

### Set-Up Procedure

- Attach ECG cable, SPO2 cable, Blood Pressure Hose, Temperature cable, and other accessories (if applicable) to right-hand side of the Welch Allyn 1500 Patient Monitor®.
- Ensure proper lead preparation. Attach lead wires to the electrodes before applying them to the patient. Apply the electrodes to the patient in the proper locations.
- Turn on the device by pressing the power button located on the front/right-hand side of the device.
- Device shows up to six waveforms at once (etCO2, IBP, and ST must all be turned on for six waveforms)
  - To Change Waveforms
    - Press the **Setup** button.
    - Select **Waveforms**
    - The waveforms 1 through 6 are configured through the pull-down menus.
    - Set the amplitude for each waveform according to preference and signal strength. Set the sweep speed according to preference and patient.
    - Select **OK** to save.

**NOTE:** The RESP and CO2 sweep speed values are not configurable, and only ECG leads are available for waveform 1.

- Ensure the monitor is in the appropriate Patient Mode: The patient mode is displayed in the lower front/ right hand corner of the device. To change patient mode:
  - Press the **Setup** Button.
  - Select **Patient Mode**.
  - Highlight Adult, Pediatric, or Neonate and press trim knob.
  - Select **OK** to save.

**NOTE:** Neonatal: Birth through 28 days, Pediatric: 29 days through 12 years, Adult: 13 years and older.

### To Admit A Patient Hard-Wired

- Ensure that you connect the proper monitor network cable to the proper wall jack. There are two hardwired site labels: a blue one used for the Propaq monitor serial cables, and a green one used for the Ethernet devices. Once the Ethernet cable is connected to the wall jack, connect the other end of the Ethernet cable into the back of the device.
- When the monitor completes the connection to Acuity, the network connection icon will appear in the lower right hand corner of the screen. Appears when there is a loss of connection.
- The patient data can be changed at the monitor or at Acuity. When confirmed the patient data is synchronized for both the monitor and Acuity. When Acuity is enabled but not connected, the patient information menu option is not given. **NOTE:** When the device is connected to Acuity, the Arrhythmia/ST menus are not available on the device as this is done by Acuity.
- Once connected, the room number is set by the system bed file and cannot be changed at the device or Acuity.

### 5. Standby, Discontinue Monitoring, Discharge

- When Standby is selected, the user has the option to select Standby, Discontinue Monitoring, or Discharge.
  - For Confirmed Patients
    - Standby: Pressing “Standby” the device will go into a standby mode. The monitor will read “Standby Mode, Press any key to resume monitoring”. The waveform at Acuity will go into a Blue Patient Disconnected State.
    - Returning from Standby:
      - The user will be prompted to confirm the same patient.
      - If no is selected, the patient data is deleted.
  - For Unconfirmed Patients
    - You will need to acknowledge that you will lose data if you decide not to confirm the patient before entering into Standby or Discontinue monitoring.
  - Discontinue Monitoring: When you press “discontinue monitoring” at the 1500, the waveform is removed at Acuity and the patient is no longer monitored. There is no longer an established connection between the device and Acuity.
  - Discharge: When you press “discharge” at the 1500, the waveform is removed at Acuity, and the patient shows discharged in the patient list. There is no longer an established connection between the device and Acuity.
- Discharge a patient at Acuity
    - Click on the Patient List Icon
    - Select patient to be discharged by highlighting name
    - Click **Discharge**.
    - Click **Discharge** again after verifying patient to be discharged.

**NOTE:** The system does not reestablish a connection until you press resume. Then the device takes the user through the initial power-on steps.

**NOTE:** This is a hardwired device. The patient must be discontinued from monitoring before you can discharge the patient from the Patient List at Acuity. Also as this is a hardwired device, there is no end-tele at Acuity for this device.

**NOTE:** The monitor sends a 12-lead resting ECG automatically to Acuity when taken.

### Function Buttons

The function button panel is located on the right/front side of the device. Pressing the following buttons will produce the following actions.

