Patient Monitor FDA and CE Certificated

Catalogue

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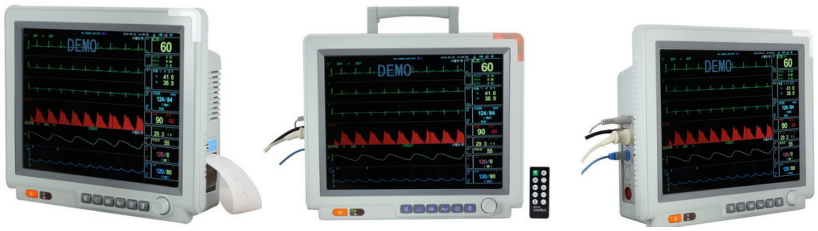
1. WH-3L Patient Monitor



Standard configuration: ECG, HR, PR, SpO2, OxyCRG diagram, ST analysis, Arrhythmia analysis, RESP*2 (RA-LL impedance and nasal cavity), NIBP (with venous punch), TEMP*2(surface and rectal type), Drug dose calculation and lead-acid battery, remote control.

Optional configuration:

Wireless networking function to patient monitor;
Inside placed thermal-sensitive built-in printer;
IBP function (Include 1 pressure sensor and 1 adaptable cable);
ETCO2 function module（Respironics-main stream/side stream)-plug&play;
Cardiac Output
Wall Mount for patient monitor ;
Trolly for patient monitor;
12 volts Power supply for ambulance

Physical Character

1. Displayer ： 15" color TFT LCD screen with multi-channel waveform display.
2. Battery: Rechargeable high-energy built-in battery
3. Advanced streamline outline design, portable, compact, lightweight
4. Operating menu with multi-language interface selection: English, Spanish, Portuguese, Chinese, Arabic, Russian, Italian, etc.
5. Easy operation with user friendly menu structure design and rotary dial
6. Remote control ability for long distance operation.
7. Against & eliminate ESU interference & defibrillation, no need to disconnect the monitor from the patient in process of defibrillating.
8. Three-application mode: monitoring, diagnosis, operating.
9. WAN communication function to network with central monitoring system and make long-distance monitoring, diagnosis, maintenance and software upgrade possible
10. Optional built-in wireless networking function
11. 360 hours data storage.
12. With Drug dose calculation function
13. Intelligent audio and visual comprehensive alarm
14. In-hospital applications include emergency room’s pre and post operative care, ICU, Operation room/theater, ambulatory surgery, intermediate care/step down units, labor and delivery, and hospital-based special procedure areas.
15. Suitable for use in physicians’ offices, clinics, outpatient surgical centers, extended care facilities and other patient care areas, which of require affordable monitoring
16. Suitable for adult, pediatrics, neonates

Technical Parameter

ECG

Input: 5 wires ECG cable

Lead section: Ⅰ,Ⅱ,Ⅲ/ aVR, aVL, aVF/ V

Gain（mm/mV）: 1/4,1/2,1,2,4

Sweep speed(mm/sec): 6.25,12.5, 25, 50

Heart rate range: 15-300 BPM

Heart rate accuracy: ± 1 %

ST segment deviation analysis

NIBP (Non-invasive blood pressure) ()

Measurement type : adult, pediatric, neonatal

Measurement range: Systolic 4.0 - 37.0 kPa

Diastolic 1.3 - 33.0 kPa

Mean 2.6 - 35.0 kPa

Accuracy : ± 0.4 kPa or 5 %

Resolution: 0.1 kPa

Protection: over pressure

Tourniquet function

Temperature (surface and rectal)

Measurement range: 25.0 – 45.0 ℃

Accuracy: ± 0.1 ℃

Resolution: 0.1 ℃

response time: ≤ 3 min.

Respiration Rate(RA-LL,RA-LA,LL-LA selectable impedance and nasal cavity)

Measurement range: 0 - 120 BPM

Accuracy: ± 1 BPM or 5 %

Resolution: 1 BPM

Power requirements

Input: 100～240 V AC, 50/60Hz

Consumption: ≤ 80VA

Environment

	Operation	Storage
Temperature	0.5 - 40 ℃	-20 - 50 ℃
Relative humidity	≤ 80%	

Safety standard: IEC 60601-1

Quality System: ISO13485: 2003

Pulse Rate

SPO2 measurement range: 0 - 100 %

Resolution: 1 %

Pulse measurement range: 30- 250BPM

Accuracy: ± 2 %

Resolution: 1 BPM

IBP(Invasive blood pressure) (Option)

Measurement range: -1.3~40kPa (-10~300mmHg)

Channel: 4 channel

Transducer sensitivity: 5MV/V/mmHg

Unit display: KPa or mmHg selectable

ETCO2 (main/side stream type) (Option) – Plug&Play

Measurement range:0 – 150 mmHg 0 – 19.7% 0 – 20kpa

(Barometric pressure supplied by Host)

