BeneVision N17/N15/N12/N12C

Patient Monitor Quick Reference Guide

Symbol	Function
Main Menu	Enters the main menu.
Alarm Reset	Acknowledges ongoing alarms and resets the alarm system.
Audio Pause	Pauses alarm tone.
Review	Enters the **Review** menu.
Patient Management	Enters the **Patient Management** menu.
NIBP Start/Stop	Starts an NIBP measurement or stops the current NIBP measurement.
NIBP STAT	Starts a five-minute continuous NIBP measurement.
Zero IBP	Starts IBP zero calibration.
PAWP	Enters the **PAWP** screen.
Venipuncture	Opens the **Venipuncture** window.
Parameters Setup	Enters the **Parameters Setup** menu.

Symbol	Function
More	Shows more quick keys.
Alarm	Enters the **Alarm** menu.
Alarm Pause	Pauses the current alarms.
Standby	Enters the standby mode.
Screen Setup	Enters the **Screen Setup** menu.
Stop All	Stops all NIBP measurements.
NIBP Measure	Enters the **NIBP Measure** menu.
C.O. Measure	Opens the **C.O. Measure** window.
Loops	Opens the **Loops** window.
Start TOF	Starts/stops TOF measurement.
Remote View	Opens the **Remote View** window.

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Symbol	Function
Manual Event	Manually triggers and saves an event.
OxyCRG	Opens the **OxyCRG** window.
Privacy Mode	Enters the privacy mode.
CPB Mode	Enters the CPB mode.
Volume	Enters the **Volume** menu.
Calculations	Enters the **Calculations** menu.
Print	Starts printing a real-time report.
ECG Lead/Gain	Enters the ECG Lead/Gain menu.
BoA	Enters the **BoA Dashboard** screen.
GCS	Enters the **GCS** menu.
HemoSight	Enters the **HemoSight** menu.
Pace View	Opens the **Pace View** window.
Discharge Patient	Enters the **Discharge Patient** dialog box.

Symbol	Function
Minitrends	Enters the Minitrends screen.
ECG Full-Screen	Enters the 12-lead ECG full screen.
Night Mode	Enters the night mode.
Intubation Mode	Enters the intubation mode.
Freeze	Freezes waveforms.
Load Config	Enters the **Load Config** menu.
Record	Starts/Stops a recording.
Call Help	Calls for help.
EWS	Enters the **EWS** screen.
SepsisSight	Enters the **SepsisSight** menu.
Rescue Mode	Enters the **Rescue** mode.
ECG 24h Sum	Views the 24 hour ECG summary.
Discharged Patients	Enters the **Discharged Patients** dialog box.

Turning on the Monitor

Press the power switch to turn on the monitor.

Display

Choosing a Screen

1. Access **Choose Screen** by either of the following ways:

   ◆ Select the **Screen Setup** quick key.

   ◆ Select the **Main Menu** quick key → from the **Display** column select **Choose Screen**.

2. Select the desired screen.

Selecting the Big Numerics Screen

1. Access **Choose Screen** by either of the following ways:

   ◆ Select the **Screen Setup** quick key.

   ◆ Select the **Main Menu** quick key → from the **Display** column select **Choose Screen**.

2. Select **Big Numerics**.

3. Select a parameter numeric area or waveform area, and then from the popup list select an element you want to display in this area.

Displaying Parameter Numerics and Waveforms

1. Access **Tile Layout** by either of the following ways:

   ◆ Select the **Screen Setup** quick key → select the **Tile Layout** tab.

   ◆ Select the **Main Menu** quick key → from the **Display** column select **Tile Layout**.

2. Select a parameter numeric area or waveform area, and then from the popup list select an element you want to display in this area. The parameters and waveforms you do not select will not be displayed.

Setting the Quick Key

1. Set the quick key by either of the following ways:

   ◆ Select the **Screen Setup** quick key → select the **Select Quick Keys** tab.

   ◆ Select the **Main Menu** quick key → from the **Display** column select **Quick Keys**.

2. Select the **Current** tab to configure the quick keys you want to display on the screen: From the top of this page, select a block where you want to show a certain quick key, and then select the quick key from the quick key list.

