

# EDAN



## iM70 Patient Monitor



Bed Rail Hook

### Internal Temp Storage:



#### Configurations

##### Basic Measurements for Sub-acute Care

A full set of basic parameters including 3/5 lead ECG, HR, RESP, EDAN SpO<sub>2</sub> (NELLCOR optional), NIBP, PR, and 2-channel temperature is employed

##### Critical Measurements for Acute Care

The introduction of 2-channel invasive BP, cardiac output, and end tidal carbon dioxide may suit the requirements of most acute cares

#### Reliable Algorithms

- iSEAP™ ECG algorithm optimized for arrhythmia detection, pacemaker detection, and HR measurement
- iMAT™ SpO<sub>2</sub> algorithm with outstanding motion resistance and low perfusion resistance performance
- iCUPS™ NIBP algorithm optimized for cardiac patients, hypertensive patients, and neonatal patients



Care for Health

# iM70

## Patient Monitor



Wall Mount



Rolling Stand

### Respironics CO<sub>2</sub> (Mainstream/Sidestream) for Intubated/Non-intubated Patients



- Plug & Play
- Dehumidification tube instead of water trap design
- No need to calibrate on a regular basis
- Low sampling rate of 50 ml/min

### PHASEIN Anesthetic Gas/O<sub>2</sub> (Mainstream/Sidestream)



- Unique Plug & Play module for mainstream anesthetic gas monitoring
- The no moisture sampling line design suitable for all clinical applications
- A stable low flow of 50mL/min for all types of patients

#### Safety Standards

CE Marking in accordance to Council Directive 2007/47/EC concerning Medical Devices  
IEC 60601-1+A1+A2; IEC 60601-1-2+A1, IEC 60601-1-8 (Alarm)

#### Physical Specification

Size: 328 mm (L) x 150 mm (L) x 285 mm (H)  
Weight: Standard Configuration <5.5 kg (with battery)

#### Display

12.1" Color TFT LCD (Touch-screen Optional)

Resolution: 800x600 dpi

Traces Displayed: up to 8

Waveforms Displayed: up to 11

Various Working interface Selectable:

Standard Monitoring Display  
Large Font Intensive Care Display  
Bed to Bed view Display (Optional)  
OxyCRG Dynamic View Display

Sweep Speed: 6.25mm/s, 12.5 mm/s, 25mm/s, 50mm/s

#### Environment requirement

Ambient Temperature: -20 °C - 55 °C (-4-131 °F)  
Humidity: 15%-95% non-condensing

#### Power Supply

External Power Supply  
100-240V AC, 50/60 HZ

Internal Battery Power Supply  
Type: Rechargeable Li-Ion  
4200mAh 14.8 V DC  
2100 mAh (optional)

Battery working period:  
Under certain circumstances 2100 mAh: 150 min or longer  
4200mAh: 300 min or longer

Recharging time  
< 360 minutes (4200 mAh)  
< 200 minutes (2100 mAh)

#### RESP

Method: Trans-thoracic impedance

Operation mode: Auto/ Manual

RR Measurement range:

Adult: 0-120 rPM

Neonate/Pediatric: 0-150 rPM

Resolution: 1rPM

Apnea alarm threshold:

10s, 15s, 20s (default), 25s, 30s, 35s, 40s

Alarm: 3 level of audible and visual alarm,  
alarm events recallable

Band width: 0.2-2.5Hz (-3dB)

Sweep speed: 6.25mm/s, 12.5mm/s, 25mm/s, 50mm/s

#### ECG

Lead type: 5 lead and 3-lead selectable

3 leadwire cable: RA, LA, LL or R, L, F

5 leadwire cable: RA, LA, RL, LL, V or R; L; N; F; C

Lead selection:

3-lead: I, II, III;

5-lead: I, II, III, aVR, aVL, aVF, V

Gain selection: x0, x1.25, x0.25, x0.5, x1, x2, auto

Sweep speed: 6.25mm/s, 12.5mm/s, 50mm/s

ECG HR Range

Adult: 15-300bpm  
Resolution & accuracy:  $\pm 1$ bpm or  $\pm 1\%$  whichever is greater  
Filter:  
Diagnostic mode: 0.05-100Hz or 0.05-150 Hz (optional 12 lead)  
Monitoring mode: 0.5-40Hz  
Surgical mode: 1-20Hz  
Protection: Withstand 5000VAC/50Hz Voltage in isolation

against Defibrillation and electrosurgical interference

Alarm: 3 levels of Audible and visual alarm, alarm events recallable

Pacemaker detection:  
Yes, and 5 types abnormal status detectable  
IEC 60601-2-25, AAMI EC 11/EC 13  
IEC 60601-2-27

#### NIBP

Method: Automatic Oscillometric

Operation modes: Manual/Automatic/Continuous

Auto measurement time interval: Adjustable

1/2/3/4/5/10/15/30/60/90/120/240/480/ Minutes

Measurement unit: mmHg/kPa selectable

Measurement types: Systolic, Diastolic, Mean

Pressure range for Adults:

Systolic: 40 - 270 mmHg

Diastolic: 10 - 215 mmHg

Mean: 20 - 235 mmHg

Pressure range for pediatrics:

Systolic: 40 - 200 mmHg

Diastolic: 10 - 150 mmHg

Mean: 20-165 mmHg

Pressure range for Neonates:

Systolic: 40 - 135 mmHg

Diastolic: 10 - 100 mmHg

Mean: 20 - 110 mmHg

Leak test and pressure auto calibration: Yes

Over-pressure protection: Dual Safety protection

Resolution: 1 mmHg

Accuracy: Max mean error:  $\pm 5$  mmHg

Max standard deviation:  $\pm 8$  mmHg

Alarm: Systolic, Diastolic, Mean

PR from NIBP: Measurement 40-240bpm

Resolution: 1bpm

Accuracy: 3bpm or 3% whichever is greater

Leak test and pressure auto calibration: Yes

IEC 60601-2-30

Sp10: 2002

#### SpO<sub>2</sub>

Measurement & Alarm Range: 0 - 100% (EDAN SPO<sub>2</sub>)

Resolution: 1%

Accuracy:  $\pm 2\%$  (70-100%, Adult/Pediatric)

$\pm 3\%$  (70-100%, Neonate)

PR Measurement and Alarm Range: 30 - 300 bpm

Resolution: 1bpm

Accuracy: 3bpm

Refresh rate: 1s

ISO 9919

#### SpO<sub>2</sub> (Optional, by Nellcor OxiMax™)

Measurement & Alarm Range: 0 - 100%

Resolution: 1%

Accuracy:  $\pm 2-3\%$  (70-100%, Adult/Pediatric)

$\pm 3-3.5\%$  (70-100%, Neonate)

Resolution: 1bpm  
Accuracy: 3bpm (depends on probe)

Temperature (2 Channels, 1 probe by default)  
Measurement range: 0-50 °C (32-122 °F)  
Resolution: 0.1 °C  
Accuracy:  $\pm 0.1$  °C (without probe)  
Channel: Dual-channel, Provide T1, T2, T

#### IBP (upto 4 Channels, optional)

Measurement Pressure:  
ART, PA, CVP, RAP, LAP, ICP, P1, P2  
Measurement range: -50 - 300 mmHg Resolution: 1 mmHg  
Accuracy:  $\pm 2\%$  or 1 mmHg, whichever is greater (without probe)  
Sensitivity:  $\mu 5$  V/V/mmHg.  
Impedance range: 300-3000Ω  
IEC 60601-2-34

#### Respironics CO<sub>2</sub> (Mainstream/Sidestream optional)

By Philips Respironics CAPNOSTAT © 5 & LoFlo™ Technology

Range: 0- 150mmHg

Accuracy:  $\pm 2\%$  0 - 40 mmHg,

$\pm 5\%$  41 - 70mmHg

$\pm 8\%$  71 - 100mmHg

$\pm 10\%$  101 - 150 mmHg

AwRR Accuracy:  $\pm 1$ rpm

Convenient design for intubated and non-intubated applications

Possible to work at low sample flow rate: 50 ml / minute

Detailed specification refer to the user manual or Respironics

ISO 21647

#### EDAN Co2 Module (Sidestream optional)

Measuring Range

CO<sub>2</sub>: 0 mmHg ~ 150 mmHg (0% ~ 20%)

AwRR: 2 rpm ~ 150 rpm

Resolution: 0.2mmHg (0 mmHg~ 70mmHg),

0.5mmHg (70 ~ 100mmHg)

FICO<sub>2</sub>: 0.2mmHg

AwRR: 1rpm

Accuracy:  $\pm 2$  mmHg, 0mmHg ~ 40mmHg

$\pm 5\%$  of reading, 41 mmHg ~ 70 mmHg

$\pm 8\%$  of reading, 71 mmHg ~ 100 mmHg

$\pm 10\%$  of reading, 101 mmHg ~ 150

mmHg

$\pm 12\%$  or + 4 mmHg of reading,

whichever is greater

AwRR: + 1 rpm

Sample gas (+15ml/min)

Flowrate 70ml/min or 100ml/min, optional

Flowrate

#### Thermal Recorder (Optional)

Built-in, direct thermal pixel array recorder

Up to 3 Channels printing, 1, 2, 3 Channels Selectable

Print Speed: 25mm/s, 50mm/s

Paper width: 50 mm

I/O Interface

USB Port,

SD Card Socket

RJ-45 Ethernet Port, IEEE 802.3,

VGA Output

Analog and Nurse Call output

Defibrillation Synchronization Output

Built-inWLAN (optional)

## EDAN

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ISO 13485  
ENG-PM-M60-V1.3-20130903