

# Fukuda

## Vital Signs Monitor

### Quick Reference Guide



**Note:** The Vital Signs Monitor Quick Reference Guide is not intended as a replacement to the Operating Instructions. Prior to operating the equipment, the user must be familiar with the Operating Instructions Manual contents. This document is a guideline only to be used as an aid to comprehensive Inservice Training.

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## KEYS

### Hard Keys

	<b>Power ON/OFF Switch</b> <ul style="list-style-type: none"> <li>Press this key to turn the monitor on.</li> <li>Press this key to enter/exit Standby mode.</li> <li>Press and hold this key for more than 2 seconds to turn the monitor off.</li> </ul>
	<b>Alarm Reset Key</b> <ul style="list-style-type: none"> <li>Press this key to turn off the present alarm sounds.</li> <li>Press and hold this key for more than 2 seconds to pause or restore alarms.</li> </ul>
	<b>NIBP Start/Stop Key</b> <ul style="list-style-type: none"> <li>Press to start or stop NIBP measurements.</li> </ul>
	<b>Admit Patient Key</b> <ul style="list-style-type: none"> <li>Press this key to admit a new patient.</li> <li>Press this key again to return to the main screen.</li> </ul>
	<b>Knob</b> <ul style="list-style-type: none"> <li>Rotate the knob to scroll through parameters or menus.</li> <li>Press the knob to access a menu or select an item.</li> </ul>

### Menu Quick Keys

<b>Main</b>	<ul style="list-style-type: none"> <li>Accesses the <b>Main</b> screen , or quickly returns to the main display.</li> </ul>
<b>Scoring</b>	<ul style="list-style-type: none"> <li>Accesses the <b>Scoring</b> screen to evaluate a patient's condition.</li> </ul>
<b>Patient List</b>	<ul style="list-style-type: none"> <li>Accesses the <b>Local Patient List</b> or <b>ADT Database</b> pages to admit a patient and enter demographics.</li> </ul>
<b>Review</b>	<ul style="list-style-type: none"> <li>Views and prints historical trends data.</li> </ul>
<b>Save</b>	<ul style="list-style-type: none"> <li>Accesses the <b>Results</b> screen to manually save patient data.</li> </ul>

## **PATIENT SETUP\***

### **Admit Patient And Enter Demographics (Barcode Scanner)**

The Patient Setup menu allows the clinician to admit a patient through a barcode scanner.

To admit a patient through linear barcode scanner on the Vital Signs Monitor:

- a. Connect the barcode scanner to the USB connector on the monitor.
- b. Aim the barcode scanner at the barcode.
- c. Select **Ok** in **Patient Demographics** menu.

To admit a patient through two-dimension barcode scanner on the Vital Signs Monitor:



- a. Connect the barcode scanner to the USB connector on the monitor.
- b. Aim the scanner at the clinician barcode and press the scan button at the barcode scanner.
- c. Aim the scanner at the patient barcode and press the scan button on the barcode scanner.
- d. Select **Ok** in **Patient Demographics** menu.

**NOTE:** The monitor must be configured to use the two-dimension format in order to work this way.

### **Admit Patient And Enter Demographics (Manual Entry)**

The Patient Setup menu allows the clinician to admit a patient and enter patient demographics. Admitting also restores default (preconfigured) settings and clears the previous patient's information.



To manually admit a patient and enter demographics on the Vital Signs Monitor:

- a. Press the  hardkey to access the **Patient Demographics** menu.
- b. Select patient demographic field (Last Name, First Name, etc.).
- c. Enter patient's information using onscreen keyboard.
- d. Select  to accept the information.
- e. Select **Ok** to return to main display.

## Admit Patient and Enter Demographics (Local Patient List and ADT Database)

The Patient Setup menu allows the clinician to enter patient demographics from the local patient list or the ADT database (hospital's patient database).



To enter demographics from the local patient list on the Vital Signs Monitor:

- a. Select the **Patient List** quick key to access the **Local Patient List** tab.
- b. Select the page key (for example  1/1 ), and then use the up or down arrow beside this key to turn the page.
- c. Select **Scroll**, use the up or down arrow beside this key to highlight the desired patient.
- d. Select **Admit** to access the **Patient Demographics** menu.
- e. If necessary, you can modify patient's information using the onscreen keyboard.
- f. Select **Ok** to return to main display.