Accuracy: 0- 40 mmHg ± 2mmHg

41-70 mmHg ±5% of reading

71-100mmHg±8% of reading

101-150mmHg±10% of reading

Above 80 breath per minute±12% of reading

*NOTE: Gas temperature at 25 ℃

Sample rate:50ml/min

Response time:< 3 seconds – includes transport time and rise time

Cardiac Output （Option）

Meathod: thermodilution

Measurement range:	CO:0.1-20.0 L/min	
	TB:23 – 43 ℃	
	TI:0 – 27 ℃	
Resolution:	CO:0.1 L/min	
	TI:0.1 ℃	
	TB:0.1 ℃	
Accuracy:	CO: ± 0.2 L/min or ±5%	
	TB: ± 0.2 ℃	
	TI: ± 0.2 ℃	

Parameter output:

Cardiac output Hemodynamics calculation

Accessories for Standard configuration:

1 remote control

1 set of ECG cable

10 pcs of ECG electrode

1 set of NIBP extend cable

1 set of NIBP adult or pediatric or neonate cuff

1 set of RESP nasal cavity pipe

1 set of TEMP surface probe

1 set of TEMP cavity probe

1 set of integrated adult or pediatric or neonate SpO2 sensor

1 set of power supply cable

2. WH-3H Patient Monitor

Standard configuration: ECG, HR, PR, SpO2, OxyCRG diagram, ST analysis, Arrhythmia analysis, RESP*2 (RA-LL impedance and nasal cavity), NIBP (with venous punch), TEMP*2(surface and rectal type), Drug dose calculation and lead-acid battery.

Optional configuration:

Wireless networking function to patient monitor;
Inside placed thermal-sensitive built-in printer;
IBP function (Include 1 pressure sensor and 1 adaptable cable);
ETCo2（Respironics-main stream/side stream）- plug&play;
Cardiac Output
Wall Mount for patient monitor ;
Trolly for patient monitor;
12 volts Power supply for ambulance

Physical Character
1. Displayer: 8.4" color TFT LCD screen with maximum 8-waveform display. 2. Battery: Rechargeable high-energy built-in battery 3. Advanced streamline outline design, portable, compact, lightweight 4. Operating menu with multi-language interface selection: English, Spanish, Portuguese, Chinese, Arabic, Russian, Italian, etc. 5. Easy operation with user friendly menu structure design and rotary dial 6. Against & eliminate ESU interference & defibrillation, no need to disconnect the monitor from the patient in process of defibrillating. 7. Three-application mode: monitoring, diagnosis, operating. 8. WAN communication function to network with central monitoring system and make long-distance monitoring, diagnosis, maintenance and software upgrade possible 9. Optional built-in wireless networking function 10. 360 hours data storage. 11. Intelligent audio and visual comprehensive alarm 12. In-hospital applications include emergency room's pre and post operative care, ICU, Operation room/theater, ambulatory surgery, intermediate care/step down units, labor and delivery, and hospital-based special procedure areas. 13. Suitable for use in physicians' offices, clinics, outpatient surgical centers, extended care facilities and other patient care areas, which of require affordable monitoring 14. Suitable for adult, pediatrics, neonates

Technical Parameter	
ECG Input: 5 wires ECG cable Lead section: Ⅰ,Ⅱ,Ⅲ/ aVR, aVL, aVF/ V Gain（mm/mV）: 1/4,1/2,1,2,4 Sweep speed(mm/sec): 6.25,12.5, 25, 50 Heart rate range: 15-300 BPM Heart rate accuracy: ± 1 % ST segment deviation analysis **NIBP (Non-invasive blood pressure) ()** Measurement type : adult, pediatric, neonatal Measurement range: Systolic 4.0 - 37.0 kPa Diastolic 1.3 - 33.0 kPa Mean 2.6 - 35.0 kPa Accuracy : ± 0.4 kPa or 5 % Resolution: 0.1 kPa Protection: over pressure Tourniquet function **Temperature (surface and rectal)** Measurement range: 25.0 – 45.0 ℃ Accuracy: ± 0.1 ℃ Resolution: 0.1 ℃ response time: ≤ 3 min. **Respiration Rate(**RA-LL,RA-LA,LL-LA selectable impedance and nasal cavity) Measurement range: 0 - 120 BPM Accuracy: ± 1 BPM or 5 % Resolution: 1 BPM **Power requirements** Input: 100～240 V AC, 50/60Hz Consumption: ≤ 80VA **Environment** Operation Storage Temperature 0.5 - 40 ℃ -20 - 50 ℃ Relative humidity ≤ 80%	**Pulse Rate** SPO2 measurement range: 0 - 100 % Resolution: 1 % Pulse measurement range: 30- 250BPM Accuracy: ± 2 % Resolution: 1 BPM **IBP(Invasive blood pressure) (Option)** Measurement range: -1.3~40kPa (-10~300mmHg) Channel: 4 channel Transducer sensitivity: 5MV/V/mmHg Unit display: KPa or mmHg selectable **ETCO2 (main/side stream type) (Option) – Plug&Play** Measurement range:0 – 150 mmHg 0 – 19.7% 0 – 20kpa (Barometric pressure supplied by Host) Accuracy: 0- 40 mmHg ± 2mmHg 41-70 mmHg ±5% of reading 71-100mmHg±8% of reading 101-150mmHg±10% of reading Above 80 breath per minute±12% of reading *NOTE: Gas temperature at 25 ℃ Sample rate:50ml/min Response time:< 3 seconds – includes transport time and rise time **Cardiac Output （Option）** Meathod: thermodilution Measurement range: CO:0.1-20.0 L/min TB:23 – 43 ℃ TI:0 – 27 ℃ Resolution: CO:0.1 L/min TI:0.1 ℃ TB:0.1 ℃ Accuracy: CO: ± 0.2 L/min or ±5% TB: ± 0.2 ℃ TI: ± 0.2 ℃ Parameter output: Cardiac output Hemodynamics calculation

