# Technical Specifications

## Safety
- ECG: 600511, approved. Cf. marking according to MDD/93/42/EEC.

## Dimension and Weight
- Dimension: 21.8" x 21.8" x 16.3" (W x D x H)
- Weight: 35.2 lb.

## Power Requirements
- AC 120V/60Hz, 240V/50Hz, 100VA, 140VA
- Temperature: 5°C to 35°C (40°F to 95°F) non-condensing
- Humidity: 20% to 80% non-condensing

## Patient Range
- Neonsate, pediatric, and adult patients

## Performance Specifications
- Display: 12.1" color TFT
  - Rolling and waveform display
  - Resolution: 800x600
  - Multi-function display, including: Standard display, large display, trend display, etc.

## Interface
- Parameter cable interface
- RS-232 interface for connection of an alternate display
- Aux Output interface
  - Analog (DIN Rail )/D-sub 9pin (Box)

## Lithium Battery
- Rechargeable
- Maximum 2 hours for charging
- 2 hours for continuous working

## Level Acid Battery
- Rechargeable
- Maximum 12 hours for charging
- 2 hours for continuous working

## Trending
- Trend: 1-96 hours

## Alarm
- Up to adjustable high and low limits (adjustable audible and visual alarm)

## Networking
- Connected to central networking system

## Recorder
- Bulkin, thermal printing
- Multi-channel waveform: 7 channels
- Record mode: normal or alarm, time-defined, etc.
- Paper width: 50mm
- Print speed: 210mm/min

## ECG
- 5-lead and 12-lead selectable
  - Lead selection: I, II, III, aVR, aVL, aVF
  - ECG waveform: 2 channels
  - Gain selection: 60, 120, 240, 480, 960, 1920, 3840 µV
  - Sweep speed: 2.5mm, 5mm, 10mm, 20mm
  - Heart rate range: 50-250bpm
  - Accuracy: ±1% or ±1.0 bpm whichever is greater
  - Filter: Diagnostic mode: 0.04-100Hz
  - Monitoring mode: 0.15-5Hz
  - Surveillance mode: 0.15-5Hz
  - Waveform: 400mVAC/200mVDC voltage in isolation
  - Anti interference and artifact function
  - Simulating signal: 1mV/200ms
  - Alarm: YES audible and visual alarm, alarm events recallable

## Respiration
- Method: Throat Impedance
- Sensing mode: Lead lead baseline optional: Option B
- Operation modes: Manual/Continuous
- Auto measure time: Adjustable
- Measurement units: nL/min
- Measurement range: SpO2: 0-100%
  - Adult Mode: 40-100%
  - Pediatric Mode: 40-100%

## Non-Invasive Blood Pressure
- Method: Automatic oscillometric
- Operation modes: Manual/Continuous
- Auto measure time: Adjustable
- Measurement units: mmHg
- Measurement range: Systolic, Diastolic, Mean
  - Adult Mode: 45-270mmHg
  - Pediatric Mode: 40-180mmHg

## Accuracy
- SpO2: ±2% or ±2mmHg, whichever is greater
- Respiration: ±1-breath/min
- Non-Invasive Blood Pressure: ±3mmHg

## Temperature
- Measurement range: 0-40°C
- Resolution: 0.1°C
- Accuracy: 0.1°C

## IRP
- Measurement range: 0-300mmHg
- Channel: Single-channel
- Pressure sensor: 521.915mmHg
- Pressure range: ART, MAP, OXY, LV, RISK
- Resolution: 1mmHg
- Accuracy: ±3% of reading, whichever is greater
- Alarm range: ±300mmHg

## ECG/CO2
- Measurement range: 0-40mmHg
- Resolution: 0.1mmHg (for CO2)
- Accuracy: ±2% of reading or ±2mmHg, whichever is greater
- Resolution range: 0-200mmHg
- Accuracy: ±3% of reading
- Alarm range: ±200mmHg

## Optional Features
- Wireless CO2 (Mainstream)
  - Method: Infrared Absorption
  - Measuring Mode: Mainstream
  - Measurement range: 35-4000ppm
  - Resolution: 0.1ppm
  - Accuracy: ±3% of reading
- Temperature: 30-40°C
- Sensor: 30-90%RH
- Energy: 30mA

## Multi-Gas
- Method: Infrared Absorption
- Gas sensor: CO, N2O, NO, NO2, CO2, H2S, O2, N2, Saturation
- Measurement range: CO: 0-2000ppm
- Resolution: 1ppm
- Accuracy: 5% of reading
- Alarm range: 10% of reading

## Options
- Multi-Gas
  - Dual-IR, ENF, TVOC, Thermal/Reactor, Li-ion Battery

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**Mindray Co., Ltd.**

Headquarters: Mindray Building, Keji 12th Road South, High-tech Industrial Park, Nanshan, Shenzhen 518057, P. R. China

Tel: +886 255 2852492, 2852888
Fax: +886 255 2852600, 28528501
E-mail: intl-market@mindray.com
Website: www.mindray.com

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Please call Mindray at 1-800-656-9088 for North American service support and sales.

North American Office:
4885 Kingsway, Suite 311, Burnaby, B.C., V8N 4Z7 Canada
Tel: +1 604 451 1199
Fax: +1 604 451 1199
Toll free: 800 656 9088
E-mail: usmarket@mindray.com