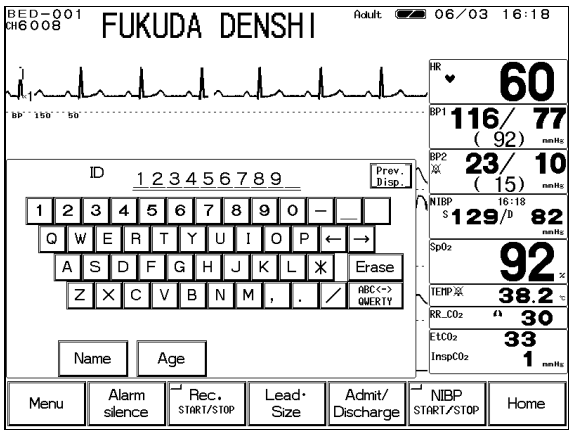
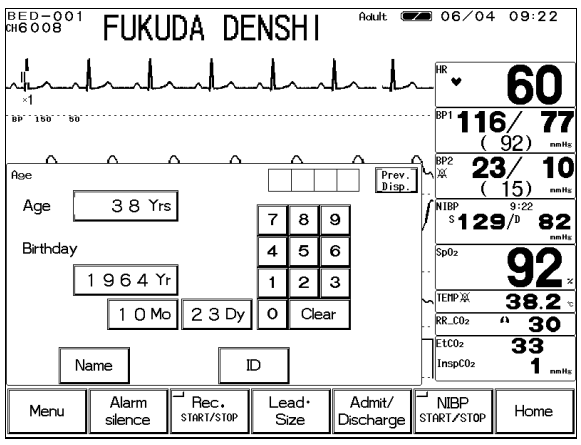


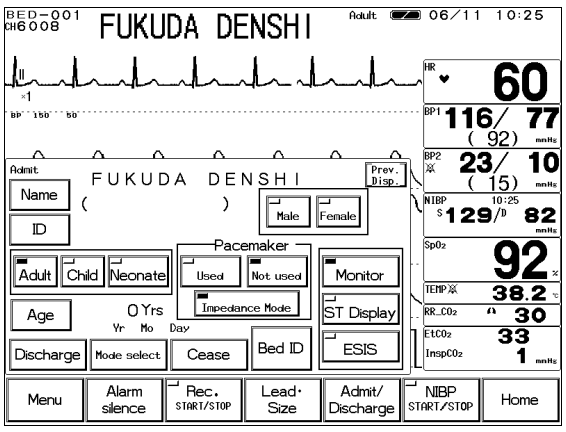
Press the [ID] key.
Enter the ID number using the numeric keypad.

3. Enter the patient's birth date.



Press the [Age] key.
Enter the birth date using the numeric keypad.

4. Select the patient type, and [Used] / [Not used] of pacemaker use.

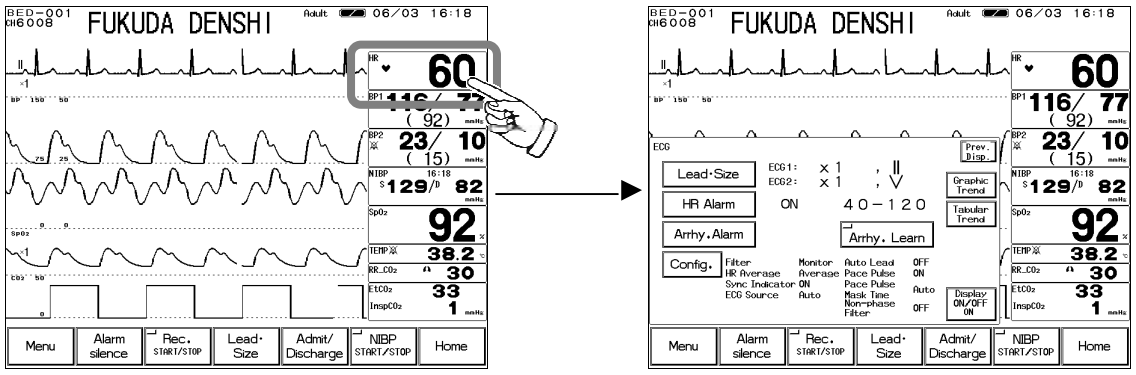


Select the patient type from [Adult], [Child], or [Neonate].
Select the pacemaker use from [Used], [Not used].

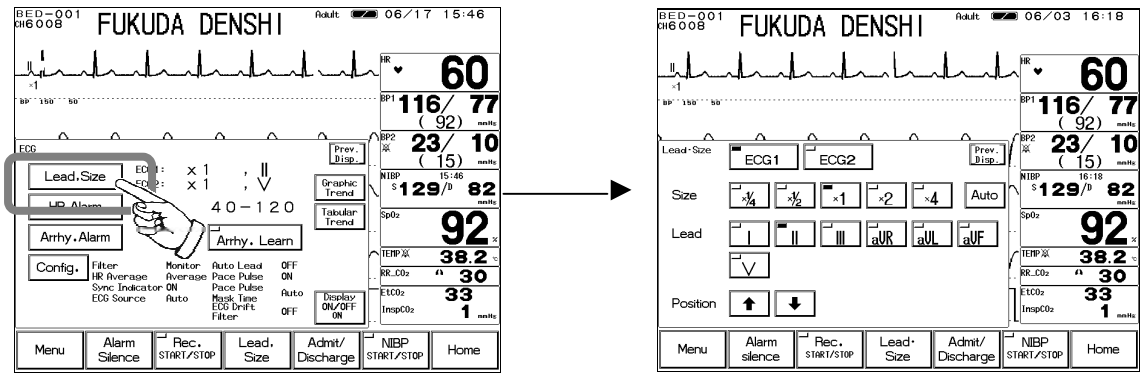
⚠WARNING	The patient type and pacemaker use must be selected. The patient type selection influences the precision of the QRS detection and NIBP measurement. Make sure the correct selection is made.

Scale, Lead, Baseline Position Setup (Parameter Key)

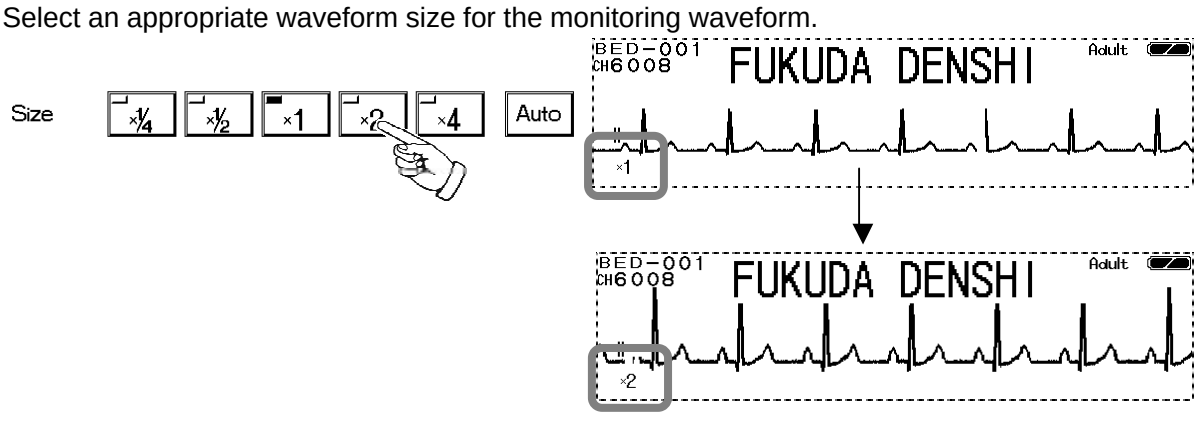
1. **Select the parameter to set the scale / lead / baseline position. (Ex.: ECG)**
   Press the parameter key where heart rate is displayed.



2. **Press the Lead • Size key. The menu to adjust size / lead / baseline position will be displayed.**



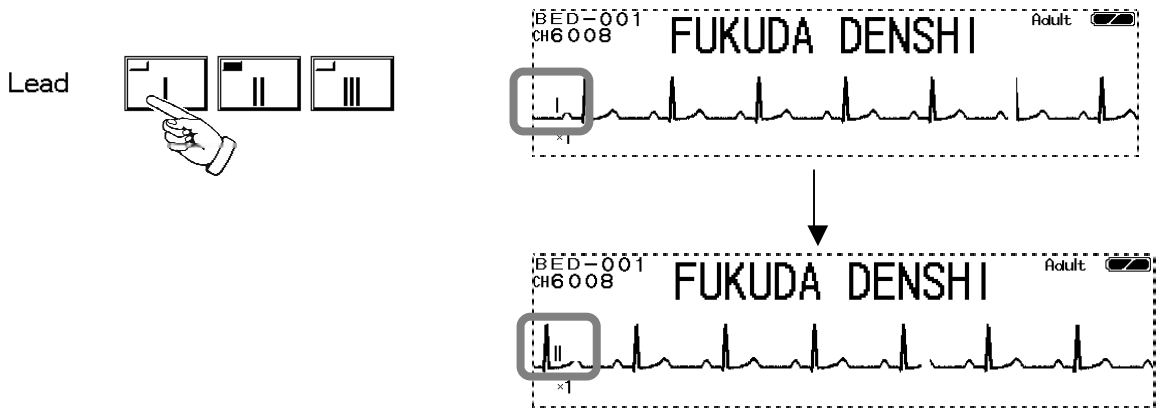
3. **Adjust the waveform size.**
   Select an appropriate waveform size for the monitoring waveform.