	Safety standard: IEC 60601-1 **Quality System**: ISO13485: 2003 **CE 0434/FDA 510(k) approved**

Accessories for Standard configuration:

1 set of ECG cable
10 pcs of ECG electrode
1 set of NIBP extend cable
1 set of NIBP adult or pediatric or neonate cuff
1 set of RESP nasal cavity pipe
1 set of TEMP surface probe
1 set of TEMP cavity probe
1 set of integrated adult or pediatric or neonate SpO2 sensor
1 set of power supply cable

3. WH-3G Patient Monitor

Standard configuration: ECG, HR, PR, SpO2, OxyCRG diagram, ST analysis, Arrhythmia analysis, RESP*2 (RA-LL impedance and nasal cavity), NIBP (with venous punch), TEMP*2(surface and rectal type), Drug dose calculation and lead-acid battery

Optional configuration:

Wireless networking function to patient monitor;
Inside placed thermal-sensitive built-in printer;
IBP function (Include 1 pressure sensor and 1 adaptable cable);
ETCO2 function module（Respironics-main stream/side stream)-plug&play;
Cardiac Output
Wall Mount for patient monitor ;
Trolly for patient monitor;
12 volts Power supply for ambulance

Physical Character
1. Displayer ： 10.4" color TFT LCD screen with maximum 7-waveform display. Adjusting of lightness continuously make patient more comfortable in midnight 2. Battery: Rechargeable high-energy built-in battery 3. Advanced streamline outline design, portable, compact, lightweight 4. Operating menu with multi-language interface selection: English, Spanish, Portuguese, Chinese, etc. 5. Easy operation with user friendly menu structure design and rotary dial 6. Against & eliminate electro surgical interference & electric knife and defibrillation and no need to disconnect the monitor from the patient in process of defibrillating. 7. Three-application mode: monitoring, diagnosis, operating. 8. WAN communication function to network with central monitoring system and make long-distance monitoring, diagnosis, maintenance and software upgrade possible 9. Optional built-in wireless networking function 10. 360 hours data storage. 11. Intelligent audio and visual comprehensive alarm 12. In-hospital applications include emergency room’s pre and post operative care, ICU, Operation room/theater, ambulatory surgery, intermediate care/step down units, labor and delivery, and hospital-based special procedure areas. 13. Suitable for use in physicians’ offices, clinics, outpatient surgical centers, extended

care facilities and other patient care areas, which of require affordable monitoring

