicor RT+AM**.
- 2 Ensure **Holter** is selected from **Front end** drop down box and click **OK**.
- 3 Click **Setup Holter Patient**.
- 4 Enter **RF Channel & ID** from AM label or select from device list. Select line frequency and click **OK** to preview waveform. Tap Sensor to verify artifact from tap is observed on preview.
- 5 Enter **patient ID** and Click **Start Recording** to end preview and initiate the session.

NOTE: RT Wireless Preview can be defeated by other wireless devices in the area or by being too far from the antenna. If preview is not working, move AM closer to the antenna while maintaining line of site, reset the device by removing the battery for 30 seconds and try again. If unsuccessful, follow the steps below to manually start the recording session without confirming signal quality.

STARTING & STOPPING THE AM RECORDING SESSION WITHOUT AUDICOR RT

- 1 Press the **ON/STDBY** button located on the top of the Ambulatory Monitor to start a recording session.
- 2 Check to ensure the **LED** is now flashing once per second. (Double flash indicates full or no storage card installed)
- 3 Note the start date and time in 24 hr format. This information is requested by Audicor RT when data transfer begins.
- 4 To end data acquisition, press the **ON/STDBY** button until the LED stops flashing or briefly open the battery cover until you see the LED stop flashing. Remember to slide the battery cover closed to secure the battery. (Delete Note)

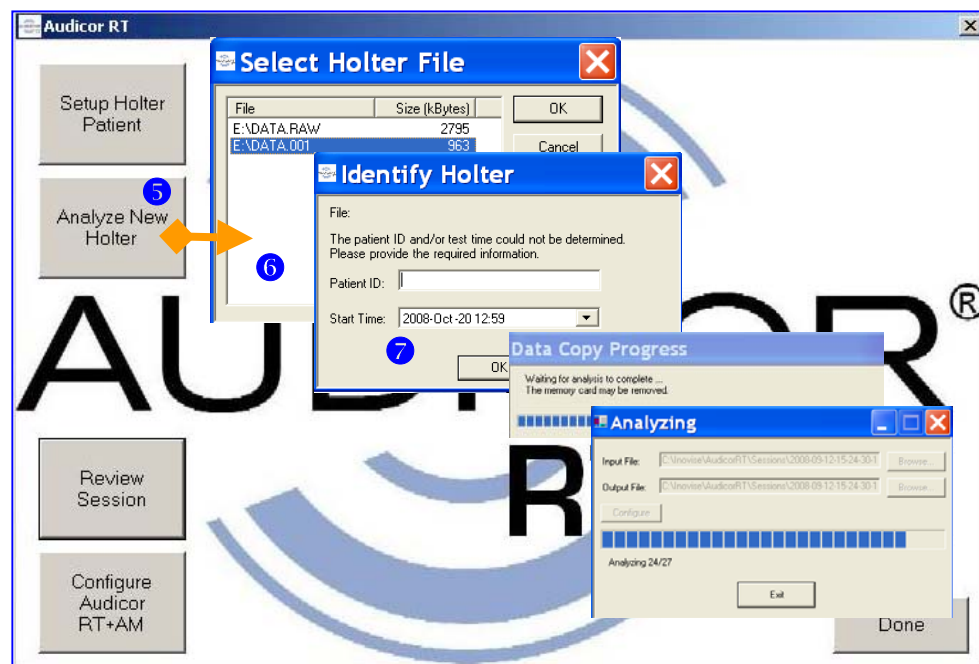


TRANSFERRING THE HOLTER STORAGE CARD TO THE PC

- 1 Disconnect the patient cable and use your thumb to slide the battery cover off. Lift the battery out of the case.
- 2 Gently push the data card into the memory card socket to release it and then pull with your thumbnail to disengage.
- 3 Insert the data storage card into the card adapter oriented with contacts down as illustrated below.
- 4 Insert the card reader into the PC SD Card Slot. **NOTE:** Cancel Microsoft Window's "Auto Play" dialog if it appears after Inserting the data card into the PC.



IMPORTING AND ANALYZING AMBULATORY MONITORING DATA



Main Menu, Figure: 1

- 5 Click **Analyze New Holter** button to import data files from the data card.
 - 6 If multiple files exist click to **highlight** the file you wish to analyze then click **OK**.
 - 7 If prompted to Identify the selected Holter file: Enter **Patient ID** and recording **Start Time** then click **OK**.
- NOTE:** Repeat steps 5-6 to analyze remaining files. Files not analyzed are not removed from the memory card and must be manually saved to the PC or deleted prior to the next use of the card.
- 8 After analysis has completed the "Review Procedure" Window will open automatically. To review and manage Holter reports see page 3 of this Quick Reference Guide.
 - 9 To prevent the loss or corruption of valuable data, before removing the USB/data card adapter from the PC, use Microsoft "Safely Remove Hardware" feature.

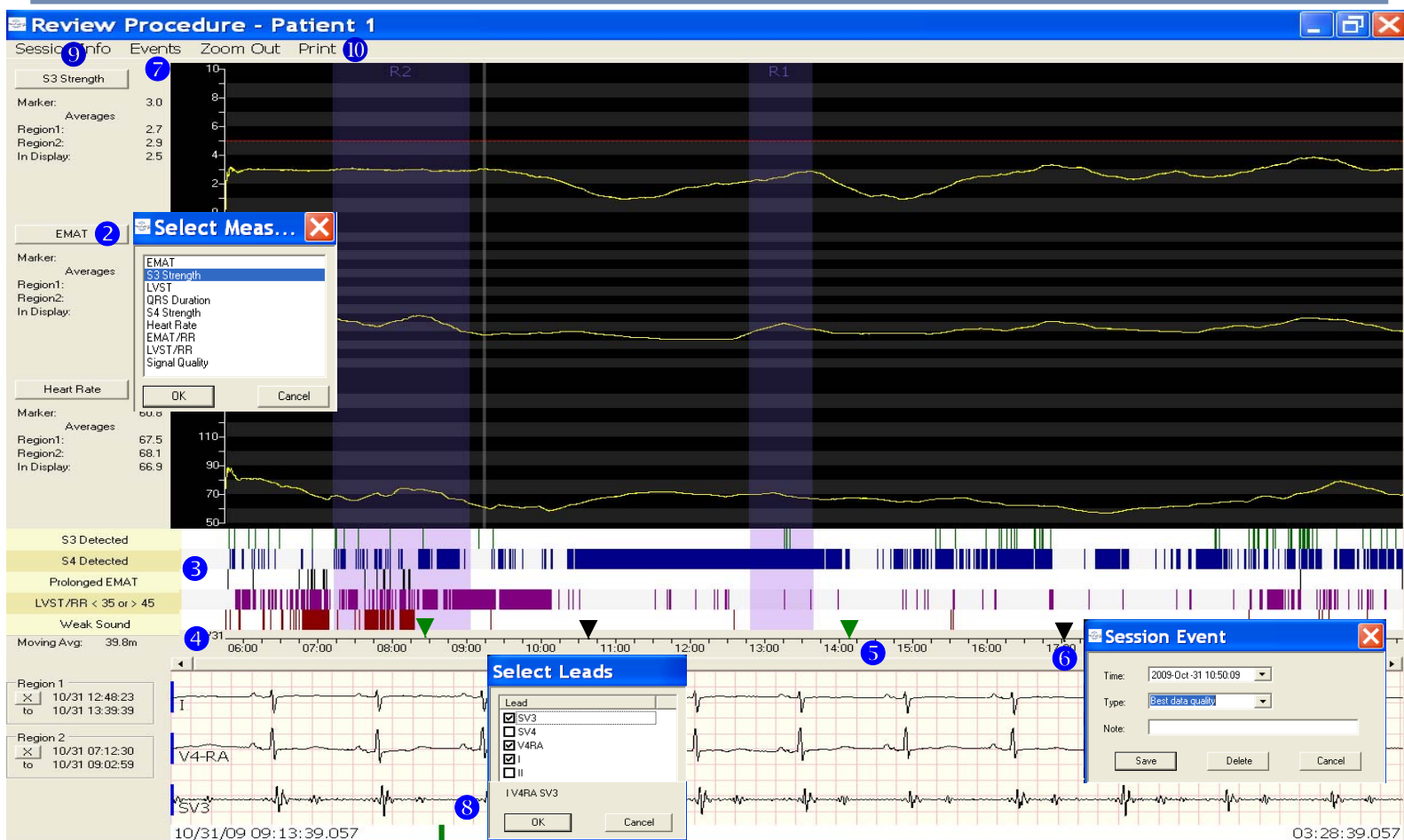


NOTE: If there are problems with the data storage card, save data and replace the card. Reformatting the card may also resolve issues, see QRG Addendum (40412) for instructions.

