

# elite V6 Patient Monitor

## 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: 384 mm (L) × 213 mm (W) × 320 mm (H)  
Weight: Standard Configuration 7.5 kg

## Display

15" Full Touch-screen Color TFT  
Resolution: 1024×786 dpi  
Traces Displayed: up to 8  
Waveforms Displayed: up to 13  
Various Working Interface Selectable:

Standard Monitoring Display  
Large Font Intensive Care Display  
Trend Graph/ Monitoring Co-Display  
Bed to Bed view Display (Optional)  
OxyCRG Dynamic View Display  
Drug Dose Calculation Interface

Sweep Speed: 6.25mm/s, 12.5mm/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, 50/60HZ  
Internal Battery Power Supply

Type: Rechargeable Li-ion  
4200 mAh 14.8 V DC

Battery Backup : 2-4 Hours

## 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 levels 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, 12-lead optional  
3 leadwire cable: RA; LA; LL or R; L; F  
5 leadwire cable: RA; LA; RL; LL; V or R; L; N; F; C  
12-lead (including 3/5-lead) optional  
Input: 10 leadwire cable: RA; LA; RL; LL; V1-V6 or R; L; N; F; C1-C6

3-lead: I; II; III;  
5-lead: I; II; III; aVR; aVL; aVF; V  
12-lead: I; II; III; aVR; aVL; aVF; V1-V6  
Gain selection: x0.125; x0.25; x0.5; x1; x2; x4; auto  
Sweep speed: 6.25mm/s, 12.5mm/s, 25mm/s, 50mm/s  
ECG HR Range: Adult: 15-300bpm  
Pediatric / Neonate: 15-350bpm

Resolution & accuracy: ±1bpm or ±1%, whichever is greater  
Filter:  
Diagnostic mode: 0.05-100Hz or 0.05-150Hz(optional 12-lead)  
Monitoring mode: 0.5-40 Hz  
Surgical mode: 1-20Hz  
Protection: Withstand 5000VAC/50Hz voltage in isolation against  
Defibrillation and electrosurgical interference

ST-Segment Detection:  
Measurement range: -2.0 mV~2.0mV  
Alarm range: -2.0 mV~2.0mV  
ST-Segment Arrhythmia analysis and categorization : Yes  
Alarm: 3 levels of audible and visual alarm, alarm events recallable

12 lead ECG analysis  
208 Reference Diagnostic Results

Arrhythmia verification compliant with AHA and MIT-BIH databases  
IEC 60601-2-25 / EN 60601-2-25 / AAMI EC 11 / EC 13  
IEC 60601-2-27 / EN 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: 1mmHg  
Accuracy: Max mean error ±5mmHg  
Max standard deviation ±8 mmHg

Alarm: Systolic, Diastolic, Mean  
PR from NIBP: Measurement 40~240 bpm  
Resolution 1 bpm  
Accuracy 3bpm or 3% whichever is greater  
Leak test and pressure auto calibration: Yes

IEC 60601-2-30 / EN 60601-2-30 /  
EN 1060-1 / EN 1060-3 / EN 1060-4  
SP10:2002

## NIBP (By Omron M3600)

### Measurement Ranges

**Adult/Pediatric:**  
Pulse Rate: 40 - 200bpm  
Systolic Pressure: 60 - 250mmHg  
Diastolic Pressure: 40 - 200mmHg  
Mean Arterial Pressure: 45 - 235mmHg

### Neonate:

Pulse Rate: 40 - 240bpm  
Systolic Pressure: 40 - 120mmHg  
Diastolic Pressure: 20 - 90mmHg  
Mean Arterial Pressure: 30 - 100mmHg

### Measurement Accuracy

Pulse Rate: ±2bpm or 2% of reading whichever is greater  
Blood Pressure: Complies with ANSI/AAMI SP10:2002

### Measurement

Modes of Measurement: Manual  
Long-term automatic  
Short-term automatic  
Smart Inflation  
Smart measurement  
High speed

Pressure Transducers: Two independent solid-state  
Deflation Methods: Dynamic Linear Deflation  
rate specific to pulse rate

## SpO2

Measurement & Alarm Range: 0 - 100%  
Resolution: 1%;  
Accuracy: ±2% (70-100%, Adult/Pediatric);  
±3% (70-100%, Neonate)

PR Measurement and Alarm Range: 30 - 300bpm  
Resolution: 1bpm  
Accuracy: 3bpm  
Refresh 1s  
ISO 9919

