

Copyright

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Note

- ❑ Quick operation guide serves as a convenient way for you to master the basic functional operation of this product. Please refer to the product instruction manual for detailed instructions.
- ❑ Please carefully read and understand the contents of the product instruction manual before installing and using this product to ensure the correct use of this product and to ensure the safety of patients and operators.
- ❑ All illustrations provided herein are for reference only. The menus, options, values and functions shown in the illustrations may be not exactly identical to what you see on the monitor. If you have any doubt, please contact our company.
- ❑ The content of this quick operation guide is subject to changes without prior notice. All rights reserved by Shenzhen Comen Medical Instruments CO.,Ltd.

Product Introduction



Front View

① Alarm indicator: emitting light of different colors according to different alarm levels.

② Logo: COMEN.

③ Keys:

■ Alarm reset key

■ Freeze/unfreeze key

■ Record/stop key: press this key to start a real-time recording.

■ TOCO Reset key

■ Main menu key

④ Power on/off key: press this key to switch on/off the monitor.

⑤ Paper compartment: printing paper is put here.

⑥ Monitor model

⑦ Screen: 5.6-inch tiltable and foldable screen to display waveforms, menus, alarms and various parameters and data.

⑧ Indicator

■ AC indicator

On: the monitor is powered by AC supply

■

Off: the monitor is not connected to AC power.

■ battery indicator

On: the monitor is powered by the battery

■

Off: the monitor is not powered by the battery

■ battery charging indicator

On: the battery is being charged

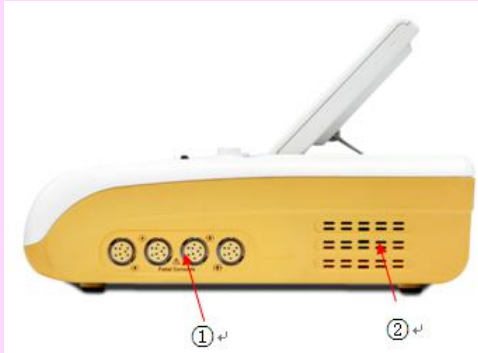
■

Off: The battery is fully charged.

⑨ Knob: turn this knob to select menu items or change values.

⑩ Paper compartment lock: lock/unlock the compartment door.

Product Introduction



Right View

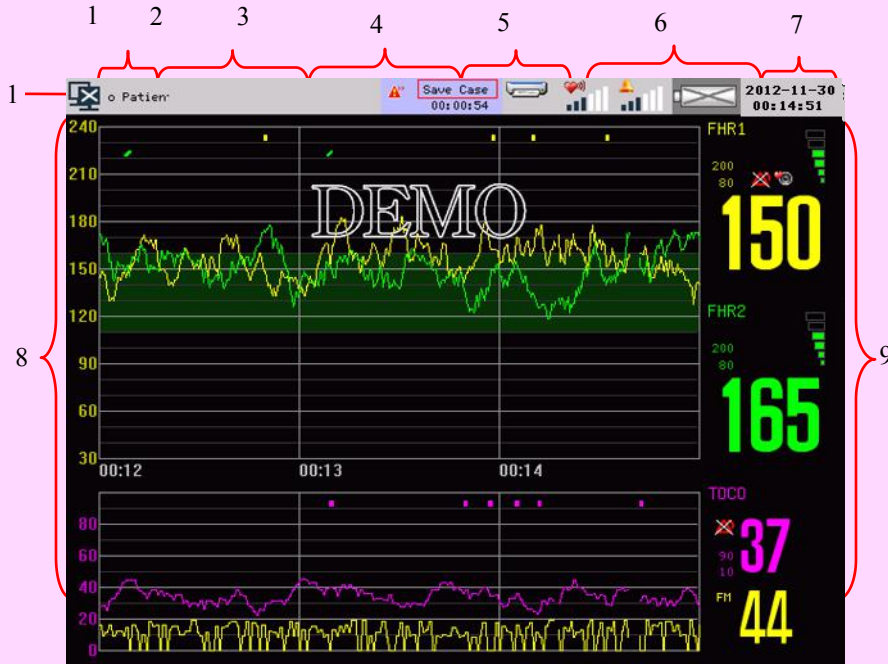
1. Interfaces: including four sockets with the same definition, used as Fetal Heart Rate (FHR) socket 1, FHR socket 2, socket of fetal movement marker sensor and TOCO socket.
2. Loudspeaker: loudspeaker for fetal heartbeat.



Rear View

1. Supporting shaft: to support the display.
2. USB port
3. Network port: for connection to the network.
4. Handle: you can hold the handle to move the monitor.
5. Power socket: to connect with the power supply
6. Equipotential terminal: to connect with equipotential connector.

On-screen Display




Main screen

1. Network Connection Icon, Select the network connection icon to directly access [NETWORK SET] menu.
2. Patient information area, select here to directly access [PATIENT INFO] menu.
3. Technical alarm message area
4. Physiological alarm message area, select here to directly access [ALARM RECALL] window.
5. Timed monitoring information area, Click here to directly access [TIMER] menu.
6. Icons area, Printer icon, FHR volume icon, Alarm volume icon, Battery icon.
7. System time
8. Waveform area
9. Parameter area

It features a 5.6 inches display and can be operated with both keys and control knob.

Basic Operations

Using the Main Menu

Select the  on-screen key to access [MAIN MENU] and perform operations and settings.

Setting the system time

1. Select the system time area to enter the [Date time Setup] menu;
2. Or access [Main Menu] → [Monitor Setup] → [Time Setup];
Set the system time according to your local time.