To enter demographics from the ADT database on the Vital Signs Monitor:

- a. Select the **Patient List** quick key, and select the **ADT Database** tab.
- b. Search a patient.
  - Input **Department** name, and then the system will search the patient within the department.
  - Input **MRN**, and then the system will search the patient according to the medical record number.
  - Input **Last Name** and/or **First Name**, and then the system will search the patient upon the name.

Or

- b. Select the page key (for example  1/1 ), and then use the up or down arrow beside this key to turn the page.
- c. Select **Scroll**, use the up or down arrow beside this key to highlight the desired patient.
- d. Select **Admit** to access the **Patient Demographics** menu.
- e. If necessary, you can modify patient's information using the onscreen keyboard.

- f. Select **Ok** to return to main display.

### Adjust Patient Size

The Patient Setup menu allows the clinician to adjust patient size. To adjust patient size on the Vital Signs Monitor:

- a. Press the  hardkey to access the **Patient Demographics** menu.

Or

- a. Admitting a patient from the **Local Patient List** or **ADT Database** page will automatically access the **Patient Demographics** menu.
- b. Select **Patient Category**.
- c. Select current size and adjust to **Adu** (adult), **Ped** (pediatric), or **Neo** (Neonate).
- d. Select **Ok** to return to main display.

**NOTE:** Adjusting patient size restores the monitor to the default (preconfigured) settings but does not clear patient information or data.

### Discharge A Patient

The Discharge function clears all patient information and restores default (preconfigured) settings.

To discharge a patient on the Vital Signs Monitor:

- Admit a new patient
- Place the monitor into Standby
- Turn the monitor off
- Select the **Save** quick key

**NOTE:** **Discharge Patient at Spot Check Saving** must be selected in the "**Save**" **Button Options** menu in order for the monitor to work this way.




## STANDBY\*

### Enter Standby

The Standby function allows the clinician to suspend monitoring on a patient. While in standby, the patient is not monitored; however, all data and settings are preserved.

To place a patient into Standby on the Vital Signs Monitor:


- Press the  hardkey.
- Select **Yes** to confirm.

### Resume Monitoring

To exit Standby and resume monitoring, select any key on the Vital Signs Monitor.


## RECORD

### Realtime Waveforms

To record a waveform on a patient on the Vital Signs Monitor's integrated recorder press the  hardkey on the monitor's recorder.

### Adjust Recorder's Waveforms

To adjust recorded waveforms on a patient on the Vital Signs Monitor's integrated recorder:

- Select the **Main** quick key to access the **Main** menu.
- Select **General Setup >>**, and then select **Print Setup >>**.
- Select the waveforms for recording.
- Select the **Main** quick key or  to return to the main display.

## NIBP\*

### Factors that Affect Blood Pressure Measurement Accuracy

The accuracy of non-invasive blood pressure (BP) measurement has been shown to be affected by numerous factors. Some of the more important aspects (based on published literature) to consider while measuring BP are:

- The cuff should fit snugly, but with enough room for two fingers to be placed between the cuff and the patient's arm (on adults), and loosely on neonates with little or no air present within the cuff.

- Use the Guidance Table provided to select the proper size cuff. Too small a cuff has been shown to result in the overestimation of BP (systolic and diastolic) while too large a cuff results in the underestimation of BP. Errors in the 10 to 40 mmHg range can occur.

Ensure that the cuff is wrapped directly over the patient’s skin. BP measurement could be 10 to 40 mmHg higher or lower than actual when the cuff is applied over clothing.