14. Suitable for adult, pediatrics, neonates

Technical Parameter	
ECG Input: 5 wires ECG cable Lead section: Ⅰ, Ⅱ, Ⅲ/ aVR, aVL, aVF/ V Gain（mm/mV）: 1/4,1/2,1,2,4 Sweep speed(mm/sec): 6.25,12.5, 25, 50 Heart rate range: 15-300 BPM Heart rate accuracy: ± 1 % ST segment deviation analysis **NIBP (Non-invasive blood pressure) ()** Measurement type : adult, pediatric, neonatal Measurement range: Systolic 4.0 - 37.0 kPa Diastolic 1.3 - 33.0 kPa Mean 2.6 - 35.0 kPa Accuracy : ± 0.4 kPa or 5 % Resolution: 0.1 kPa Protection: over pressure Tourniquet function **Temperature (surface and rectal)** Measurement range: 25.0 – 45.0 ℃ Accuracy: ± 0.1 ℃ Resolution: 0.1 ℃ response time: ≤ 3 min. **Respiration Rate(**RA-LL,RA-LA,LL-LA selectable impedance and nasal cavity) Measurement range: 0 - 120 BPM Accuracy: ± 1 BPM or 5 % Resolution: 1 BPM **Power requirements** Input: 100～240 V AC, 50/60Hz Consumption: ≤ 80VA **Environment** Operation Storage Temperature	**Pulse Rate** SPO2 measurement range: 0 - 100 % Resolution: 1 % Pulse measurement range: 30- 250BPM Accuracy: ± 2 % Resolution: 1 BPM **IBP(Invasive blood pressure) (Option)** Measurement range: -1.3~40kPa (-10~300mmHg) Channel: 4 channel Transducer sensitivity: 5MV/V/mmHg Unit display: KPa or mmHg selectable **ETCO2 (main/side stream type) (Option) – Plug&Play** Measurement range:0 – 150 mmHg 0 – 19.7% 0 – 20kpa (Barometric pressure supplied by Host) Accuracy: 0- 40 mmHg ± 2mmHg 41-70 mmHg ±5% of reading 71-100mmHg±8% of reading 101-150mmHg±10% of reading Above 80 breath per minute±12% of reading *NOTE: Gas temperature at 25 ℃ Sample rate:50ml/min Response time:< 3 seconds – includes transport time and rise time **Cardiac Output （Option）** Meathod: thermodilution Measurement range: CO:0.1-20.0 L/min TB:23 – 43 ℃ TI:0 – 27 ℃ Resolution: CO:0.1 L/min TI:0.1 ℃ TB:0.1 ℃ Accuracy: CO: ± 0.2 L/min or ±5% TB: ± 0.2 ℃ TI: ± 0.2 ℃

0.5 - 40 ℃ -20 - 50 ℃ Relative humidity ≤ 80%	Parameter output: Cardiac output Hemodynamics calculation **Safety standard:** IEC 60601-1 **Quality System**: ISO13485: 2003 **CE 0434/FDA 510(k) approved**

Accessories for Standard configuration:

1 set of ECG cable
10 pcs of ECG electrode
1 set of NIBP extend cable
1 set of NIBP adult cuff
1 set of RESP nasal cavity pipe
1 set of TEMP surface probe
1 set of TEMP cavity probe
1 set of integrated adult SpO2 sensor
1 set of power supply cable

4. WH-3F Patient Monitor

Standard configuration: ECG, HR, PR, SpO2, OxyCRG diagram, ST analysis, Arrhythmia analysis, RESP*2 (RA-LL impedance and nasal cavity), NIBP (with venous punch), TEMP, Drug dose calculation and lead-acid battery.

Optional configuration:

Wireless networking function to patient monitor;
Inside placed thermal-sensitive built-in printer;
ETCO2 function module（Respironics-main stream/side stream)-plug&play;
Wall Mount for patient monitor ;
Trolly for patient monitor;
12 volts Power supply for ambulance

Physical Character
1. Displayer ： 10.4" color TFT LCD screen with maximum 7-waveform display. 2. Battery: Rechargeable high-energy built-in battery 3. Advanced streamline outline design, portable, compact, lightweight 4. Operating menu with multi-language interface selection: English, French, Spanish, Portuguese, Chinese, etc. 5. Easy operation with user friendly menu structure design and rotary dial 6. Against electro surgical interference & electric knife and defibrillation and no need to disconnect the monitor from the patient in process of defibrillating. 7. Three-application mode: monitoring, diagnosis, operating. 8. WAN communication function to network with central monitoring system and make long-distance monitoring, diagnosis, maintenance and software upgrade possible 9. Optional built-in wireless networking function 10. 360 hours data storage. 11. Intelligent audio and visual comprehensive alarm 12. In-hospital applications include emergency pre and post operative care, ambulatory surgery, intermediate care/step down units, labor and delivery, and hospital-based special procedure areas. 13. Suitable for use in physicians' offices, clinics, outpatient surgical centers, extended care facilities and other patient care areas, which of require affordable monitoring **14.** Suitable for adult, pediatrics, neonates

