



## SAFETY

### Safety checks

- General overview of system integrity, system is visually clean, all required accessories are available and suitable for patient group
- Check integrity of accessories, ensure mains lead is plugged in and that mains power is on

### Disabling the touchscreen

- Press and hold the **Main Menu** quick key for approximately 3 seconds. A padlock symbol  displays within the main menu quick key if the touchscreen is disabled
- When the touchscreen is locked, powering off the monitor and restarting it will automatically unlock the touchscreen
- To re-enable the touchscreen, press and hold the **Main Menu** quick key again

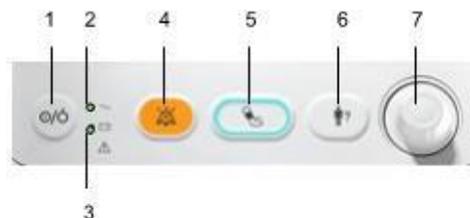
### Cleaning

- Adhere to the **Operators Manual** for advice on cleaning agents
- Follow hospital policy, but with an awareness that agents utilised by the hospital may cause damage to the monitor over time

**Please Note:** Some items that connect to the system are single patient use

## BASIC OPERATION

### Function of the LED's, hard keys and navigation dial



1. **On / Off Key**
2. **AC power LED** Illuminates when connected to mains power
3. **Battery LED** Illuminates when battery is installed and connected to mains power  
Flashes when disconnected from mains power
4. **Alarm Reset Key** Press to silence current alarm conditions  
Press and hold for more than 2 seconds to pause or restore all alarms
5. **NIBP Key** Press to start or stop NIBP measurements
6. **Admit Patient key** Press to admit a new patient  
Press to return to main screen
7. **Rotary Knob** Rotate the knob clockwise or anti- clockwise and press to make selection

These guidelines do **NOT** replace the instructions for use and all users should refer to the appropriate **Operator's Manual** for detailed instructions.  
The Illustrations may not necessarily reflect the setup or data displayed on your device.

### Enter standby mode

- When no parameters are being measured, you can press the power switch  to enter Standby mode
- A warning message will appear. Select Yes to enter the Standby mode
- When the monitor is powered by a battery, it will automatically enter the Standby mode when the following conditions are satisfied:
  - No key operation within 10 minutes
  - No unacknowledged alarms

### Exit standby mode

- Press any hard key on the front panel
- Rotate the navigation dial / rotary knob
- Connect SpO<sub>2</sub> sensor, and let the monitor receive SpO<sub>2</sub> data for more than 5 seconds

**Please Note:** In standby mode, monitoring for the current patient ceases, but the monitor is still active. If the monitor enters and then exits standby mode during patient monitoring, the patient needs to be readmitted.

## PATIENT ADMISSION & DISCHARGE

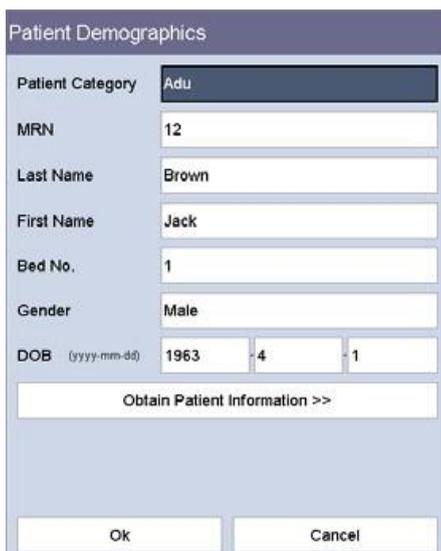
### Admitting a patient

- Select the **Admit Patient**  hard key to access the **Patient Demographics** menu
- Complete the patient details → select **OK**

If the monitor is connected to ADT server, when you input patient MRN, the monitor performs as follows:

- If a matching patient MRN is found in the ADT server, the monitor will automatically populate the **Patient Demographics** fields according to the patient data stored in the ADT server
- If no matching patient MRN is found in the ADT server, the following message will display

**'Failed to obtain patient information'**



Patient Demographics	
Patient Category	Adu
MRN	12
Last Name	Brown
First Name	Jack
Bed No.	1
Gender	Male
DOB (yyyy-mm-dd)	1963 - 4 - 1
Obtain Patient Information >>	
<div style="display: flex; justify-content: space-around; width: 100%;"> <span>Ok</span> <span>Cancel</span> </div>	

- The patient will be admitted to the monitor, patient name and MRN (if completed) will be displayed in the upper left hand corner of the monitoring screen. Depending on settings, the department configuration will be automatically loaded.
- Ensure the correct Patient Category ADU, PED or NEO is selected
- Press Ok when complete

## SpO<sub>2</sub>

### Selection and application of the SpO<sub>2</sub> Sensor

- Different sensors are available for finger and earlobe placement, and as reusable / single patient use
- Sensor selection should depend on the weight range of the patient (see sensor packaging)
- The finger sensor should be fitted with the finger diagram uppermost
- Incorrect sensor placement can result in less than optimum measurements