- The cuff should be applied so that the center of the bladder in the cuff is over the brachial artery. Use the reference marker for this.
- For best results, the cuff should be placed on the arm at heart level and the lower arm supported passively. Published data indicates that BP can increase about 2 mmHg for every inch that the cuff is below heart level and decrease by the same amount if above heart level.
- Avoid compression or restriction of the pressure hose. Do not place the NIBP cuff on a limb that is being utilized for any other medical procedure, for example, an I.V. catheter.
- Have the patient sit quietly for several minutes before BP measurement and remain still during measurement to avoid unnecessary motion artifact. If the patient has not rested before measurement, BP could be elevated by 10 to 20 mmHg.
- Do not talk to the patient during BP measurement as talking has been shown to result in a 10 to 15 mmHg overestimation of BP.
- The patient’s back and feet should be properly supported with the legs kept uncrossed. Unsupported back and feet could increase BP by up to 15 mmHg, while crossed legs could result in a 4 to 12 mmHg increase.
- Other factors that have been shown to result in an overestimation of BP are labored breathing (5 to 8 mmHg), full bladder (10 to 15 mmHg), pain (10 to 30 mmHg).

**Guidance Table**

Cuff Description	Limb Circumference
Child	10 - 19 cm
Small Adult	18 - 26 cm
Adult	25 - 35 cm


Cuff Description	Limb Circumference
Large Adult	33 - 47 cm
Thigh	46 - 66 cm
Adult Long	25 - 35 cm
Large Adult Long	33 - 47 cm

**References:**


1. American Association on Critical-Care Nurses (AACN): **Practice Alert, Non-Invasive Blood Pressure Monitoring** (April 2010)- <http://www.aacn.org/wd/practice/docs/practicealerts/non-invasive-bp-monitoring.pdf?menu=aboutus>
2. Pickering Thomas G, Hall John E, Appel Lawrence J, Falkner Bonita E, Graves John, Hill Martha N, Jones Daniel W, Kurtz Theodore, Sheps Sheldon G, Roccella Edward J. **Recommendations for blood pressure measurement in humans and experimental animals: Part 1: Blood pressure measurement in humans: A statement for professionals from the Subcommittee of Professional and Public Education of the American Heart Association Council on High Blood Pressure Research.** J Hypertens 2005; 45: 142-161.
3. O'Brien Eoin, Asmar Roland, Beilin Lawrie, Imai Yutaka, Mallion Jean-Michel, Mancia Giuseppe, Mengden Thomas, Myers Martin, Padfield Paul, Palatini Paolo, Parati Gianfranco, Pickering Thomas, Redon Josep, Staessen Jan, Stergiou George, Verdecchia Paolo. **European Society of Hypertension recommendations for conventional, ambulatory and home blood pressure measurement.** J Hypertens 2003; 21: 821-848.

**Initiate A Non-Invasive Blood Pressure Measurement (NIBP)**


To initiate a NIBP measurement on a patient on the Vital Signs Monitor:

- a. Press the  hardkey on the monitor's front panel.

Or

- a. Select NIBP parameter area to access the **NIBP Setup** menu.
- b. Select **Start NIBP**
- c. Select the **Main** quick key or  to return to the main display.


## Stop Non-Invasive Blood Pressure Measurement (NIBP)

To stop the *current* NIBP measurements on a patient on the Vital Signs Monitor, you can press the  hardkey on the monitor's front panel during the NIBP measurement.

To stop *all* NIBP measurements on a patient on the Vital Signs Monitor:

- a. Press the  hardkey on the monitor's front panel.


Or

- a. Select NIBP parameter area to access the **NIBP Setup** menu.
- b. Select **Stop All**.
- c. Select the **Main** quick key or  to return to the main display.

## Set A Non-Invasive Blood Pressure Measurement Interval

The Vital Signs Monitor allows the clinician to set a pre-configured interval for a NIBP measurement to be obtained automatically.

To set an automatic interval on the Vital Signs Monitor:

- a. Select NIBP parameter area to access the **NIBP Setup** menu.
- b. Set **Interval**.
  - **Interval** can be set to **1 min, 2 min, 2.5 min, 3 min, 5 min, 10 min, 15 min, 20 min, 30 min, 1 h, 1.5 h, 2h**: The monitor automatically measures NIBP based on the specified time interval.
  - **Interval** can be set to **Program 1/Program 2**: The monitor automatically measures NIBP based on a program customized by the user.
- c. Select the **Main** quick key or  to return to the main display.

## Initiate An Averaging Program

The Vital Signs Monitor allows the clinician to set an NIBP averaging program in spot check mode. To initiate an NIBP averaging program, follow this procedure:

- a. Select the NIBP parameter area to access the **NIBP Setup** menu.
- b. Set **Mode** to **Averaging**.
- c. Select **Program**.
- d. Select **Start NIBP**.