Technical Parameter	
ECG Input: 5 wires ECG cable Lead section: Ⅰ, Ⅱ, Ⅲ/ aVR, aVL, aVF/ V Gain（mm/mV）: 1/4,1/2,1,2,4 Sweep speed(mm/sec): 6.25,12.5, 25, 50 Heart rate range: 15-300 BPM Heart rate accuracy: ± 1 % ST segment deviation analysis **NIBP (Non-invasive blood pressure) ()** Measurement type : adult, pediatric, neonatal Measurement range: Systolic 4.0 - 37.0 kPa Diastolic 1.3 - 33.0 kPa Mean 2.6 - 35.0 kPa Accuracy : ± 0.4 kPa or 5 % Resolution: 0.1 kPa Protection: over pressure Tourniquet function **Temperature (surface and rectal)** Measurement range: 25.0 – 45.0 ℃ Accuracy: ± 0.1 ℃ Resolution: 0.1 ℃ response time: ≤ 3 min. **Respiration Rate(**RA-LL,RA-LA,LL-LA selectable impedance and nasal cavity) Measurement range: 0 - 120 BPM Accuracy: ± 1 BPM or 5 % Resolution: 1 BPM **Safety standard:** IEC 60601-1 **Quality System:** ISO13485: 2003 **CE 0434/FDA 510(k) approved**	**Pulse Rate** SPO2 measurement range: 0 - 100 % Resolution: 1 % Pulse measurement range: 30- 250BPM Accuracy: ± 2 % Resolution: 1 BPM **ETCO2 (main/side stream type) (Option) – Plug&Play** Measurement range:0 – 150 mmHg 0 – 19.7% 0 – 20kpa (Barometric pressure supplied by Host) Accuracy: 0- 40 mmHg ± 2mmHg 41-70 mmHg ±5% of reading 71-100mmHg±8% of reading 101-150mmHg±10% of reading Above 80 breath per minute±12% of reading *NOTE: Gas temperature at 25 ℃ Sample rate:50ml/min Response time:< 3 seconds – includes transport time and rise time **Power requirements** Input: 100～240 V AC, 50/60Hz Consumption: ≤ 80VA **Environment** Operation Storage Temperature 0.5 - 40 ℃ -20 - 50 ℃ Relative humidity ≤ 80%

Accessories for Standard configuration:

1 set of ECG cable
10 pcs of ECG electrode
1 set of NIBP extend cable
1 set of NIBP adult cuff
1 set of RESP nasal cavity pipe
1 set of TEMP surface probe
1 set of integrated adult SpO2 sensor
1 set of power supply cable

5. WH-3D Patient Monitor

Standard configuration: ECG, HR, PR, SpO2, OxyCRG diagram, ST analysis, Arrhythmia analysis, RESP*2 (RA-LL impedance and nasal cavity), NIBP (with venous punch), TEMP*2(surface and rectal type), Drug dose calculation and lead-acid battery.

Optional configuration:

Wireless networking function to patient monitor;
Inside placed thermal-sensitive built-in printer;
IBP function (Include 1 pressure sensor and 1 adaptable cable);
ETCO2 function module（Respironics-main stream/side stream)-plug&play;
Cardiac Output
Wall Mount for patient monitor ;
Trolly for patient monitor;
12 volts Power supply for ambulance

Physical Character

1. Displayer ： 12.1" color TFT LCD screen with maximum 8-waveform display.
2. Battery: Rechargeable high-energy built-in battery
3. Advanced streamline outline design, portable, compact, lightweight
4. Operating menu with multi-language interface selection: English, Spanish, Portuguese, Chinese, Arabic, Russian, Italian, etc.
5. Easy operation with user friendly menu structure design and rotary dial
6. Against & eliminate ESU interference & defibrillation, no need to disconnect the monitor from the patient in process of defibrillating.
7. Three-application mode: monitoring, diagnosis, operating.
8. WAN communication function to network with central monitoring system and make long-distance monitoring, diagnosis, maintenance and software upgrade possible
9. Optional built-in wireless networking function
10. 360 hours data storage.
11. Intelligent audio and visual comprehensive alarm
12. In-hospital applications include emergency room’s pre and post operative care, ICU, Operation room/theater, ambulatory surgery, intermediate care/step down units, labor and delivery, and hospital-based special procedure areas.
13. Suitable for use in physicians’ offices, clinics, outpatient surgical centers, extended care facilities and other patient care areas, which of require affordable monitoring

14. Suitable for adult, pediatrics, neonates

Technical Parameter

ECG

Input: 5 wires ECG cable

Lead section: Ⅰ,Ⅱ,Ⅲ/ aVR, aVL, aVF/ V

Gain（mm/mV）: 1/4,1/2,1,2,4

Sweep speed(mm/sec): 6.25,12.5, 25, 50

Heart rate range: 15-300 BPM

Heart rate accuracy: ± 1 %

ST segment deviation analysis

NIBP (Non-invasive blood pressure) ()

Measurement type : adult, pediatric, neonatal

Measurement range: Systolic 4.0 - 37.0 kPa

Diastolic 1.3 - 33.0 kPa

Mean 2.6 - 35.0 kPa

Accuracy : ± 0.4 kPa or 5 %

Resolution: 0.1 kPa

Protection: over pressure

Tourniquet function

Temperature (surface and rectal)

Measurement range: 25.0 – 45.0 ℃

Accuracy: ± 0.1 ℃

Resolution: 0.1 ℃

response time: ≤ 3 min.