⚠CAUTION	The arrhythmia detection level corresponds with the displayed waveform size. Select an appropriate size for monitoring.

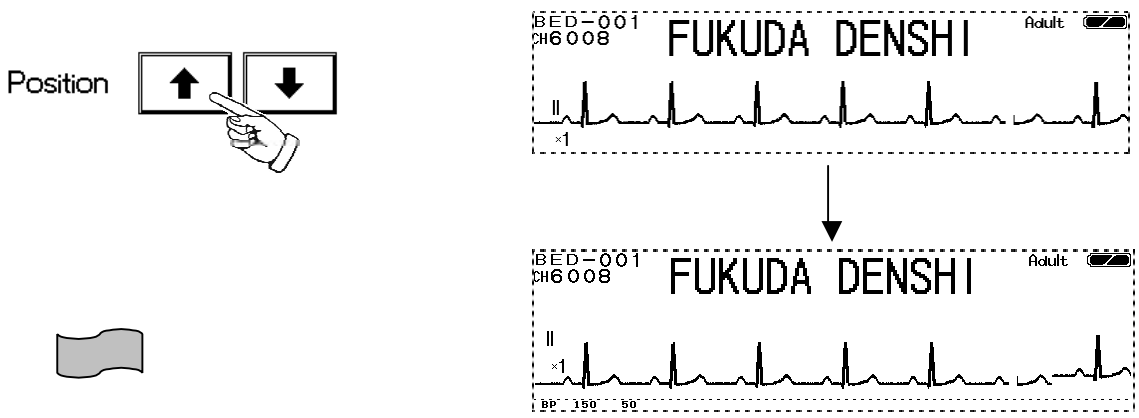
4. Select the lead.

Select an appropriate lead according to the monitoring purpose.



5. Adjust the baseline position.

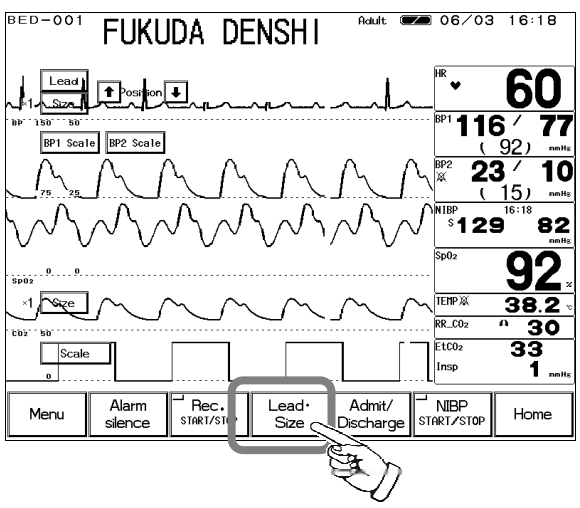
Use the [✍], [✍] keys to adjust the waveform baseline position.



Reference

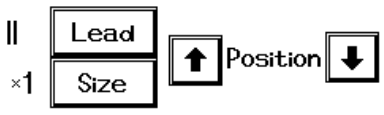
Use the same procedure for each parameter.
Refer to section for each parameter in “6. Parameter Setup”.

Scale, Lead, Baseline Position Setup (User Key)



Pressing the Lead • Size key will display the arrow keys on the home display to adjust waveform size, scale, lead, baseline position.

1. **Select the waveform size, lead, baseline position for ECG waveform.**
   Adjust the waveform suitable for monitoring.

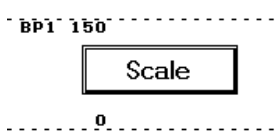


Pressing the Lead key will sequentially change the lead.
3-electrode: Ⅰ→Ⅱ→Ⅲ→Ⅰ
4-electrode: Ⅰ→Ⅱ→Ⅲ→aVR→aVL→aVF→Ⅰ
5-electrode: Ⅰ→Ⅱ→Ⅲ→aVR→aVL→aVF→V→Ⅰ

Pressing the Size key will sequentially change the size.
×1/4→×1/2→×1→×2→×4→×1/4

Use the ↑, ↓ keys to adjust the baseline position up or down.

2. **Select the scale for BP, CO_2 waveform.**



Pressing the Scale key will sequentially switch the scale.