## Configure A Custom Program

The Vital Signs Monitor allows the clinician to perform NIBP measurements based on a customized program.

To configure a custom program on the Vital Signs Monitor:

- a. Select NIBP parameter area to access the **NIBP Setup** menu.
- b. Select **Custom Program >>**.
- c. Set **Program** to **Program 1** or **Program 2**.
- d. Set **Duration** and **Interval** for each measurement cycle.
- e. Select **Ok** to confirm.
- f. Set **Interval** to **Program 1** or **Program 2**.

## ALARMS\*

### Adjust Alarm Limits

The Alarm Setup tab allows the clinician to configure alarm limits and alarm responses on the Vital Signs Monitor.

To adjust a patient's alarm limit on the Vital Signs Monitor:


- a. Select parameter's waveform or numeric tile to open the parameter's Setup menu.
- b. Select **Alarm Setup >>**.
- c. Select High or Low limit value and adjust using the up and down arrows.
- d. Select Off in the limit value area to switch off the parameter's alarm limit(s).
- e. Select the **Main** quick key or **X** to return to the main display.

Or


- a. Select the **Main** quick key to access the **Main** menu.
- b. Select **Alarm Setup >>**.
- c. Scroll and select the parameter
- d. Select High or Low limit value and adjust using the up and down arrows
- e. Select **Off** in the limit value area to switch off the parameter's alarm limit(s)
- f. Select the **Main** quick key or **X** to return to the main display.

## Adjust Alarm Responses

To adjust a patient's alarm responses on the Vital Signs Monitor:




- a. Select parameter's waveform or numeric tile to open the parameter's Setup menu.
- b. Select **Alarm Setup >>**
- c. Select
  - **On/Off** – to switch on or off the alarm's limits or responses
  - **Level** – to adjust the audio and visual alarm indicators. Level options include High (Red), Medium (Yellow), and Low (Yellow)
  - **Restore Defaults** – to restore preset settings
- d. Select the **Main** quick key or  to return to the main display.

Or


- a. Select the **Main** quick key to access the **Main** menu.
- b. Select **Alarm Setup>>**.
- c. Scroll and select parameter
- d. Select
  - **On/Off** – to switch on or off the alarm's limits or responses
  - **Level** – to adjust the audio and visual alarm indicators. Level options include High (Red), Medium (Yellow), and Low (Yellow)
  - **Restore Defaults** – to restore preset settings
- e. Select the **Main** quick key or  to return to the main display.

## Alarm Status Symbols


The Vital Signs Monitor uses the following symbols telling the alarm status:

-  indicates alarms are paused.
-  indicates alarms are reset.
-  indicates the alarm sound is turned off.

## RESET ALARMS\*

To reset ***an alarm for the duration of the alarm*** on the Vital Signs Monitor, press the  hardkey on the front panel of monitor.

## PAUSE ALL ALARMS\*

To pause ***all alarms*** on the Vital Signs Monitor for a preconfigured amount of time, press and hold the  hardkey on the front panel for more than 2 seconds.

## SEND PATIENT DATA TO THE EMR

The Vital Signs Monitor can send patient data, including parameter values, related alarms and alarm settings, patient information and historical data to the EMR system.

To send patient data on the Vital Signs Monitor to the EMR system:

- a. Select the **Review** quick key.
- b. Select the **Spot Check Trends** tab.
- c. Select the desired patient records.
- d. Select **Send**.

Or

If **Automatically Send on Manual Save** is configured, simply select the **Save** quick key.

## SCREEN DISPLAY

The Vital Signs Monitor allows the clinician to adjust the main display based on patient acuity.