### Perfusion Index (PI)

PI 0.2

- This is the numerical value for the pulsatile portion of the measured signal caused by arterial pulsation
- PI is an indicator of pulsatile strength, and is also used to assess the quality of an SpO<sub>2</sub> measurement
  - Above 1 is optimal
  - Between 0.3 and 1 is acceptable
  - Below 0.3 indicates low perfusionReposition the SpO<sub>2</sub> sensor or find a better sensor location. If low perfusion persists, choose another method of measuring oxygen saturation if possible

## NIBP

### Selection and application of the NIBP Cuff

- Select an appropriately sized cuff by referring to the limb circumference marked on the cuff
- Apply the cuff to the patient's upper arm or leg, ensuring the  marking on the cuff matches the artery location
- The cuff should fit snugly, but with enough room for two fingers to be placed between the cuff and the patient's limb (on adults) and loosely on neonates with little or no air present within the cuff
- Do not use NIBP cuff on limb with an Intravenous Infusion or arterial catheter in place
- The middle of the NIBP cuff should be in line with the right atrium of the heart
- An incorrect cuff size may give inaccurate readings

### Starting & Stopping NIBP measurements

- Start and stop NIBP measurement by selecting the **NIBP Start/Stop**  hard key
- Select **NIBP Setup** menu → NIBP interval time → **Start NIBP** key to start the measurement interval

## CO<sub>2</sub>

### CO<sub>2</sub> measure & standby modes



- Select the CO<sub>2</sub> numeric area or waveform area to enter the CO<sub>2</sub> → **Setup** → Set **Operating Mode** to **Measure / Standby**

## Entering the NEWS 2 screen

You can calculate a score in the scoring screen or in the score tile

- Select the **Scoring** quick key to enter the scoring screen

## Calculating a Score

To calculate a score, follow this procedure:

- Select the default scoring or load a scoring for the applicable patient category
- Obtain the value of all parameters, and then total score will be automatically calculated
- If necessary, record the scoring data



1. Icon for manual input manually input the parameter
2. Score for single parameter
3. Icon for real-time monitoring The parameter value is from the monitor
4. Recommended clinical response
5. The latest scoring result

## Obtaining total Scoring

The total score will automatically be calculated when each required parameter tile has a value

To calculate a score, follow this procedure:

- Start monitoring parameters. Their values are automatically obtained and displayed
- Manually input the values for the parameters that are not monitored
- For **NEWS2**, set the SpO2 Scale
  - **Scale 1:** for patients without hypercapnic respiratory failure
  - **Scale 2:** for patients with a prescribed oxygen saturation requirement of 88–92% (for example, in patients with hypercapnic respiratory failure).
- Select **Save** the results data

**Please Note:** The scores and clinical responses in the clinical scores are for reference and cannot be used alone for diagnostic interpretation

# REVIEWING PATIENT DATA

## Reviewing patient data

Select Review quick key in order to review the trends

In **Monitor Mode**, you can view:

- Spot check trends
- Continuous trends
- Graphic trends
- Scoring review

Select MRN, Name or Visit to select the desired patient

Select Interval to set the interval for the data to be displayed

Select the page key to turn the page

In **Spot Check** mode you can review the **Spot Check Trends** and **Score Review**

Parameter value trigger:

- High level alarm has a red background
- Medium or Low level alarm has a yellow background

**Data Status**

MRN	Time	SpO2	PR	NIBP	Temp	CO2(Et /Fi)	RR
Unknown	2017-08-08 08:57:53	100	80	--	37.6	36/2	20
Unknown	2017-08-08 08:57:48	100	80	--	37.6	36/2	20
Unknown	2017-08-08 08:57:43	100	80	--	37.6	36/2	20

Data Status

- The required patient demographics that is not fully filled display as
- Patient data successfully sent to the EMR displays as
- Patient data that failed to transmit to the EMR displays as
- Patient data that is cached on the device but not transmitted displays as

## ALARMS

### Setting alarm limits

- Select **Main Menu** quick key → **Alarm Setup** → adjust alarm limit →  to confirm

### Alarm Reset

Press the **Alarm Reset**  hard key



When alarms are reset, the following rules occur:

- The alarm sound is silenced
- A ✓ appears before the alarm message, indicating that the alarm is acknowledged
- The alarm parameter numeric and alarm limit flash

### Alarm Pause

Press and hold the **Alarm Reset**  hard key for more than 2 seconds



When alarms are paused, the following rules occur:

- No physiological alarm will be presented
- For technical alarms, alarm sounds are paused, but alarm lamps and alarm messages remain presented
- The remaining alarm pause time is displayed in the physiological alarm information area
- The alarm pause symbol is displayed in the system information area

**Please Note:** The default alarm pause time is 2 minutes. When the alarm pause time expires, or the low battery alarm occurs, the alarm paused status is automatically deactivated. You can also cancel the alarm paused status by pressing and holding the  hard key for more than 2 seconds.

## GENERAL OPERATION

### Loading configurations

Changes can be made to some settings during operation. However, these changes or the pre-selected configuration may not be appropriate for the newly admitted patient. The monitor allows you to load a specific configuration

To load a configuration, follow this procedure:

- Select the Menu quick key → **Load Configuration** → Select the desired configuration → **Load** → **OK**