CLEANING AND INSPECTING HOLTER SYSTEM

- 1 Wipe the Holter and the patient cable with a warm moist cloth that has been sprayed with a mild detergent and or disinfectant (10% bleach in water). Cloth should be moist but not wet to avoid fluids from wicking into sensitive electromechanical regions of the recorder and accessories. Remove cleaning fluids/disinfectant residue with clean warm moist cloth. Allow the device to dry completely before returning it to service.
- 2 Do not immerse the patient cable or recording device in fluids when cleaning or at any time. Do not use harsh chemicals to clean this system and ensure the cleaning is done with a moist not a wet cloth. Replace worn, broken or damaged cables or system components that you suspect are not working and cannot be properly cleaned.
- 3 Keep liquids and cleaners away from connectors and patient cable adapter contacts. Unless debris or contaminants are visible, do not attempt to clean metal connector regions as this may corrode or otherwise compromise the connectors.

REVIEW AND MANAGEMENT OF AUDICOR REPORTS



Review Procedure Screen, Figure: 2

1 To review a session: Select the **Review Session** button on the main menu (Fig. 1) and **highlight** the desired session in the Select Session screen then press **OK**. OR Upon completion of the **Analyze New Holter** page 2 step 5 above, the Review Procedure screen will be displayed.

2 To change the trend parameters: Select the button for each of three default trend graphs displayed to view the pick lists and change the trend parameter: **S3 Strength**, **EMAT** and **Heart Rate** are default settings.

3 Pre-defined Events: Graphs showing the incidence of five pre-defined events, such as S3 Detected and S4 Detected, are displayed. If the pre-defined event was detected, it is shown as a color bar in the event graphs.

4 Time Line: A horizontal bar shows the time line for the data displayed: the starting date of the data displayed as well as the time in 24-hour format.

5 Patient created events are visible on the horizontal time bar as green triangles. A green triangle will be present for each time the patient pressed the Event/Mark button on the AM device during the recording session. A **Scroll Bar** is positioned below the time line to allow the user to navigate to the upper and lower extent of the data window.

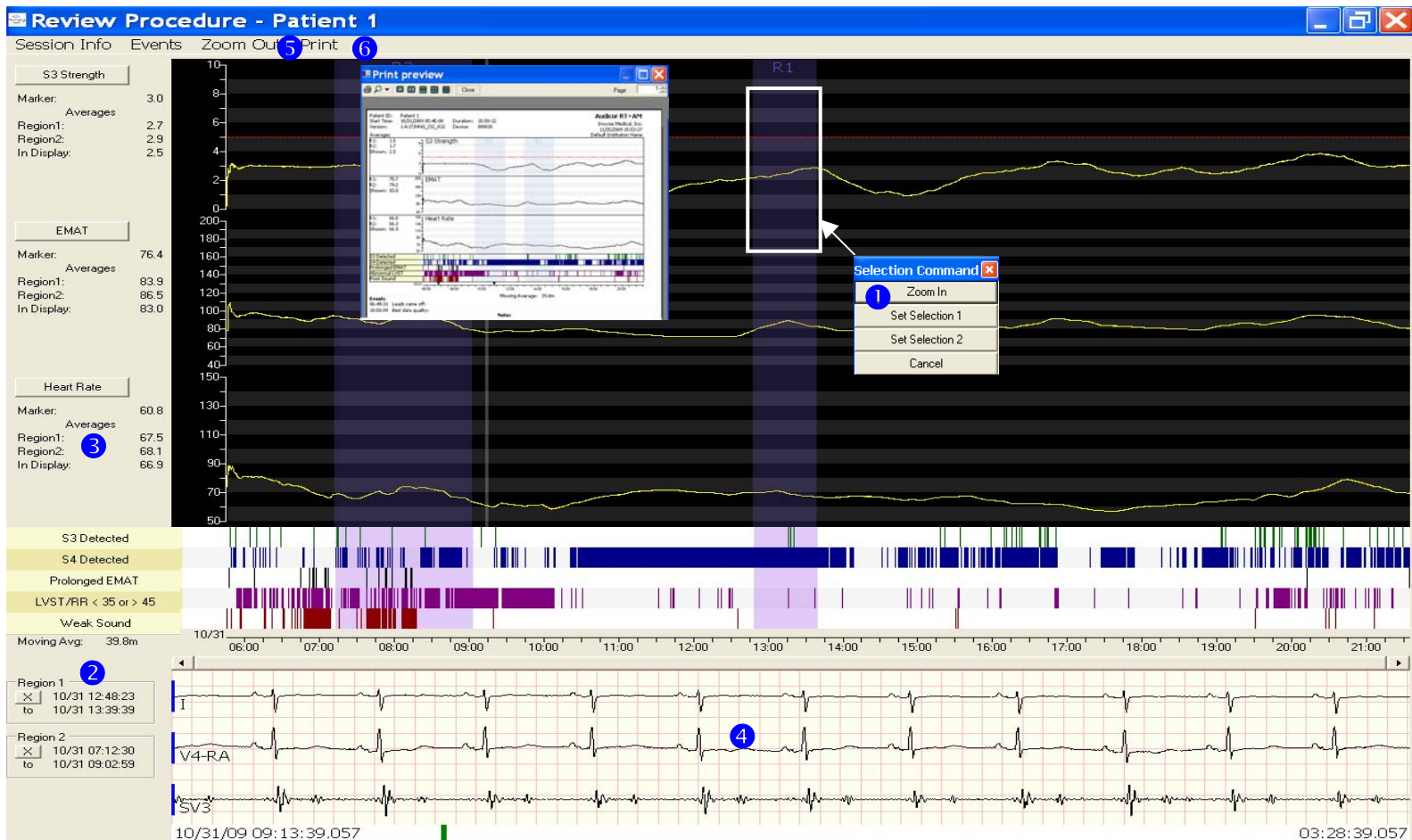
6 User created events are black triangles. Click on any triangle and a dialog box will provide options for the User to update or add notes, **save, edit** or **delete** the event.

