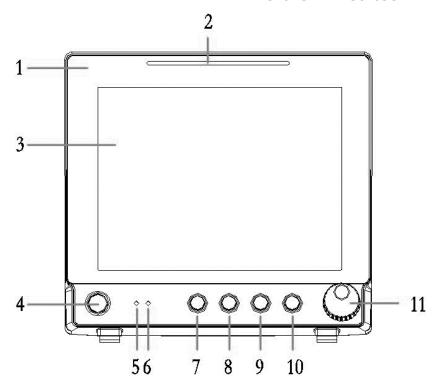
STANDARD OPERATING PROCEDURE (SOP)



Northern Patient monitor

-Northern Meditec





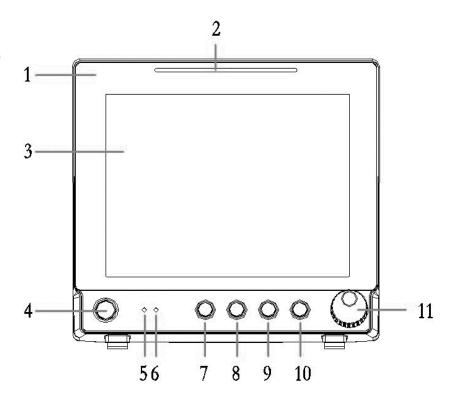




Appearance Introduction

Front view

- 1. Logo.
- 2. Alarm light
- 3. Screen
- 4. Power button(press for 3 sec to swtich off/on)
- 5. AC power inducator
- 6. Battery indicator
- 7. Silence Key
- 8. NIBP measurement start/stop key
- 9. Freeze key
- 10. Print key
- 11. Shuttle



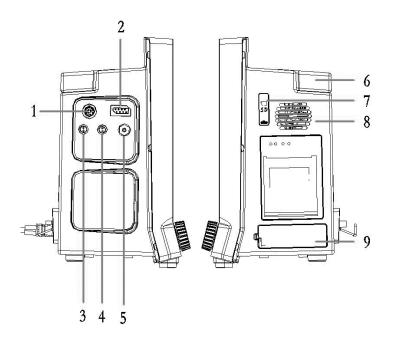




Appearance Introduction

Side view

- 1. ECG—ECG cable interface (color coding accessory)
- 2. SpO2—SpO2 cable interface
- 3. T1—Temperature probe interface
- 4. T2 Temperature probe interface
- 5. NIBP ——NIBP cuff interface
- 6. Movable handle
- 7. SD card slot
- 8. Fan outlet
- 9. Battery cover



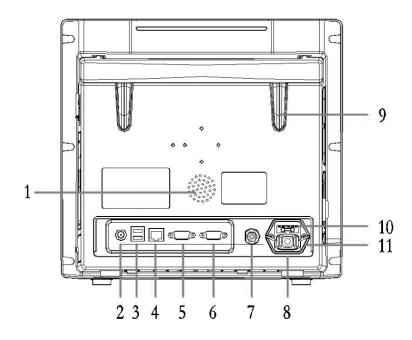




Appearance Introduction

Rear view

- 1. Speaker holes
- 2. Auxiliary output interface (nurse call, unrealized)
- 3. USB interfaces(2)
- 4. Network interface
- 5. Signal input and output interface;
- 6. Display interface;
- 7. Equipotential terminal;
- 8. Power cord retaining hook
- 9. Hook
- 10. Fuse
- 11. AC power socket

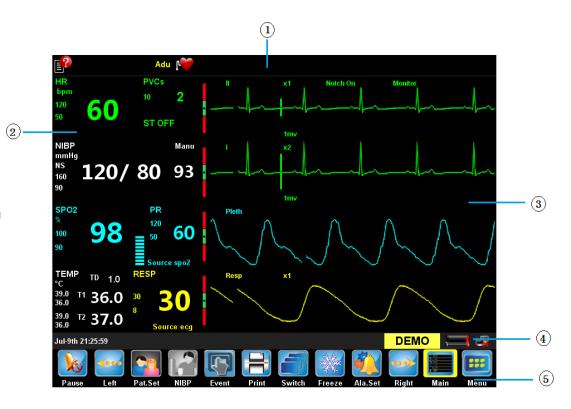






Display

- 1. Introduction of info area
- 2. Introduction of parameter area
- 3. Introduction of waveform area
- 4. Introduction of info tip area
- 5. Introduction of smart hotkey area







Before Operation

Environmental Requirements			
Working environment	Ambient temperature range	5°C~40°C	
	Relative humidity range	≤80%	
	Atmospheric pressure range	86kPa-106kPa	
Supply voltage requirement	Supply voltage	a.c.100V~240V	
	Power frequency	50Hz/60Hz	
	Input power	FUSE 40VA-60VA	
Transportation	Prevent severe shock, vibration, rain and snow splashing during transport.		
Storage	The packaged monitor should be stored in well-ventilated room with ambient temperature -20°C~+40°C, relative humidity lower than 80%, atmospheric pressure 50kPa~106kPa, and without corrosive gases.		





Starting Operation

Press the power button for 3 sec to shut on/down.