To adjust the main screen's layout on the Vital Signs Monitor:

- a. Select the **Main** quick key to access the **Main** menu.
- b. Select the **General Setup>>**.
- c. Set **Display Setup**
  - **All Parameters:** Real time waveforms and numeric parameters on the main display
  - **Trend:** Split screen with tabular trend on the lower portion of the display with real time waveforms and numeric parameters

- **NIBP List:** Split screen with NIBP list on the lower portion of the display with real time waveforms and numeric parameters

## HISTORICAL TRENDS

To display and record Tabular (List) trends on a patient on the Vital Signs Monitor:

- a. Select the **Review** quick key.
- b. Select the **Spot Check Trends** tab.
  - Select **MRN** or **Name**, and then select the desired patient.
  - Select **Filter** to select the desired parameter trends.
  - Select the page key (for example  1/1 ), and then use the up or down arrow beside this key to turn the page.
  - Select **Edit** to edit patient demographics or manual input data of selected patient.
  - Select **Delete** to delete the trend data of selected patient.
  - Select **Print** to print the trend data of selected patient.
  - Select **Send** to transfer the trend data of selected patient.
- c. Select the **Main** quick key or  to return to the main display.

## MEWS

The MEWS (Modified Early Warning Score) calculates a total score and provides a clinical response based on the entered parameters.

To calculate a clinical scoring on a patient on the Vital Signs Monitor:

- a. Obtain all parameter values.
- b. Enter all required manual inputs.
- c. Clinical score will be automatically be calculated and displayed.



## VOLUMES

The alarm volume and key volume can be adjusted on the Vital Signs Monitor.

### Alarm Volume

To adjust the alarm volume on the Vital Signs Monitor:

- a. Select the **Main** quick key to access the **Main** menu.
- b. Select **General Setup >>** and select **Alarm Volume**.
- c. Select volume ranging from X\*-10 (0=Off 10=Max).
- d. Select the **Main** quick key or **X** to return to the main display.

\*The minimum volume range(X) is configurable.

### Key Volume

To adjust the key volume on the Vital Signs Monitor:

- a. Select the **Main** quick key to access the **Main** menu.
- b. Select **General Setup >>** and select **Key Volume**.
- c. Select volume ranging from 0-10 (0=Off 10=Max)
- d. Select the **Main** quick key or **X** to return to the main display.

## DATE AND TIME


To adjust the date and time on the Vital Signs Monitor:

- a. Select the **Main** quick key to access the **Main** menu.
- b. Select **General Setup>>** and select **System Time>>**
- c. Set the date and time.
- d. Select **Date Format** to adjust the month, day, and year format.
- e. Select **Time Format** to adjust the time format (12h or 24h).
- f. Select the **Main** quick key or **X** to return to the main display.

## PARAMETER COLORS

The Vital Signs Monitor provides the ability to adjust the parameter's numeric and waveform (if applicable) color.

To adjust the parameter's color on the Vital Signs Monitor:

- a. Select the **Main** quick key to access the **Main** menu.
- b. Select **General Setup>>** and select **Parameter Color Setup >>**.
- c. Select parameter.
- d. Select color.
- e. Select the **Main** quick key or  to return to the main display.

## LOAD DEFAULT (PRESET) SETTINGS

The Vital Signs Monitor settings are automatically restored either when the patient size is adjusted, or when Admit or Discharge is performed.


A clinician may restore defaults on a patient currently being monitored on the Vital Signs Monitor by:

- a. Select the **Main** quick key to access the **Main** menu.
- b. Select **Load Configuration >>**.
- c. Select user defined (preset) configuration from displayed list.
- d. Select **Load**.
- e. Select **Yes** to confirm and return to the main display.

## LOCK/UNLOCK TOUCHSCREEN DISPLAY

The Vital Signs Monitor provides the ability to lock and unlock the touchscreen display.

To lock the touchscreen display on the Vital Signs Monitor press and hold the **Main** quick key for 3 seconds until  appears.

To unlock the touchscreen display on the Vital Signs Monitor press and hold Lock  for 3 seconds until the **Main** quick key appears.

CLEANING/DISINFECTING

Cleaning the Main Unit



Clean your equipment on a regular basis. Before cleaning, consult your hospital's regulations for cleaning the equipment.

The following table lists approved cleaning and disinfecting agents.