Respiration Rate(RA-LL,RA-LA,LL-LA selectable impedance and nasal cavity)

Measurement range: 0 - 120 BPM

Accuracy: ± 1 BPM or 5 %

Resolution: 1 BPM

Power requirements

Input: 100～240 V AC, 50/60Hz

Consumption: ≤ 80VA

Environment

	Operation	Storage
Temperature	0.5 - 40 ℃	-20 - 50 ℃
Relative humidity	≤ 80%	

Pulse Rate

SPO2 measurement range: 0 - 100 %

Resolution: 1 %

Pulse measurement range: 30- 250BPM

Accuracy: ± 2 %

Resolution: 1 BPM

IBP(Invasive blood pressure) (Option)

Measurement range: -1.3~40kPa (-10~300mmHg)

Channel: 4 channel

Transducer sensitivity: 5MV/V/mmHg

Unit display: KPa or mmHg selectable

ETCO2 (main/side stream type) (Option) – Plug&Play

Measurement range:0 – 150 mmHg 0 – 19.7% 0 – 20kpa

(Barometric pressure supplied by Host)

Accuracy: 0- 40 mmHg ± 2mmHg

41-70 mmHg ±5% of reading

71-100mmHg±8% of reading

101-150mmHg±10% of reading

Above 80 breath per minute±12% of reading

*NOTE: Gas temperature at 25 ℃

Sample rate:50ml/min

Response time:< 3 seconds – includes transport time and rise time

Cardiac Output （Option）

Meathod: thermodilution

Measurement range: CO:0.1-20.0 L/min

TB:23 – 43 ℃

TI:0 – 27 ℃

Resolution: CO:0.1 L/min

TI:0.1 ℃

TB:0.1 ℃

Accuracy: CO: ± 0.2 L/min or ±5%

TB: ± 0.2 ℃

TI: ± 0.2 ℃

Parameter output:

Cardiac output Hemodynamics calculation

Safety standard: IEC 60601-1

Quality System: ISO13485: 2003

CE 0434/FDA 510(k) approved

Accessories for Standard configuration:

1 set of ECG cable
10 pcs of ECG electrode
1 set of NIBP extend cable
1 set of NIBP adult or pediatric or neonate cuff
1 set of RESP nasal cavity pipe
1 set of TEMP surface probe
1 set of TEMP cavity probe
1 set of integrated adult or pediatric or neonate SpO2 sensor
1 set of power supply cable

6. WH-3C Patient Monitor

Standard configuration: ECG, HR, PR, SpO2, OxyCRG diagram, ST analysis, Arrhythmia analysis, RESP*2 (RA-LL impedance and nasal cavity), NIBP (with venous punch), TEMP*2(surface and rectal type), Drug dose calculation and lead-acid battery..

Optional configuration:

Wireless networking function to patient monitor;
Inside placed thermal-sensitive built-in printer;
IBP function (Include 1 pressure sensor and 1 adaptable cable);
ETCO2 function module（Respironics:main stream/side stream)-plug&play;
Cardiac Output
Wall Mount for patient monitor ;
Trolly for patient monitor;
12 volts Power supply for ambulance

Physical Character

1. Displayer ：10.4" color TFT LCD screen with maximum 8-waveform display. Adjusting of lightness continuously make patient more comfortable in midnight
2. Battery: Rechargeable high-energy built-in battery
3. Advanced streamline outline design, portable, compact, lightweight
4. Operating menu with multi-language interface selection: English, Spanish, Portuguese, Chinese, etc.
5. Easy operation with user friendly menu structure design and rotary dial
6. Against & eliminate electro surgical interference & electric knife and defibrillation and no need to disconnect the monitor from the patient in process of defibrillating.
7. Three-application mode: monitoring, diagnosis, operating.
8. WAN communication function to network with central monitoring system and make long-distance monitoring, diagnosis, maintenance and software upgrade possible
9. Optional built-in wireless networking function
10. 360 hours data storage.
11. Intelligent audio and visual comprehensive alarm
12. In-hospital applications include emergency room’s pre and post operative care, ICU, Operation room/theater, ambulatory surgery, intermediate care/step down units, labor and delivery, and hospital-based special procedure areas.
13. Suitable for use in physicians’ offices, clinics, outpatient surgical centers, extended care facilities and other patient care areas, which of require affordable monitoring