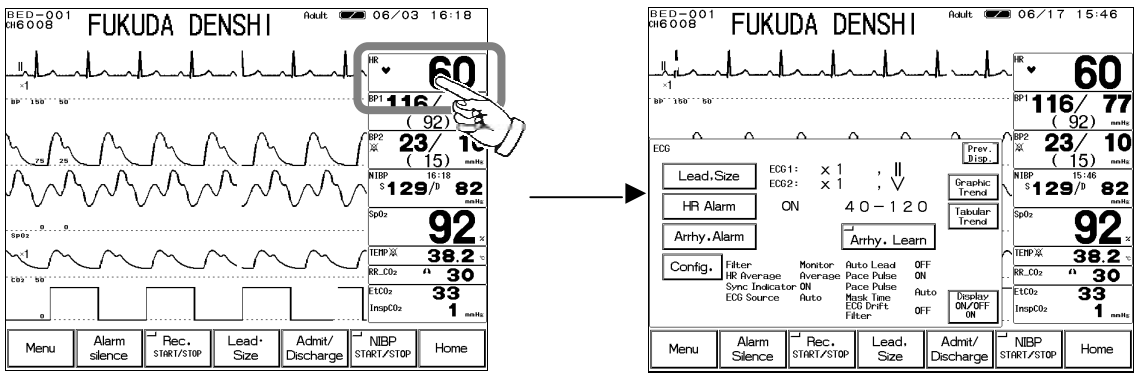
3. **Select the waveform size for impedance respiration waveform, SpO_2 waveform.**

Pressing the Size key will sequentially change the size.
×1/4→×1/2→×1→×2→×4→×1/4

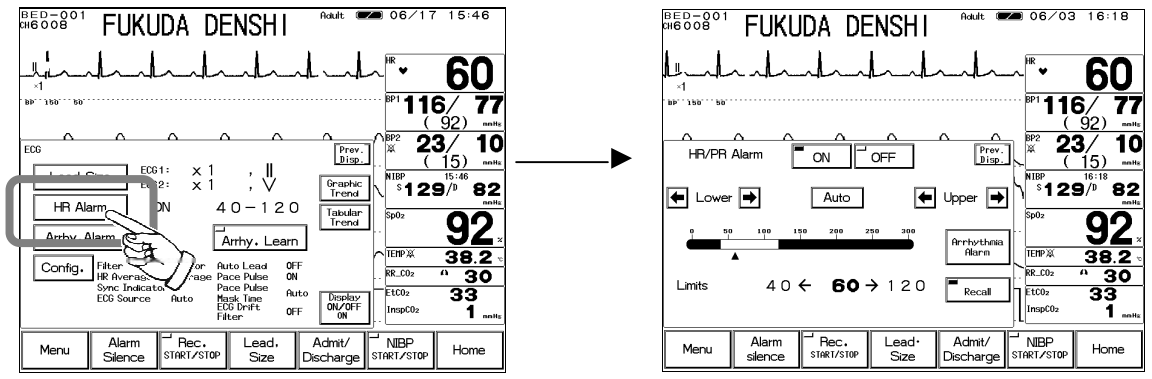
Alarm Setup for Each Parameter

The alarm can be set for each parameter. By pressing the selected parameter key, upper and lower alarm limit and ON/OFF of alarm can be set.

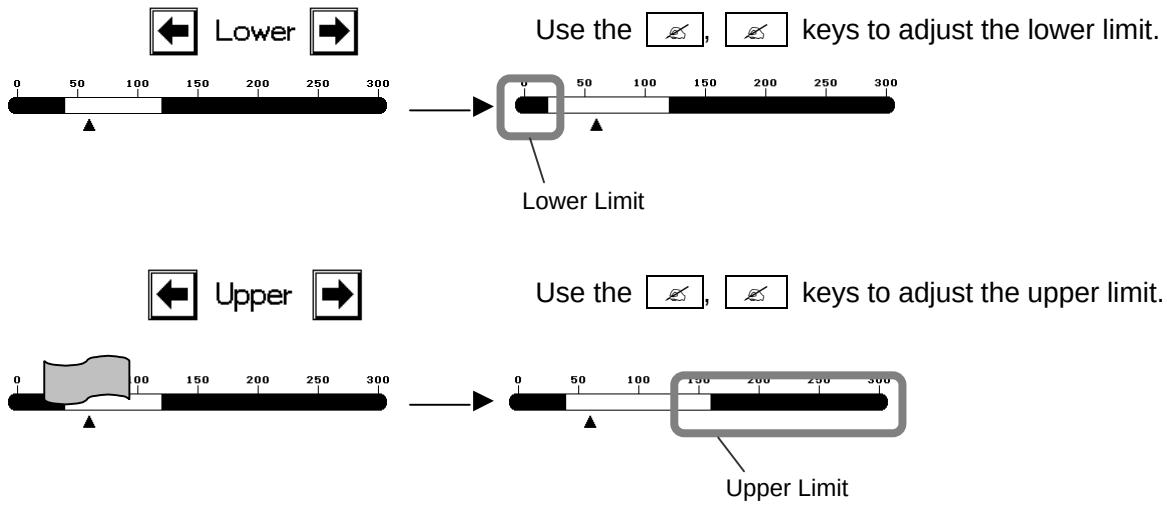
1. Select the parameter to set the alarm. (Ex.: HR alarm)