- Print: Printout of three waveforms and all parameters. The waveforms and print settings are defined in the recorder menu of the Setup menu.
- Alarm silence: Silence Icon of an audible alarm or confirmation of displayed messages. The silence icon time is defined in the Setup/Administrator menu.
- NIBP measurement interval: Interval setup for non-invasive blood pressure measurement or switch-off of the interval measurement.

4. NIBP measurement: Start or stop of the non-invasive blood pressure measurement.

5. Standby: In standby mode patient monitoring is interrupted and the screen is blank. Monitoring is resumed when any button is pressed. **NOTE:** When the monitor is connected to Acuity, different options are given.

6. Setup: Display of the Setup menu. The required menu item can be selected by turning the trim knob and pressing in on the knob.

7. Trend: Displays trend data and options.

8. Home: Pressing this button closes opened dialogues and returns to the monitoring screen. Any settings that were changed in the opened dialogue screen are saved. Pressing this button is the same as selecting OK on the opened dialogue screen.

9. ON/OFF: Press to switch the monitor on. Press and hold for 4 seconds to switch the monitor off. The LEDs below this button indicate: Left LED - A/C power is connected to the monitor. Right LED - A/C connected to the monitor and internal battery being charged.

10. Trim knob: The trim knob is used for navigation, value selection and value change.

### Changing Individual Parameter Settings

- Each parameter setting can be changed individually.
- The parameters will appear along the bottom and right side of the main screen.
- To change the parameter settings.
  - Select the **Parameter** measurement field using the trim knob. A white frame appears around the measurement field.
  - Press the **trim knob** to display the menu.
  - Scroll down to the desired parameter and press the trim knob to make changes.

### Alarms: Silence/Reset, Adjust Limits And Tones

- Silencing an alarm
  - Alarm Limit
    - Press the Alarm Silence button.
    - The audible alarm is silenced for 1, 1.5 or 2 minutes.
    - The silence time is defined in **Setup > Setup Administrator> Alarms > Alarm Silence Time**.
  - Technical Alarm
    - A technical alarm can be acknowledged by pressing the **Alarm Silence** button. This alarm is not reactivated.
  - Turning off individual parameter alarms
    - Individual alarms can be inhibited via the **Alarms** menu or in any parameter measurement field by using the **trim knob** to select a parameter (a white frame

- appears around the selected field) and pressing the trim knob to display the menu for that parameter.
- Switch off individual limits by selecting the limit setting and rotating the trim knob to the maximum limit until off is selected.
- The alarm off symbol is displayed in the respective measurement field.
- To turn off from the Alarms menu: Press the **Setup** button, Select **Alarms**, use the trim knob to scroll through the alarm settings and select the limits and then press **OK**.

**NOTE:** All alarm limits are reset to the default system settings after confirming a new patient, if they have not been stored as user defaults.

**NOTE:** The Alarm settings for arrhythmia are detailed in the Arrhythmia menu option in the setup menu.

### To Take A Blood Pressure

- Select appropriate cuff size.
- Apply blood pressure cuff to patient with Artery Index Marker over the patient's artery.
- Press Start/Stop NIBP on front right of the Welch Allyn 1500 Patient Monitor®.

**NOTE:** If taking a NIBP on a neonate patient, you must switch to a neonate hose.

### To Set Interval Blood Pressures

- Automatic blood pressure measurement
  - Press the **NIBP measurement interval button**.
  - Select the interval between 3 minutes and 60 minutes, and confirm your selection with **OK**.
  - The message **NIBP interval – xx minutes** is displayed.
  - The first measurement is started after the interval is selected or can immediately be initiated by pressing the **NIBP start/stop** button.

**NOTE:** After exiting the standby mode, ensure that the NIBP intervals are re-armed by manually starting a NIBP measurement.

**NOTE:** These settings are reset when the monitor is switched off and automatic measurement must again be defined when the monitor is switched on.

### To Obtain A Resting 12-Lead ECG

- 12 Lead Resting ECG Option
  - One resting ECG can be stored at a time. The resting ECG cannot be viewed on the monitor but can be exported to Acuity and can be printed on the internal printer at any time.
  - Taking a resting ECG
    - Press the **Setup** button.
    - Select **12-lead ECG**. The following screen will display:

