

Datascope Duo™

Summary of Features and Benefits

- All functions accessible through a four button keypad
- Standard parameters include NIBP and Pulse Rate
- Options include Masimo SET[™] motion tolerant SpO₂, Nellcor[®] OxiMax[™] SpO₂, and Welch Allyn[®] SureTemp[®] Plus temperature module
- Large, bright LEDs make important vital signs easy to read
- Equipped with a built in power supply for direct AC connection
- Sturdy handle combines with a compact and lightweight design to make the Duo exceptionally portable



Compact and lightweight, the Duo is a portable vital signs monitor designed for monitoring low acuity patients. The Duo provides accurate blood pressure and pulse rate readings for both adult and paediatric patients.

Lithium Ion battery provides extended run time between charges.

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Display

Digital Display with LED panels

Non-Invasive BP

Technique:	Oscillometric
Systolic Range:	Adult: 40–255 mmHg Paediatric: 40–200 mmHg
Diastolic Range:	Adult: 10–210 mmHg Paediatric: 10–150 mmHg
Systolic Accuracy:	Mean Error less than ± 5 mmHg, Standard Deviation less than ± 8 mmHg
Diastolic Accuracy:	Mean Error less than ± 5 mmHg, Standard Deviation less than ± 8 mmHg
Connector Type:	Rectus
Pulse Rate from NIBP	
Range Adult/Paediatric:	40–240 BPM

Temperature

Welch Allyn® SureTemp® Plus

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
Predict Measurement Times (Predict time depends on probe placement and patient condition)	
Oral:	4–6 seconds
Adult Axillary:	12–15 seconds
Paediatric Axillary:	10–13 seconds
Rectal:	10–13 seconds

Pulse Oximetry

Masimo SET® SpO₂

SpO ₂ Saturation Accuracy with no motion conditions	
Adult/Paediatric:	70% to 100% ± 2 digits
SpO ₂ Saturation Accuracy during motion conditions	
Adult/Paediatric:	70% to 100% ± 3 digits
SpO ₂ Pulse Rate Accuracy Range with no motion conditions	
Adult/Paediatric:	25–240 BPM ± 3 BPM
SpO ₂ Pulse Rate Accuracy Range during motion conditions	
Adult/Paediatric:	25–240 BPM ± 3 BPM

Nellcor® Oximax® SpO₂ Saturation Accuracy

Adult/Paediatric:	70% to 100% ± 2 digits SpO ₂ with sensors: MAX-A, MAX-AL, MAX-N, MAX-P, MAX-FAST
Adult/Paediatric:	70% to 100% ± 3 digits SpO ₂ with sensors: DS-100A, OXI-A/N, OXI-P/I, D-YS
Pulse Rate Accuracy Range	
Adult/Paediatric:	20–250 BPM ± 3 BPM

Electrical Ratings

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 SpO ₂ 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

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

Physical Dimensions

Monitor Size:	5.1" W x 9.6" H x 5.5" D (130 mm W x 244 mm H x 140 mm D)
Monitor Weight:	3.9 lbs (1170 grams) excluding battery & optional accessories 4.6 lbs (2088 grams) including 1 Lithium Ion battery excluding optional accessories

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