3. Select the **More** tab to configure the quick keys you want to display when the **More** quick key is selected.

Monitoring ECG

Choosing the ECG Lead Type

1. Select the ECG numeric area or waveform area to enter the **ECG** menu.

2. From the **ECG** page, select the **Setup** tab.

3. Set **Lead Set** according to the lead type you are going to use. The default lead type is **Auto**. In this case, the monitor automatically detects the used lead type.

Checking Paced Status

1. Select the ECG numeric area or waveform area to enter the **ECG** menu.

2. From the **ECG** page, select the **Pacer** tab.

3. Set **Paced** to **Yes** or **No**.

Enabling ST Monitoring

1. Select the ECG numeric area or waveform area to enter the ECG menu.

2. Select the **ST** tab → select the **Setup** tab.

3. Switch on **ST Analysis**.

Enabling QT/QTc Interval Monitoring

1. Select the ECG numeric area or waveform area to enter the ECG menu.

2. Select the **QT** tab → select the **Setup** tab.

3. Switch on **QT Analysis**.

Entering the 12-Lead Screen

1. Select the ECG numeric area or waveform area to enter the **ECG** menu.

2. From the bottom of the ECG page, select **12-Lead**.

You can also enter the 12-Lead screen by either of the following ways:

- Select the **Screen Setup** quick key → select **ECG 12-Lead**.
- Select **Main Menu** quick key → from the **Display** column select **Choose Screen** → select **ECG 12-Lead**.

Initiating Resting 12-lead ECG Analysis

To initiate 12-Lead ECG analysis, select **Analyze** from the left bottom of the 12-Lead screen.

Monitoring NIBP

Starting or Stopping NIBP Measurement

Task	By Quick Key	From NIBP menu
Start a manual measurement	**NIBP Start/Stop** quick key 📞	**Start NIBP** button
Start auto NIBP series	**NIBP Start/Stop** quick key 📞	**Setup** tab → set **Interval** → **Start NIBP** button
	NIBP Measure quick key 📞 → select interval	
Start NIBP sequence measurement	**NIBP Measure** quick key 📞 → **Sequence**	**Sequence** tab → set NIBP sequence → select **Start NIBP** button
Start STAT measurement	**NIBP STAT** quick key 📞	**STAT** button
	NIBP Measure quick key 📞 → **STAT**	
Stop the current NIBP measurements	**NIBP Start/Stop** quick key 📞	**Stop NIBP** button
End auto NIBP series or NIBP sequence	**Stop All** quick key 📞	**Stop All** button
Stop STAT measurement and end series	**NIBP Start/Stop** quick key 📞	**Stop NIBP** or **Stop All** button
	NIBP STAT quick key 📞	

Setting the NIBP Interval

1. Select the **NIBP** numeric area to enter the **NIBP** menu.

2. Select the **Setup** tab.

3. Set **Interval**. Selecting **Manual** switches to manual mode.

Monitoring IBP

Changing the Pressure Label

The pressure label is a unique identifier for each type of pressure. Therefore, you should select a proper pressure label for the source of the pressure you want to monitor.

To select the pressure label, follow this procedure:

1. Select an IBP numeric area or waveform area to enter the corresponding pressure menu.

2. Select the **Setup** tab.

3. Select the desired Label.

Zeroing the IBP Transducer

1. Connect the IBP transducer, the IBP adapter cable and the module.

2. Turn off the three-way valve (the one close to the transducer) to the patient, in order to Vent the transducer to the atmospheric pressure.

3. Zero the transducer by one of the following ways:

   ◆ Press the **Zero** hard key on the module.

   ◆ Select the numeric area (such as the Art numeric area), and then select **Zero**.

   ◆ Select the **IBP Zero** quick key.

4. After the zero calibration is completed, close the stopcock to the air and open the stopcock to the patient.

Patient Management

Editing Patient Information

1. Select the **Patient Demographics** quick key.

2. In the **Patient Management** menu, edit patient information as required.

If you connect a barcode reader with your monitor, you can scan the patient's barcode to enter the patient's medical number.