## SpO2 (By Nellcor OxiMax™)

Measurement & Alarm Range: 0 - 100%  
Resolution: 1%;  
Accuracy: ±2-3% (70-100%, Adult/Pediatric);  
±3-3.5% (70-100%, Neonate)

PR Measurement and Alarm Range: 20 - 300bpm  
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: ±0.1°C (without probe)  
Channel: Dual-channel. Provide T1; T2; ΔT  
IEC 12470-4

## IBP (Multi-channel extendable)

Method: Automatic Oscillometric  
Measured Pressure: ART, PA, CVP, RAP, LAP, ICP, P1,P2  
Measurement range: -50 - 300 mmHg; Resolution: 1 mmHg  
Accuracy: ±2% or ±1mmHg, whichever is greater (without probe)  
Sensitivity: 5μV/V/mmHg;  
Impedance range: 300-3000Ω  
IEC 60601-2-34

## EDAN Co2 Module (Sidestream optional)

Measuring Range  
Co2: 0 mmHg ~ 150 mmHg (0% ~ 20%)  
AwRR: 2 rpm ~ 150 rpm  
Resolution:  
EtCO2 : 0.2mmHg (0 mmHg~ 70mmHg), 0.5mmHg (70 ~ 100mmHg)  
FiCO2: 0.2mmHg  
AwRR: 1rpm  
Accuracy: +2 mmHg, 0mmHg ~ 40mmHg  
+5% of reading, 41 mmHg~70 mmHg  
+8% of reading, 71 mmHg~100 mmHg  
+10% of reading, 101 mmHg~ 150 mmHg  
+12% or + 4 mmHg of reading, whichever is greater  
+1 rpm

AwRR: 1rpm  
Sample gas  
Flowrate  
70ml/min or 100ml/min, optional (+15ml/min)

## CO2 (Mainstream / Sidestream)

By Philips Resproincs CAPNOSTAT 5 & LoFlo Technology

Range: 0 ~ 150mmHg  
Accuracy: ±2% 0 ~ 40mmHg,  
±5% 41~70mmHg  
±8% 71~100mmHg  
±10% 101~150 mmHg

AwRR Accuracy: ±1rpm

Convenient design for intubated and non-intubated applications  
Possible to work at low sample flow rate: 50ml / minute  
Detailed specification refer to the user manual of Resproincs  
ISO 21647

## Cardiac Output

Method: Thermodilution Technology

### Measuring range

CO 0.1 ~ 20L/min  
TB 23°C ~ 43°C  
TI -1°C ~ 27°C  
Alarm range 23°C ~ 43°C

## Anesthetic GAS/O2

Technology Infra-red absorption characteristic  
Paramagnetic Oxygen: Optional  
Gas CO2, O2, N2O, Des, Iso, Enf, Hal, Sev

### Warm-up time

(IRMA AX+) Iso accuracy mode: 45s  
Full accuracy mode: 60s  
(ISA OR+ / AX+) <20s  
Sample flow rate (for ISA OR+ / AX+)  
50 ±10 ml/min

### Measuring range

CO2: 0 ~ 15%  
N2O: 0 ~ 100%  
Hal/Iso/Enf: 0 ~ 8%  
Sev: 0~10%  
Des: 0 ~ 22%  
O2: 0 ~ 100%(ISA OR+/AX+)  
Respiratory Rate: 0-150bpm ±1bpm  
MAC Value displayed  
ISO 21647

## BIS

BIS: 0 ~ 100  
SQI: 0%~100%  
SR: 0%~100%  
EMG: 30dB~80dB  
SEF: 0.5Hz ~ 30.0Hz  
TP: 40dB~100dB  
BIS Trend Length: 6min, 12min, 30min, 60min  
EEG Bandwidth: 0.25Hz~50Hz

## Thermal Recorder

Built-in, direct thermal pixel array recorder  
2 channels printing and 1,2 channels selectable (to be released)  
Up to 3 channels printing and 1,2,3channels selectable (to be released)  
Print speed: 25mm/s, 50mm/s (to be released)  
Paper width: 50 mm

## I/O Interface

8-USB Ports  
SD Card Socket  
RS-232 Serial Port  
RJ-45 Ethernet Port. IEEE 802.3  
HDMI output  
VGA output  
Analog and Nurse Call output  
Defibrillation Synchronization Output  
WLAN Access Point 802.11g 54Mbps (optional)

# EDAN



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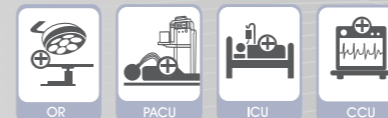
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