7 To add an event, the user clicks on the **Events** menu item just below the Review Procedures Title Bar and then on the **New** button.

8 Selecting Heart Sound and ECG waveform data to display: Right clicking inside this data field will allow the user to select the waveform data to display. Dragging the green bar / "Marker" to the right or left will slide the data window within the recording session. A second click of the mouse will fix the Marker and the corresponding waveforms within the window. Averaged tabular results for this period are displayed for selected parameters under the Marker label located to the left of the trend display.

9 To update the patient information or add free form notes click on the **Session Info** menu just below the title bar.

10 To print a report click on the **Print** menu just below the **Review Procedure** Title bar.



Advanced Tools - Review Procedure Screen, Figure: 3

- 1 **Trend Compare and Zoom Tools:** To compare two separate regions on the graph or zoom in on an interesting area, click and drag the mouse creating a box in the trends or events area that defines the area of interest. A window will open providing options to **Zoom In**, **Set Selection 1** or **Set Selection 2**. Select the appropriate option and repeat this step for the second data area to compare with the initial selection if that is your desire.
- 2 The regions selected to compare will be highlighted in blue and defined in the boxes to the left of the ECG and heart sounds waveform data. Date and time stamps represent the earliest and latest extent of each region selected for comparison.
- 3 The tabular data for the selected regions being compared is averaged and displayed to the left of the trends along with the display averages for the respective parameter and the Marker data results.
- 4 **To increase or decrease the size of the ECG and heart sound data**, left click the mouse within the waveform area and drag the mouse up and down to adjust and then release to fix size. The period of time displayed in the waveform will also change relative to the waveform gain.
- 5 If you have zoomed in to see the detailed measurements of smaller time sample, you will notice that the scroll bar will not fill the entire session period. **To once again view the entire session**, click on the "Zoom Out" button just below the Blue **Review Procedure** Banner.
- 6 **To print a report**, select the **Print** menu button below the Blue **Review Procedures** Banner. A print preview window will open to allow you to examine the report format and content. Select the printer icon to print the report.



See Quick Reference Guide Addendum PN 40212 for additional troubleshooting and important warnings and cautions information.



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The Audicor RT with AM is assembled in the USA by Inovise Medical, Inc. The Audicor RT application software is manufactured in the USA by Inovise Medical, Inc. The Audicor AM/Holter device with accessories is manufactured in Taiwan by YI-Phone Inc. The HP notebook PC is a product of China.