Discharging a Patient

Manually discharge a patient using one of the following ways:

■ Select the **Discharge Patient** quick key.

■ Select the **Patient Demographics** quick key → select **Discharge Patient**.

■ Select the **Main Menu** quick key → from the **Patient Management** column select **Discharge**.

Alarms

Alarm Status Symbols

Symbol	Description	Symbol	Description
	All the alarms are paused.		Audible alarm tones are paused.
	Audible alarm tones are turned off.		Alarms are acknowledged and the alarm system is reset.
	Individual physiological alarms are turned off or the system is in the alarm off status.		

Setting Parameter Alarm Properties

1. Access the **Limits** page by either of the following ways:

   ◆ Select the **Alarm** quick key.

   ◆ Select the **Main Menu** quick key → from the **Alarm** column select **Limits**.

2. Select a parameter tab and set alarm switch, limits, priority, etc.

Changing Arrhythmia Alarm Settings

1. Select the ECG parameter area or waveform area to enter the **ECG** menu.

2. Select the **Arrhythmia** tab → selec the **Alarm** tab.

3. Set the alarm properties.

Initiating Auto Alarm Limits

1. Access the **Limits** page by either of the following ways:

   ◆ Select the **Alarm** quick key → select the **Limits** tab.

   ◆ Select the **Main Menu** quick key → from the **Alarm** column select **Limits**.

2. From the **Limits** page, select **Auto Limits** at the left bottom.

Pausing Alarms/Pausing Alarm Tones

1. Select the **Main Menu** quick key → turn to the third page → from the **System** column select **Maintenance** → input the required password → select **Ok**.

2. Select the **Alarm** tab → select the **Pause/Reset** tab.

3. Set **Pause** to **Alarm Pause** or **Audio Pause**.

Resetting Alarms

Pressing the **Alarm Reset** to acknowledge the ongoing alarms and reset the alarm system.

Accessing Help When Technical Alarms Occur

In the technical alarm list, alarm messages followed by **Detail** includes help information.

1. Select the technical alarm information area to enter the **Alarms** window.

2. Select the **Technical Alarms** tab.

3. Select the desired alarm.

Entering Night Mode

1. Select the **Night Mode** quick key, or select the **Main Menu** quick key → from the **Display** column select **Night Mode**.

2. Change the night mode settings if necessary.

3. Select **Enter Night Mode**.

Entering Privacy Mode

Choose one of the following ways to enter the privacy mode:

■ Select the **Privacy Mode** quick key → select **Ok**.

■ Select the **Main Menu** quick key → from the **Display** column select **Privacy Mode** →
   select **Ok**.

Configuring the Monitor

Adjusting the Volume

Select the **Volume** quick key to set **Alarm Volume**, **QRS Volume**, and **Key Volume**.

Adjusting the Screen Brightness

1. Access Display by either of the following ways:

   ◆   Select the **Screen Setup** quick key → select the **Display** tab.

   ◆   Select the **Main Menu** quick key → from the **Display** column select **Display**.

2. From the **Primary Screen** block, set **Brightness** for the primary display.

3. From the **Secondary Screen** block, set **Brightness** for the secondary display if
   configured.

Reviewing Trends

To review trends, enter the **Review** window by one of the following ways:

■ Select the **Review** quick key.

■ Select the **Main Menu** quick key → from the **Review** column select one option.

Viewing Other Beds

To view other beds, enter the **Remote View** window by one of the following ways:

■ Select the **Remote View** quick key.

■ Select the **Screen Setup** quick key → select the **Primary Display tab** or **Secondary
   Display** tab → select the **Choose Screen** tab → select **Remote View**.

■ Select the bed at the alarm watch tile, if configured, on the main screen.

Company Contact

Shenzhen Mindray Bio-Medical Electronics Co., Ltd.
Mindray Building, Keji 12th Road South, High-tech Industrial Park,
Nanshan, Shenzhen 518057 P.R. China
Website: www.mindray.com
Tel: +86 755 81888998   Fax: +86 755 26582680

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CE 0123

Shanghai International Holding Corp. GmbH(Europe)
Eiffestraße 80, 20537 Hamburg Germany

046-009997-00 (3.0)