2. Press the HR Alarm key. The menu to adjust the alarm limit will be displayed.



3. Set the upper and lower alarm limit.

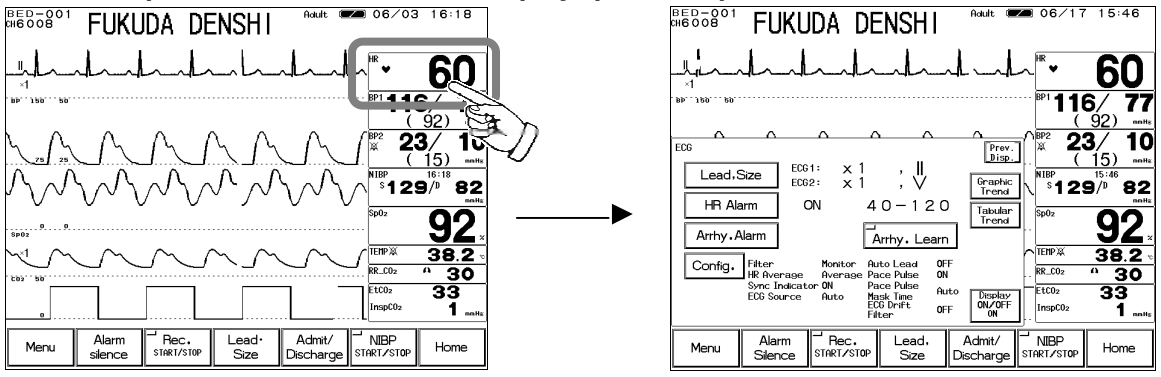


Reference Use the same procedure for the setup of each parameter.
Refer to section for each alarm in “6. Parameter Setup”

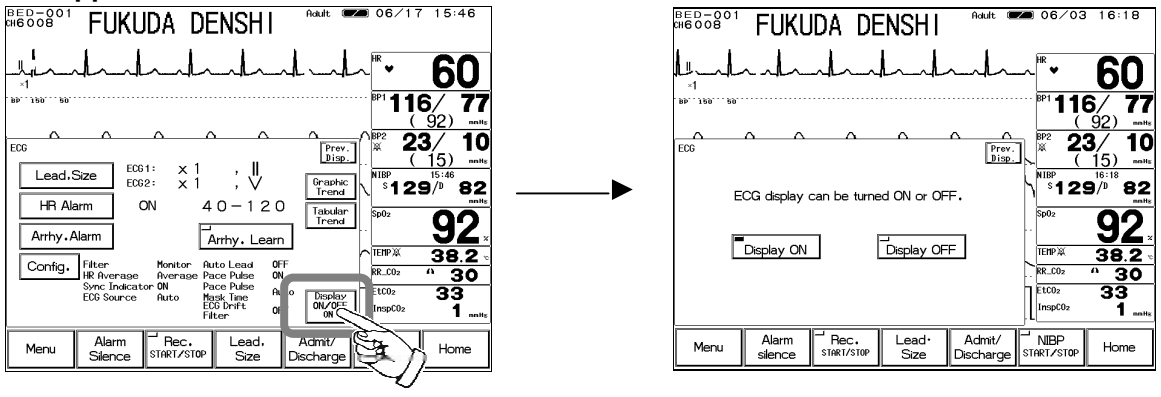
ON/OFF of Parameter Display — Waveform/Numeric Data Display

The waveform and numeric data display for each parameter can be turned ON or OFF without changing the display configuration. If not performing the ECG or SpO_2 measurement while the ECG cable or SpO_2 sensor is connected to the monitor, the equipment status alarm such as “Lead Off” will generate. Removing ECG or SpO_2 from the display configuration will not generate such alarm, but this function may be more useful as it allows to turn off the measurement without changing the display configuration.
This function is not available for NIBP monitoring.

1. Select the parameter to turn off the display. (Ex.: ECG)

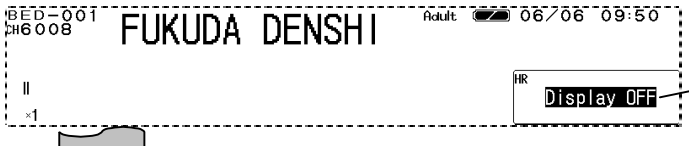


2. Press the [Display ON/OFF] key. The confirmation display for ON/OFF of ECG display will appear.



3. Select [Display ON] or [Display OFF].

Pressing the [Display ON] key will display the waveform and numeric data.
Pressing the [Display OFF] key will not display the waveform and numeric data.



