

MINDRAY DATASCOPE DUO

ABOUT

The Mindray Datascope Duo is a portable NIBP spot-check monitor designed for use in healthcare settings with adult and pediatric patients needing continuous clinical monitoring. It allows for quick and precise NIBP measurements and can also monitor Pulse Rate and SpO2 (optional). The device can be powered by AC connection or rechargeable Lithium Ion battery. Its unique design features a carrying handle for easy portability, lightweight construction, and compact size. The Duo can be carried by hand, mounted on a rolling stand, or placed on a tabletop for convenience.

FEATURES

User-friendly Interface: Operate all functions with a simple four-button keypad.

Reliable Readings: Obtain Blood Pressure and Pulse Rate data from NIBP or Pulse Oximetry with Masimo SET SpO2 technology.

Simple Operation: Ensures precise Blood Pressure and Pulse Rate measurements. **Portable Design:** Effortlessly move the device between patients, making it convenient for healthcare professionals.

The device measures Blood Pressure, O2 Levels, Respiratory Rate, Cardiac Output, and Temperature.

Multi-Measurement Module family with its extensions, and the IntelliVue gas analyzers extend its functionality with.



SPECIFICATIONS

DIMENSIONS

Height: 9.5 in (24.3 cm)

Width: 5 in (13 cm)

Depth: 5.5 in (14 cm)

Weight: 3.9 lbs (1.76 kg)

TEMPERATURE

Scale: Selectable °F or °C

Accuracy: $\pm 0.2^\circ\text{F}$ per ASTM E1112

Patient Temperature Range: 80 to 110°F/26.7 to 43.3°C

Oral: 4–6 seconds

Adult Axillary: 12–15 seconds

Paediatric Axillary: 10–13 seconds

Rectal: 10–13 seconds

PULSE OXIMETRY

Adult/Pediatrics: 70% to 100% ± 2 digits SpO₂ Saturation Accuracy during motion conditions

Adult/Pediatrics: 70% to 100% ± 3 digits SpO₂ Pulse Rate Accuracy Range with no motion conditions

Adult/Pediatrics: 25–240 BPM ± 3 BPM SpO₂ Pulse Rate Accuracy Range during motion conditions

Adult/Pediatrics: 25–240 BPM ± 3 BPM Nellcor OxiMax SpO₂ Saturation Accuracy

Adult/Pediatrics: 70% to 100% ± 2 digits SpO₂ with sensors: MAX-A, MAX_-AL, MAX-N, MAX-P, MAX-FAST

Adult/Pediatrics: 70% to 100% ± 3 digits SpO₂ with sensors: DS-100A, OXI-A/N, OXI-P/I, D-YS

PULSE RATE ACCURACY RANGE

Adult/Paediatric: 20–250 BPM ± 3 BPM

ELECTRICAL

AC Voltage: AC100~240 V, 50/60 Hz

Battery Type: Lithium Ion Number of Batteries: 1

Battery Voltage: 7.2 Vdc Battery Capacity: 6.6 A-Hr

Battery Run Time: 14 hours from one fully charged new battery at 77°F (25°C) with SpO₂ measurement and NIBP measurements every 7 minutes. 17.0 hours with NIBP only and measurements every 7 minutes

Battery Recharge Time: 4.5 hours max

ENVIRONMENTAL CONDITIONS

Environmental Conditions Storage Altitude: -1,000 to 20,000 ft/-305m to 6096m ASL, 1050 hPa to 466 hPa/788 mmHg to 349 mmHg

Storage Temperature: -4°F to 140°F/-20°C to 60°C

Storage Humidity: 10–95% non-condensing
Operating Altitude: -1,000 to 9,889 ft/-305m to 3014m ASL, 1050 hPa to 700 hPa/788 mmHg to 525 mmHg

Operating Temperature: 41°F to 104°F/ 5°C to 40°C
Operating Humidity: 15–95% non-condensing