14. Suitable for adult, pediatrics, neonates

Technical Parameter	
ECG Input: 5 wires ECG cable Lead section: Ⅰ,Ⅱ,Ⅲ/ aVR, aVL, aVF/ V Gain（mm/mV）: 1/4,1/2,1,2,4 Sweep speed(mm/sec): 6.25,12.5, 25, 50 Heart rate range: 15-300 BPM Heart rate accuracy: ± 1 % ST segment deviation analysis **NIBP (Non-invasive blood pressure) ()** Measurement type : adult, pediatric, neonatal Measurement range: Systolic 4.0 - 37.0 kPa Diastolic 1.3 - 33.0 kPa Mean 2.6 - 35.0 kPa Accuracy : ± 0.4 kPa or 5 % Resolution: 0.1 kPa Protection: over pressure Tourniquet function **Temperature (surface and rectal)** Measurement range: 25.0 – 45.0 ℃ Accuracy: ± 0.1 ℃ Resolution: 0.1 ℃ response time: ≤ 3 min. **Respiration Rate(**RA-LL,RA-LA,LL-LA selectable impedance and nasal cavity) Measurement range: 0 - 120 BPM Accuracy: ± 1 BPM or 5 % Resolution: 1 BPM **Power requirements** Input: 100～240 V AC, 50/60Hz Consumption: ≤ 80VA **Environment** Operation Storage Temperature 0.5 - 40 ℃ -20 - 50 ℃ Relative humidity ≤ 80%	**Pulse Rate** SPO2 measurement range: 0 - 100 % Resolution: 1 % Pulse measurement range: 30- 250BPM Accuracy: ± 2 % Resolution: 1 BPM **IBP(Invasive blood pressure) (Option)** Measurement range: -1.3~40kPa (-10~300mmHg) Channel: 4 channel Transducer sensitivity: 5MV/V/mmHg Unit display: KPa or mmHg selectable **ETCO2 (main/side stream type) (Option) – Plug&Play** Measurement range:0 – 150 mmHg 0 – 19.7% 0 – 20kpa (Barometric pressure supplied by Host) Accuracy: 0- 40 mmHg ± 2mmHg 41-70 mmHg ±5% of reading 71-100mmHg±8% of reading 101-150mmHg±10% of reading Above 80 breath per minute±12% of reading *NOTE: Gas temperature at 25 ℃ Sample rate:50ml/min Response time:< 3 seconds – includes transport time and rise time **Cardiac Output （Option）** Meathod: thermodilution Measurement range: CO:0.1-20.0 L/min TB:23 – 43 ℃ TI:0 – 27 ℃ Resolution: CO:0.1 L/min TI:0.1 ℃ TB:0.1 ℃ Accuracy: CO: ± 0.2 L/min or ±5% TB: ± 0.2 ℃ TI: ± 0.2 ℃ Parameter output:

	Cardiac output Hemodynamics calculation **Safety standard:** IEC 60601-1 **Quality System**: ISO13485: 2003 **CE 0434/FDA 510(k) approved**

Accessories for Standard configuration:

1 set of ECG cable
10 pcs of ECG electrode
1 set of NIBP extend cable
1 set of NIBP adult cuff
1 set of RESP nasal cavity pipe
1 set of TEMP surface probe
1 set of TEMP cavity probe
1 set of integrated adult SpO2 sensor
1 set of power supply cable

7. WH-2A Desktop type Multi Parameter Patient Monitor

characteristics：

- ○ High-lightness digital tube display
- ○ Low power design, rechargeable high-energy built-in battery.
- ○ Fast and accurate measurement of blood pressure, a function of venipuncture .
- ○ Using advance digital technology, accurately measure the Spo2 in low perfusion situation.
- ○ High accurate monitoring of 2-TEMP.
- ○ Huge history trend data storage, up to 360 hours.
- ○ Audible & visual alarm available and alarm limits are adjustable.
- ○ It's available to set the parameter unit according to the user's custom.
- ○ Suitable for adults, pediatrics, neonates.
- ○ Application in hospital like emergency pre-and post-operative care, theater\operating room, intermediate care\step down units, labor and delivery, hospital-based special procedure areas and outdoor ambulance surgery.
- ○ Communication function to network with central monitoring system.
- ○ Long-distance monitoring and software upgrade.

Specifications：

NIBP

Test principle	Automatic oscillometric
Patients types	Adult、pediatric、and neonate
Measurement parameters	systolic, mean, diastolic
Measurement type	Manual、automatic、and continuous
Measurement rang	10-300mmHg
Units of measurement	mmHg/kPa optional
Accuracy	±2 mmHg

Spo2

Measurement range	0-100%	Resolution	1%
Pulse rate range	30-250 BPM	Accuracy	±2%
Resolution	1 BPM		

Body temperature

Measurement range	20.0-45.0℃	Display	T1、T2
Units of measurement	℃/℉ optional		
Accuracy	±0.1℃		

Respiration

Measurement type	nasal tube
Measurement range	0-120 BPM
Accuracy	1 BPM
Resolution	1 BPM