The Display OFF message will be displayed inside the parameter key.

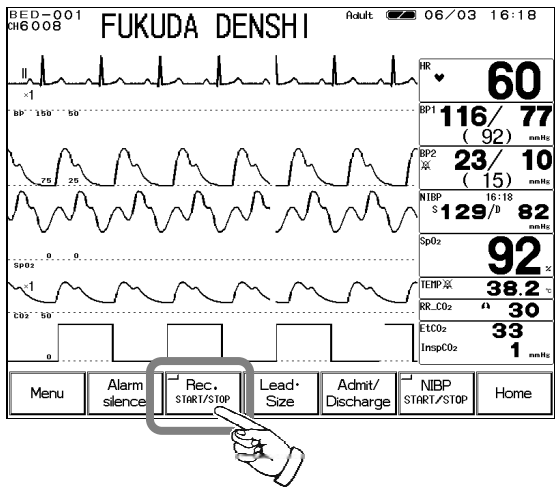
4. Automatic reset

For ECG, impedance RESP, SpO_2, CO_2, properly connecting the sensor will automatically set the display ON/OFF function to “Display ON”.

Reference	For automatic reset condition, refer to Display ON/OFF section for each parameter in “6. Parameter Setup”.

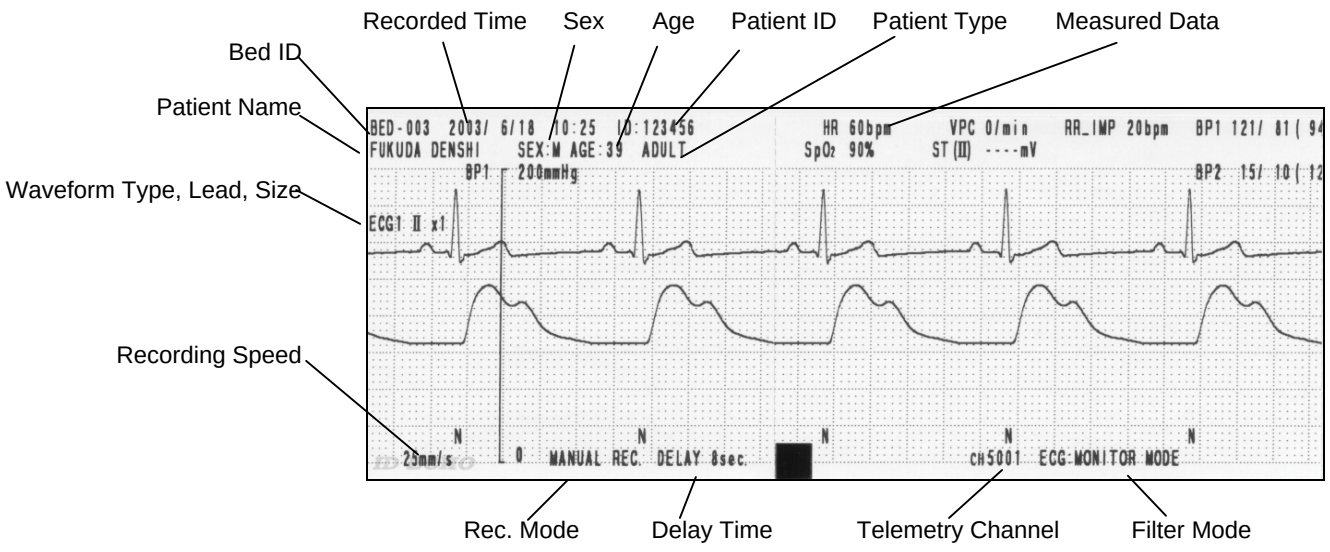
Recording

●Start / Stop of Waveform Recording



Pressing the Rec. START/STOP key on the home display will start the waveform recording. Up to 3 waveforms can be recorded.

【Example of Recording】



Reference

For the manual recording, number of recording waveforms and recording duration can be set.
Refer to “4. Monitoring Setup　Manual Recording” for details.

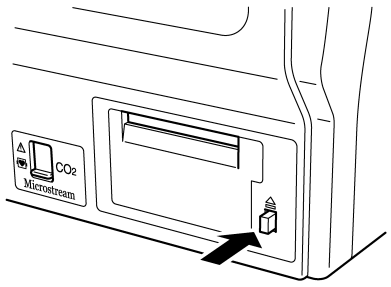
For the alarm recording, number of recording waveforms, recording duration, alarm factor can be set.
Refer to “4. Monitoring Setup　Alarm Recording” for details

For the periodic recording, number of recording waveforms, recording duration, recording intervals can be set.
Refer to “4. Monitoring Setup　Periodic Recording” for details.