Power button



** 60 ** 20 ** 60 ** 98 ** 60 ** 120 ** 80 93 ** 120 ** 80 93 ** 120 ** 80 93 ** 120 ** 80 93 ** 120 ** 80 93 ** 120 ** 80 93 ** 120 ** 80 93 ** 120 ** 80 93 ** 120 ** 80 93 ** 120 ** 80 93 ** 120 ** 80 93 ** 120 ** 80 93 ** 120 ** 1





Using Menu

Close the Menu: 1. user can click the key to close the window;

2. user can click other place out of the window, to close the window;

Clicking the key "close the menu" will enter the previous window;

Clicking other place out of the window will directly exit to home page







Setting Numbers

Example:

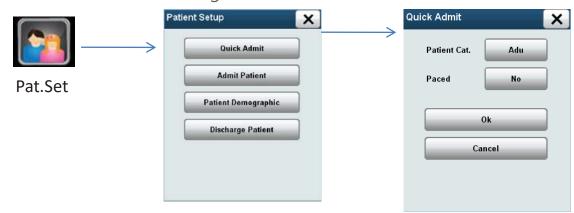
- if setting the NIBP low limit to 68, the user needs to Click the number area again to assure the number after adjustment.
- this rule is applied to every parameter number setting

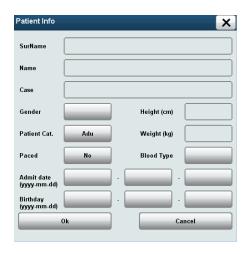






Patient Information Management





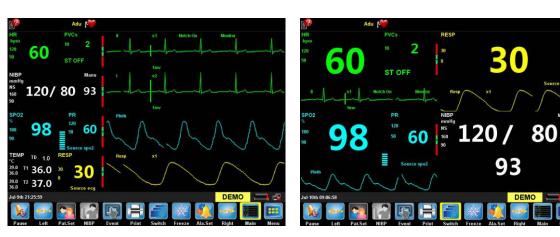




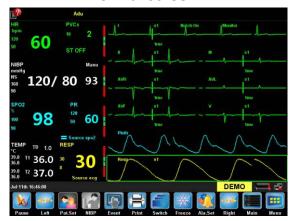
User Interface



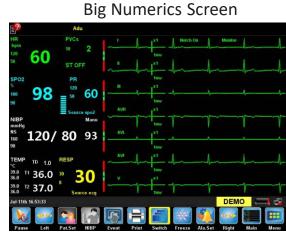
Switch



Normal screen



ECG 7-Lead Half-Screen



ECG 7-Lead Full-Screen

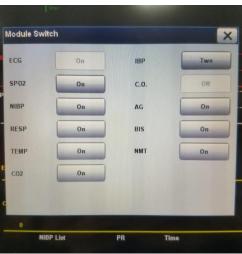




Module Switch

Select "Module Switch" in "Menu" to Adjust parameters display









Alarm



Ala.Set

Alarm Level	Low Level	Medium Level	High Level
Light	Yellow, lit without flashing	Yellow, slow flashes	Red, fast flashes
Audible	Веер	Beep -beep -beep	Beep -beep -beep beep -beep beep -beep beep-beep
Info	*	**	***





ECG

Lead Name&Corresponding Colar

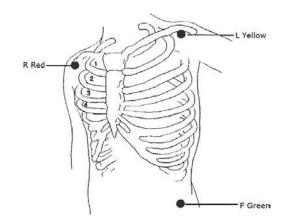
European Standard(IEC)		American Standard(AHA)	
Lead Name	Color	Lead Name	Colar
R	Red	RA	
L		LA	Black
F	Green	LL	Red
N	Black	RL	Green
С		V	Brown

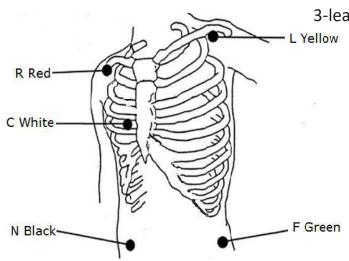




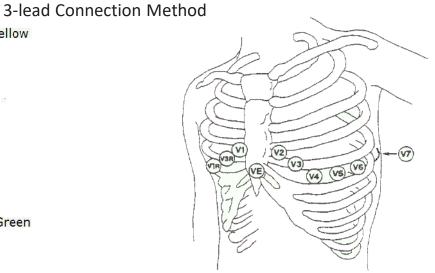
ECG

3-Lead &5-Lead









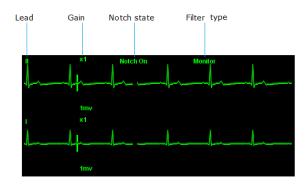
7-3 Chest Lead Electrode Placement for 5-lead

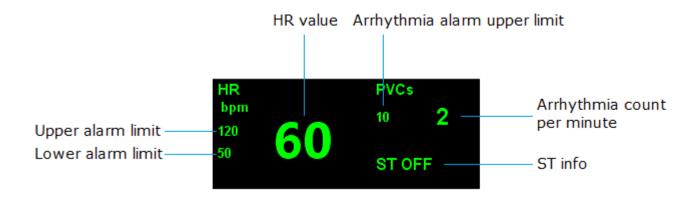




ECG

Display









ECG

- ECG Setup
- Directly click the ECG waveform area or ECG Parameter area to set up all parameters related to ECG;

