

EDAN



elite V8

Patient Monitor



reddot design award
winner 2011



Interchangeable Modules Available:

- Basic Module
- Option -1 (3/5lead ECG, NIBP, EDAN SPO2, Respiration , 2 X Temperature)
- Option -2 (3/5/12 lead ECG, NIBP, EDAN SPO2, Respiration , 2 X Temperature)
- Option -3 (3/5 lead ECG, NIBP, EDAN SPO2, Respiration , 2 X Temperature, 2 X IBP)
- EDAN ETCO2 Module (Side Stream).
- Respironics ETCO2 Module (Main and Side Stream)
- BIS Module including BIS EEG.
- AG Module.
- NMT Module.
- Nellcor Oximax Module.
- Cardiac Output Module, ICG Module (Non Invasive)
- 2 X IBP.
- Omron M3600 NIBP Module.
- 12 Lead ECG Module(Optional)

Calculation Packages:

Haemodynamic, Renal, Oxygenation, OxyCRG & Ventilation

Optional Connectivity / Upgrades:

- Central Nursing Station (EDAN) (Wired / Wireless).
- HL 7 , HIS via XML Files.
- External Display thru VGA output Port.
- Nurse call Interface output.
- USB Ports for Data Storage / Transfer and Upgrades of Software (If required).
- Other Output Interface sockets (Refer over leaf)

Mounting Options:

- Wall Mount.
- Rolling Stand.



Care for Health

elite V8

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: 425 mm (L) × 245 mm (W) × 382 mm (H)
Weight: Standard Configuration 14 kg

Display

17" Full Touch-screen Color TFT
Resolution: 1280×1024 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

Trend Display

NIBP Measurement Review: 1500
Trend Review: 150 h
Alarm Review: 200 Events
Frozen Waveform: 720 Sec

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 : 3 - 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
Lead selection: 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
20R Reference Diagnostic Results
Pace maker detection:
Yes, and 5 types abnormal status detectable
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)

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

CO2 (Mainstream / Sidestream)

By Philips Respronic 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 Respronic
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
SQL: 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

NMT Module and Monitor

Train Of Four (TOF)
Post Tetanic Count (PTC)

Thermal Recorder

Built-in, direct thermal pixel array recorder
2 channels printing and 1,2 channels selectable
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)

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