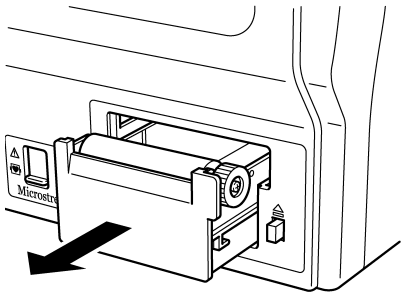
The monitoring data of the patient such as graphic trend and tabular trend can be recorded.
Refer to sections on graphic trend and tabular trend in “7. Function”.

To Install the Paper

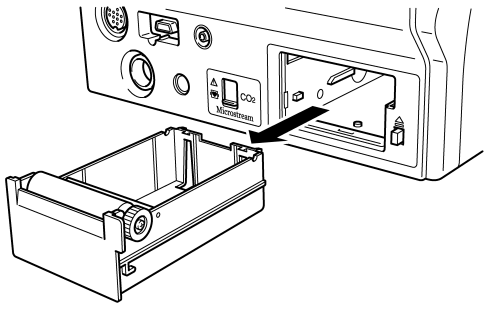
1. **Press the button located at the right side of the recorder magazine.**



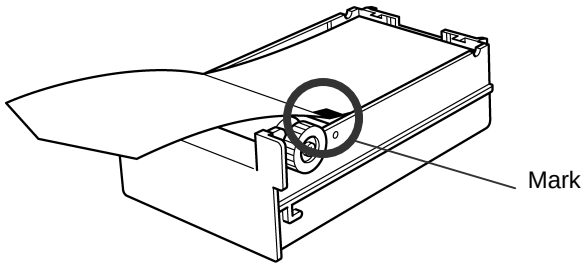
2. **The magazine will come out.**



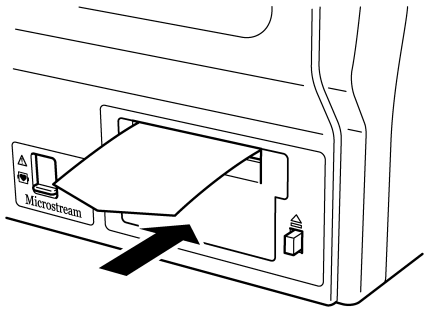
3. **Pull out the magazine from the monitor.**



4. **Set the recording paper so that the mark printed on each paper comes to the right.**



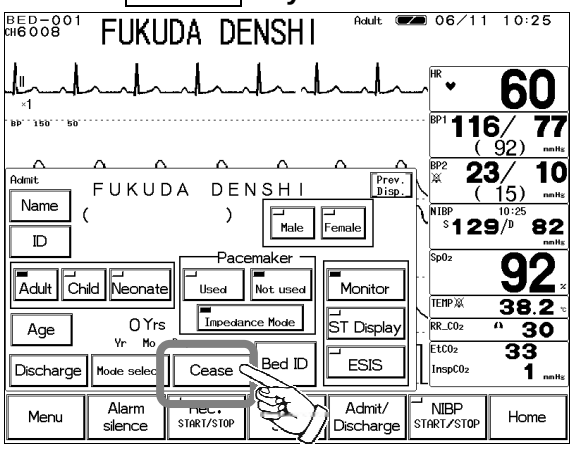
5. **Place the magazine back into the monitor. Push in until it locks into place with a click sound.**



To Suspend Monitoring

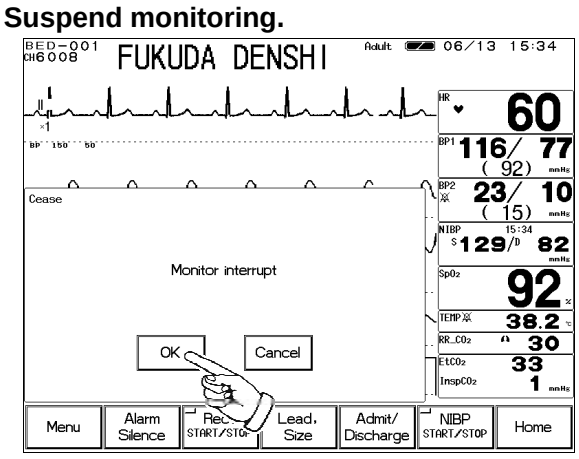
When not monitoring for a while, turning OFF the power will erase the recall data, ST measurement, OCRG data.
However, using the cease monitoring function allows suspension of data measurement, alarm generation, automatic measurement, automatic recording without erasing the data or setup details.