Changing System Language

1. Access [Main Menu] → [Maintain] and enter the password;
2. Select [Language] to select the required system language.


Setting the Minimum Alarm Volume

1. Enter [Main Menu] → [Maintain] (Maintenance) and input the password;
2. Enter [Alarm Setup] → [Min. Alm Volume] to set the minimum alarm volume (range: 0-5).

Setting Alarm Volume

1. Enter [Main Menu] → [Option Setup] → [Alm Vol] (Alarm Volume) to set the alarm volume (range: X-6, where X is the minimum alarm volume). 
2. Select the alarm volume icon  to set the alarm volume (range: X-6, where X is the minimum alarm volume).


FHR Volume Setup

1. Enter [Main Menu] → [Option Setup] → [FHR Vol] (FHR volume) to set up FHR volume;
2. Select FHR volume in the pop-up list (options: 0, 1, 2, 3, 4, 5, 6).
When it is set to 0, the FHR volume icon changes to 

Key Volume Setup

1. Enter [Main Menu] → [Option Setup];
2. Select [Key Vol] (Key Volume) to adjust it (options: 0, 1, 2, 3, 4, 5, 6).

Print setup

1. Enter [Main Menu] → [Monitor Setup] → [Print Setup];
2. Or select print icon  on icon area.

Basic Operations

Alarm Limit

You can set up the alarm limits for all alarm levels with the same method. Here FHR1 is taken as an example:

1. Select the FHR1 parameter area;
2. Select [FHR1 Alarm Setup] in the pop-up [FHR1 Setup] window to enter the FHR1 alarm setup menu

Alarm Delay

1. Enter [Main Menu]→ [Maintain] and input the password;
2. Enter [Alarm Setup];
3. Select [Alarm Delay Time] and select an appropriate delay time on the pop-up menu.

Patient Management

1. Select patient information area or select [Patient Management] on-screen key.
2. In the pop-up menu, go to admit the patient, modify the patient information and discharge the patient .

Changing screens

1. Select [Screens] on-screen key;
2. Or access [Main Menu] and select [Screens]

How to save user default settings:

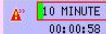
1. Access [Main Menu], select [Maintain] and enter the password;

1. Select [Save Current As User Config] to save current settings.

How to use factory adult/pediatric/neonate default settings:

1. Access [Main Menu]→[Monitor Setup] →[Restore Default Configuration];
2. Select [Adopt Factory Default Adu Config], [Adopt Factory Default Ped Config] or [Adopt Factory Default Neo Config], the alarm limit will restore to the factory default settings.

How to start timed monitoring

1. Select the timed monitoring information area on the screen ,such as .
2. Or select [Timed Monitor] on-screen key;
3. Enter the [Timed Monitor] menu to set the related parameters.

How to select score:

1. Enter [Main Menu] → [Monitor Setup] → [Print Setup];
2. Or select print icon on icon area.
3. Select [Score Select] to show the scores on the case report.
4. Select [Score Criterion] to select scoring criterion you use (options: [KREBS], [Fischer], [Advanced Fischer], [NST]).

Printing

Changing record paper:



1. Unlock the paper compartment with your right hand and open the compartment door outwards;
2. Put new record paper into paper slot with the grid side facing up and top of the paper (210) toward the left of the monitor;
3. Pull the paper through top of the paper roller until it reaches out of the opening, and put the paper upright;
4. Press down the door. Make sure the door is properly locked.

Printing

Real-time Printing

Real-time printing means the printing triggered by pressing the print key on the front panel during real-time monitoring.

How to print fetal waveform during real-time monitoring:

1. During real-time monitoring, press the print key on the front panel and enter the [Patient Info & Fischer Grade] window;
2. Confirm the patient information and score results and select [Confirm]. The monitor starts to print the fetal waveform according to the speed set in [Real Speed] and the time set in [Real Time].
3. To stop printing during printing process, just press the print key on the front panel or select the [Print] on-screen key. If [Report] is set to [ON], the monitor will output the score report immediately and then stop printing; if [Report] is set to [OFF], the monitor will stop printing immediately.

How to print the fetal waveform under frozen waveform status:

1. Under frozen waveform status, press the print key on the front panel and enter the [Patient Info & Fischer Grade] window;
2. Confirm the patient information and score results and select [Confirm]. The monitor will start to print the frozen fetal waveform from the very left waveform on current screen according to the time length set in [Freeze Time].
3. If the [Report] is set to [ON], the score report will be printed after frozen fetal waveform.

Stored Patient Case Printing:

Stored patient case printing means the printing triggered by pressing the print key on the front panel and enter patient case review interface.

How to print stored patient case:

1. Access [Case List] window; select a certain patient case and enter [Patient Review] window;
2. Select [Load] and enter the patient case review window;
3. Press the print key on the front panel or select the [Print] on-screen key and enter the [Patient Info & Fischer Grade] window;
4. Confirm the patient information and score results and select [Confirm]. The monitor will start to print the fetal waveform from the very left waveform on current screen according to the time length set in [Freeze Time].

Battery

The monitor is equipped with a built-in rechargeable battery. When an AC power supply is connected, the battery is charged automatically until it is fully charged. In the event of unexpected power outage, the system automatically uses the battery to supply power, thus to avoid interruption of device operation. After grid power supply is cut off, the battery indicator turns on.

To understand the battery icon:



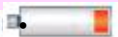
indicating the battery is fully charged.



indicating moderate battery power.



indicating low battery power.



indicating critically low battery power, please charge the battery immediately.



indicating no battery installed or damaged battery.