Product Name	Product Type	Ingredients
Sodium hypochlorite bleach*	Liquid	Sodium hypochlorite bleach 0.5%
Hydrogen peroxide*		Hydrogen peroxide 3%
Isopropanol*		Isopropanol 70%
1-Propanol*		1-Propanol 50%
Metrex CaviCide1™		Diisobutylphenoxyethoxyethyl dimethyl benzyl ammonium chloride 0.28%, Isopropanol 17.2%
Virex® II 256		Didecyl dimethyl ammonium chloride 8.704%, n-Alkydimethyl benzyl ammonium chloride 8.190%
Virex®TB	Powder	n-Alkyl dimethyl benzyl ammonium chlorides 0.105%, n-Alkyl dimethyl ethylbenzyl ammonium chlorides 0.105%
Rely+On™ Virkon®Powder *(Used as 1% solution)		Used as 1% solution Biocidal active: Pentapotassium bis (peroxymonosulphate) bis (sulphate)(500g/kg), Contains dipotassium peroxodisulphate.

Product Name	Product Type	Ingredients
Alpet® D2 Surface Sanitizing Wipes	Wipes	Isopropyl Alcohol 58.6000%  Octyl Decyl Dimethyl Ammonium chloride 0.0075%,  Dioctyl Dimethyl Ammonium Chloride 0.0030%
Clorox Dispatch® Hospital Cleaner Disinfectant Towels with Bleach		Sodium Hypochlorite 0.65%
Clorox Healthcare®Bleach Germicidal Wipes		Sodium Hypochlorite 0.55%
Clorox Healthcare® Hydrogen Peroxide Cleaner Disinfectant Wipes		Hydrogen Peroxide 1.4%
Diversey Oxivir®TB Wipes		Hydrogen Peroxide 0.5%
Metrex CaviWipes™		Diisobutylphenoxyethoxyethyl dimethyl benzyl ammonium chloride 0.28%,  Isopropanol 17.2%
PDI Sani-Cloth® AF3 Germicidal Disposable Wipe		n-Alkyl dimethyl ethylbenzyl ammonium chlorides 0.14%,  n-Alkyl dimethyl benzyl ammonium chlorides 0.14%
PDI Sani-Cloth®Bleach Germicidal Disposable Wipe		Sodium Hypochlorite 0.63%,other ingredients 99.37%
PDI Sani-Cloth® HB Germicidal Disposable Wipe		n-Alkyl dimethyl ethylbenzyl ammonium chlorides 0.07%,  n-Alkyl dimethyl benzyl ammonium chlorides 0.07%

Product Name	Product Type	Ingredients
PDI Sani-Cloth® Plus Germicidal Disposable Cloth	Wipes	n-Alkyl dimethyl ethylbenzyl ammonium chlorides 0.125%, n-Alky dimethyl benzyl ammonium chlorides 0.125%
PDI Super Sani- Cloth®Germicidal Disposable Wipe		n-Alkyl dimethyl ethylbenzyl ammonium chlorides 0.25%, n-Alkyl dimethyl benzyl ammonium chlorides 0.25%, Isopropyl Alcohol 55.0%,
VIRAGUARD Hospital Surface Disinfectants		Isopropanol 70%,Other ingredients 30%

**NOTE:** For equipment with the symbol , all the listed cleaning and disinfecting agents are available for use. For equipment without the symbol , only the cleaning and disinfecting agents marked with "\*" are available for use.

To clean the equipment:

- Shut down the monitor and disconnect it from AC power.
- Clean the display screen with wipes or a soft cloth moistened with one of the cleaning agents listed in the table above.
- Clean the exterior surface of the equipment with wipes or a soft cloth moistened with one of the cleaning agents listed in the table above. Avoid wetting the pins and metal parts.
- Wipe off all the residue with a dry cloth.
- Dry your equipment in a ventilated, cool place.

### Disinfecting the Main Unit

Disinfect your equipment as required in your hospital's servicing schedule using one of the disinfecting agents listed in the table above. Cleaning equipment before disinfecting is recommended.

## **Cleaning and Disinfecting the Accessories**

For information about cleaning and disinfecting of accessories, please refer to the manufacturer's packaging or the Vital Signs Monitor Operator's Manual.

## **STERILIZATION**

Sterilization is not recommended for this equipment, related products, accessories, or supplies unless otherwise indicated in the Instructions for Use that accompany the products, accessories or supplies.



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