1. Press the [Cease] key on the admit / discharge menu.



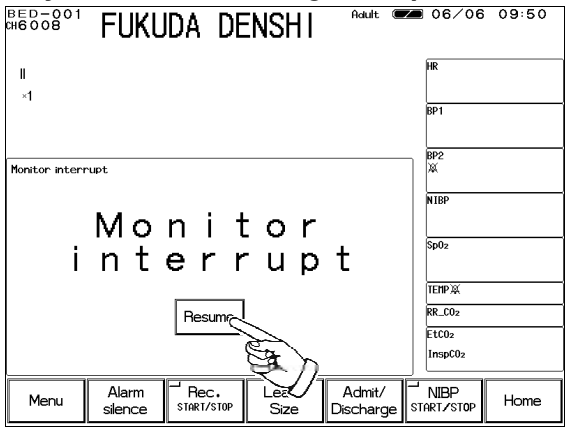
Press the [Menu] → [Admit / Discharge] → [Cease] key.

2. Suspend monitoring.



Pressing the [OK] key on the confirmation display will interrupt monitoring.
Pressing the [Cancel] key will return to the previous display.

3. Verify that the monitoring is suspended.



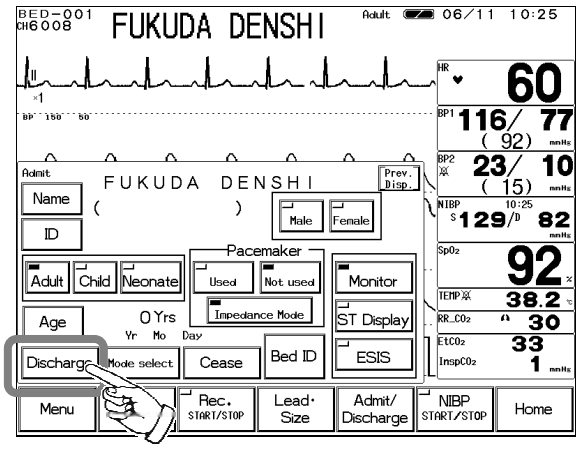
The [Resume] key will be displayed on the home display. On the home display, numeric data and waveform display will be ceased, and all the key operation except the [Resume] key will become ineffective.

NOTE	The telemetry transmission will cease when monitoring is suspended. (for DS-7141, DS-7101LT) Note that the square wave will be displayed on the central monitor indicating the too far condition of the telemetry.

Discharging Procedure

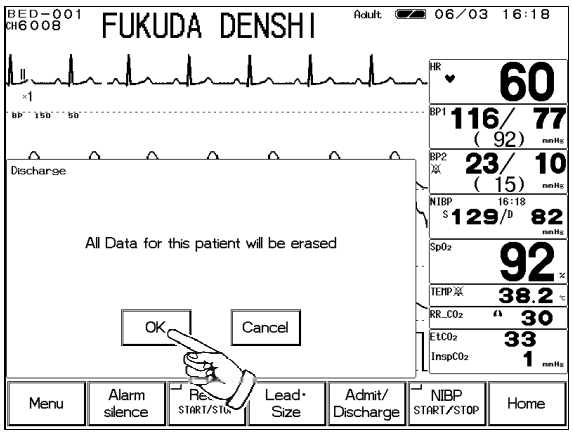
This procedure will erase the past data, such as patient name, ID, age, tabular / graphic trend, and recall.

1. Press the [Discharge] key on the admit / discharge menu.



Press the [Menu] → [Admit / Discharge] → [Discharge] key.

2. Perform discharge procedure.



Pressing the [OK] key on the confirmation display will discharge the patient.
Pressing the [Cancel] key will return to the previous display.

— Operation Flow —

The operation flow of this system is as follows.

【Menu】

- Admit /Discharge
  - Patient Name / ID / Sex
  - Patient Type (Adult / Child / Neonate)
  - Age
  - Discharge
  - Mode Selection
  - Cease Monitor
  - Room / Bed ID
  - Pacemaker
  - Filter Mode
- Parameter Setup — Zero Balance
- Graphic Trend
- Tabular Trend
- NIBP List
- Recall
- ST Display
  - OCRG
  - Alarm Setup
  - Volume Setup
  - Display Configuration
  - Night Mode
  - Other Bed

【System Configuration】

- Night Mode Setup
- Record Setup
- Sweep Speed
- Brightness Setup
- IC Card
- Color Setup
- Telemetry Waveform Setup

【Preset】

- Alarm Mode Setup
- Hospital Setup
- Ward Setup
- Monitor Setup
- Display Mode Setup
- Test Menu

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