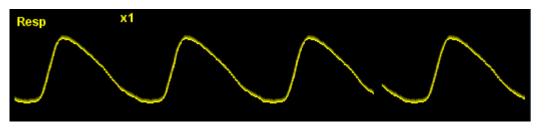




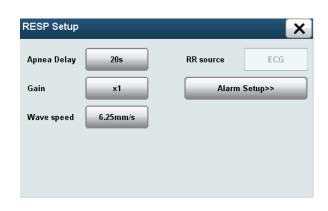


Resperation

- Display
- Setup
- Click the ECG parameter zone or ECG wave area, which is shown below:



Resp Wave





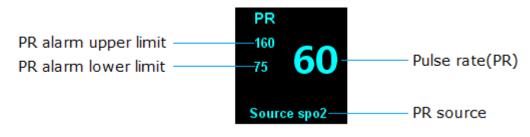
Resp Parameter Area





PR

- Display
- The color of PR parameter area is same as Spo2 Parameter color if PR source;



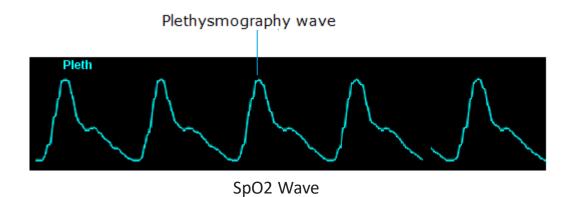
PR Parameter Area

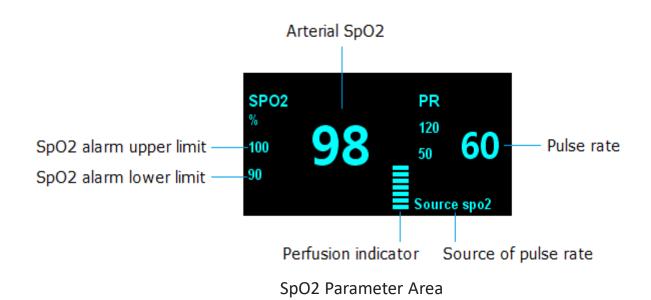




SpO2

Display



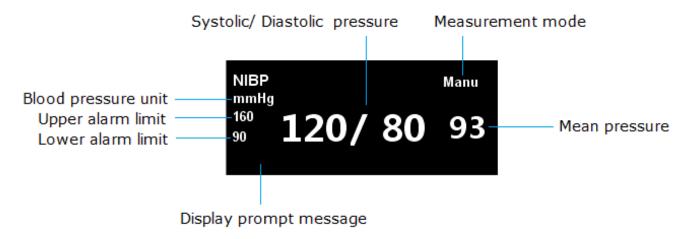




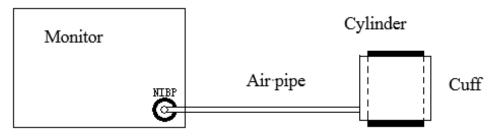


NIBP





NIBP Paraemeter Area



NIBP Leakage Test Connection Diagram



Temp(2 Types, compatible)

- Normal Tpye:
- Two channels (T1&T2), shown as below:

Temperature unit	TEMP TD 0.1—	—— Temperature difference
Temperature alarm limits (T1)	39.0 T1 36.5	Temperature (T1)
Temperature alarm limits (T2)	39.0 T2 36.6	Temperature (T2)





Temp

- Quick Temp
- Features:

1 sec to test temp; transmit data to Central Monitor System Procedure:



Enter "Menu",click "Monitor Tpye" to choose Spot Check



Accessory:Ear Thermometer





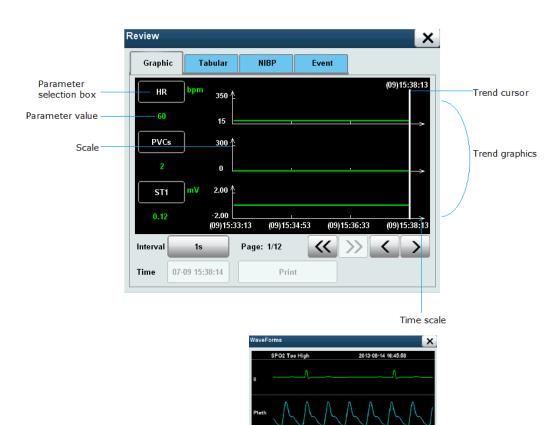
Review

Features:

Graphic & Tabular printing are in Review window

With SD card

- 48hours Holographic waveform
- 1000 NIBP measurements
- 200 alarm events
- 120 hours long trend
- 60 Mins short trend







Battery



Battery full charged (3-4 hours uninterrupted working time)



Battery not full



Battery power low



Battery not installed



Battery being charged





Maintenance

- Password on patient monitor:
- Demo: 8888
- User Maintenance: Contact Zone Medical

For other Maintenance, please refer to User's Manual



