

CAS 750 Multi-Parameter Monitor

Features

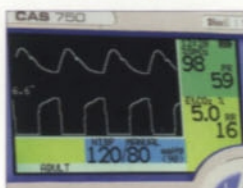
- Fully configured monitor with ECG, Respiration, Temperature, SpO₂, NIBP and EtCO₂, weighing only 4.4 lbs (2 kg)
- Pulse oximetry choices including Masimo SET[®] and Nellcor[®] OxiMax[®]
- MAXNIBP[®] (Motion Artifact Extraction) for fast, accurate and reliable blood pressure measurements
- Oridion MicroStream[®] EtCO₂ option for intubated and non-intubated patients
- Wireless (infrared) printer option
- Monitoring for Neonates to Adults
- User removable NiMH battery pack, internal AC power supply and DC power option.

750E Configuration



750E-1	ECG
750E-2	ECG and SpO ₂
750E-3	ECG, SpO ₂ and MAXNIBP
750E-3C	ECG, SpO ₂ and EtCO ₂
750E-4	ECG, SpO ₂ , MAXNIBP and EtCO ₂

750C Configuration



750C-2	EtCO ₂ and SpO ₂
750C-3	EtCO ₂ , SpO ₂ and MAXNIBP

ECG

Input: 3 or 5 leads
 Leads: I, II, III, aVL, aVF, aVR, V
 Frequency Response: 0.5 to 40 Hz
 Gain: Auto or Selectable (X1, X2, X4 or X8)
 Pacer Detection: Yes
 Pacer Rejection: Yes

Heart Rate (ECG)

Range: Adult 15-300 BPM
 Neonate 15-350 BPM
 Accuracy: ± 3 BPM or $\pm 3\%$, whichever is greater
 Resolution: 1 BPM

Respiration (ECG)

Method: Impedance Pneumography
 Range: 0 - 150 BrPM
 Accuracy: 0 to 122 BrPM ± 1 BrPM
 123 to 150 BrPM ± 2 BrPM
 Resolution: 1 BrPM

Temperature

Input: YSI[®] 400 compatible
 Range: 29 °C to 42 °C (84.2 °F to 107.6 °F)
 Accuracy: ± 0.1 °C (± 0.2 °F)
 Resolution: 0.1 °C or 0.1 °F

NIBP

Technique: Oscillometric (MAXNIBP[®] Technology)
 Patient Range: Adult - Neonate
 Systolic: Adult 30-255 mmHg
 Neonate 30-135 mmHg
 Diastolic: Adult 15-220 mmHg
 Neonate 15-110 mmHg
 MAP: Adult 20-235 mmHg
 Neonate 20-125 mmHg
 Pulse Rate Range: Adult 30-240 BPM
 Neonate 40-240 BPM
 Accuracy: ± 5 mmHg
 Standard deviation no greater than 8 mmHg (meets AAMI 2002 SP-10 requirements)

SpO₂

Masimo SET[®]
 Range: 0-100%
 Accuracy: Adult 70-100%, ± 2 digits (1 S.D.)
 Neonate 70-100%, ± 3 digits (1 S.D.)
 Pulse Rate Range: 25-240 BPM
 Accuracy: ± 3 BPM

Nellcor[®] OxiMax[®]
 Range: 1-100%
 Accuracy: Adult 70-100%, ± 2 digits (1 S.D.)
 Neonate 70-100%, ± 3 digits (1 S.D.)
 Pulse Rate Range: 20-240 BPM
 Accuracy: ± 3 digits

EtCO₂

Method: Sidestream Capnography (Oridion MicroStream[®])
 Units: mmHg, % or kPa
 Sample Rate: 50 ml/min ± 7.5 ml/min
 Range: 0 to 99 mmHg (0-13.2 kPa and 0-13.0 vol% at sea level)
 Warm-Up Time: 30 seconds typical, reaches steady-state accuracy 20 minutes after power up
 Accuracy: 0-38 mmHg ± 2 mmHg
 39-99 mmHg $\pm 5\%$ of reading
 Resolution: 1 mmHg, 0.1 % or 0.1 kPa
 Respiration Rate: 0-150 BrPM

Patient Alarms

Adjustable Alarms (High & Low): Heart Rate, %SpO₂, Pulse Rate, EtCO₂, Respiration Rate, Systolic, Diastolic, No Respiration
 Fixed Alarms: Asystole, FiCO₂ (> 3 mmHg)
 Alarm History: 25 most recent alarms
 Indicators: Audible, Yellow Equipment Alarm LED's, Red Patient Alarm LED's, and Message Window

Operating Modes

Patient Modes: Neonate or Adult
 NIBP Modes: Manual, STAT or automatic (at preset intervals)
 Other Modes: Stand-by mode and Sleep Mode

Display

Numerics: HR, PR, %SpO₂, NIBP (Systolic, Diastolic and MAP or PR), EtCO₂ (mmHg, % or kPa), RR, Temp (in °F or °C)
 Waveforms: Configurable (up to 3) ECG, SpO₂, Impedance Resp, CO₂
 Sweep Speed: 12.5, 25, 50 mm/sec (ECG, SpO₂)
 3.0, 6.25, 12.5 mm/sec (Resp, CO₂)

Physical Dimensions

Fully configured unit with battery
 H x W x D: 6.75 in x 8.5 in x 4.0 in (17.0 cm x 21.5 cm x 10.2 cm)
 Weight: 4.4 lbs (2.0 kgs)

Operating Environment

Operating Temperature: 32 °F to 122 °F (0 °C to 50 °C)
 Storage Temperature: -4 °F to 140 °F (-20 °C to 60 °C)
 Humidity: 15 to 95% RH, non-condensing

Barometric Pressure: 600 to 790 mmHg (80 to 105 kPa)

Power

Source: External AC power or internal battery
 AC Power: 100-240 VAC, 50/60 Hz, 0.5A; 0.5A fuse
 DC (Optional): 12 VDC
 Battery: Smart NiMH battery pack (user removable)
 Charge Time: 3-5 hrs
 Operating Time: 3 hrs (750E-4 with NIBP at 15 minute intervals)
 Chassis Leakage Current: 100 μ A (maximum)

Standards

ANSI/AAMI SP-10: 2002
 EN 60601-1, EN 60601-1-2, EN 60601-2-27, EN 60601-2-30, EN 60601-20-49, EN 864, EN 865
 UL Listed - UL 60601-1, CAN/CSA C22.2 No. 601.1
 CE Marking according to Directive 93/42/EEC

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CAS MEDICAL SYSTEMS, INC.
 TECHNOLOGY APPLIED TO MEDICINE



Certificate Number FM72259

Products are CE marked

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