Power requirement 90-264VAC，50/60Hz

Safety standard: IEC 60601-1

Quality System: ISO13485: 2003

CE 0434 approved

8. Handheld Pulse oximeter WH-1B

General Character

1. Digital Technology
2. Alarm with freely set limit.
3. Accurate measurement during low perfusion
4. Anti-Movement, Stable Performance
   Built-in rechargeable battery and seat-type charger; Power-Saved Function
5. Built-in memory card for data memory; connection with computer for downloading data
6. Bright, Easy-to-Read LED Numerals
7. Lightweight, Portable
8. 2 parameters: SPO2 + Pulse Rate

Specification

1. **SpO2**
   Measurement range: 0-100%
   Accuracy: ±2% during 70%-100%
   ±3% during 60%-69%
2. **Pulse Rate**
   Measurement range:
   30bpm-250bpm%
   Accuracy: 1 bpm or ±2%. Take the bigger one
3. **Visual Displays and Indicators:**
   SpO2% display: Red LED. Variable brightness
   Pulse Rate display: Green LED, variable brightness
   Pulse intensity: Red LED 8 bars
   Power Indicator Light: Green; Normal
   Low Power voltage: Red and Blink
   Low perfusion indicator: Red bar
4. **Audio Indicator:**
   Probe off audio indicator (every thirty seconds)
   Pulse audio indicator
   Key-pressing indicator
   Low power voltage
5. **Environmental Specifications:**
   Temperature Range: Operating: (0 ~ +50) ℃
   Transport/Storage: (-40 ~ +70)℃
   Relative Humidity: Operating: 10~ 95%
   (noncondensing) Transport/Storage: 0~95%
6. **Power Requirements:**
   Input: 98~260 VAC, 50/60Hz
   Consumption: ＜80VA
7. **Keys:** Pellicle keys
9. **Regulation Complied:**
   Quality System: ISO13485:2003
   CE 0434/FDA 510(k) approved

Packing list for standard configuration:

1. Pulse oximeter: one set
2. Operation manual: one piece
3. SPO2 probe: one piece
4. Wrist strap: one piece
5. Rechargeable battery: four pieces
6. Charger Pedestal: one piece
7. Power cord: one piece
8. Communication cable: one piece
9. Compact disc: one piece

Dimensions: 24cm*16cm*7cm

Gross weight: 0.8KG

9. WH-2800 Central Monitoring System

Display
1. Simultaneous display with multi 17" LCD (one 19” LCD for standard) 2. Each screen can display 8 bedside monitor's information with at least 3 kinds of display mode 3. Display of multi waveforms (ECG, RESP, PLETH, CO2, IBP…) and multi parameters (HR, ST, SpO2, PR, RR, TEMP, SBP, DBP, MAP, inCO2, etCO2, CO…) 4. 7 days data trend storage and printable information for each patient 5. ECG waveform storage with printable information
Setup and Alarm
1. Operating menu with multi-language selection 2. Alarm limit, switch and status of each monitor can be setup by central monitoring system 3. Central monitoring system can be setup its own audio and visual alarm limit
Control
1. ECG lead of each monitor can be changed in central monitoring system 2. NIBP measurement on each monitor can be controlled by central monitoring system
Communication
1. Support long distance monitoring, diagnosis and software upgrade 2. Adaptive network connection for RJ45, Ethernet or RS-232C 3. Wired and /or Wireless networking (wireless connection is option)

10. WH-M9500 Patient Monitor with (CO2, O2, N2O, Enf, Des, Hal, Sev, ISO)

The monitor has features as follows:
1. Multiple measuring functions include 3-lead, 7-lead, 12-lead ECG/HR, RESP, dual TEMP, SpO2/Pulse, NIBP, dual IBP, EtCO2 and AG are optional.
2. Complete built-in module design ensures stable and reliable performance
3. Unique all-lead ECG on-one-screen display, which can facilitate the diagnosis and analysis of cardiac disease
4. Can store the trend data for 168 hours and has the function of displaying trend data and trend graphs
5. Function of alarm event reviewing, can store 1800 pieces of alarm events
6. Function of NIBP measurement reviewing, can store 1000 pieces of NIBP measurement data
7. Function of reviewing 30 minutes one important lead' EGC waveform
8. Built-in recorder is optional and it supports real-time recording, trigger printout by alarm
9. Parameter display with big character
10. Optional function of Calculator of drug concentration
11. Optional function of Display of oxyCRG
12. Function of Display of short trend
13.15" authentic color high brightness TFT LCD monitor
14. Portable design, stylish and convenient
15. Rechargeable maintenance-free battery, can continue working when AC power is off
16. Nurse call function guarantee patient alarm draws enough attention
17. Can be connected with the central unit to realize centralized monitoring
18. Is resistant to high-frequency electrotome and is protected against defibrillation effects.