

Display

(640 x 480 pixels) RGB compatible with VGA monitor (CRT / TFT-LCD)

Waveform field

Configurable screen for maximum 4 waveforms (ECG, SpO₂, Resp, Invasive BP or Capnography/AGM). Possible to view any 4 ECG leads, if 5-lead ECG cable is connected (5 lead version)

Digital field

HR/PR, Resp, SPO₂, T1, T2 or ΔT, IBP1, IBP2 and NIBP (Systolic, Diastolic and Mean), N₂O, EtAA, FiAA, MAC, EtCO₂ and FiCO₂. On screen display of alarm limits/status.

Trace speed

12.5, 25 or 50mm/sec for ECG, Invasive pressure waveform and Plethysmograph. 6.25, 12.5 or 25mm/sec for Respiration, anaesthetic agent and side stream Capnogram (with 14", 640 x 480 pixel display)

Optical Encoder

Rapid access to all the functions and parameter settings through single knob. Quick action hot keys for Alarm mute, NIBP Start/Stop, IBP Zero, Recorder On/Off, Freeze and return to the main screen.

3/5 lead ECG monitoring

Automatic detection of 3 or 5 lead ECG cable. Display of I, II, III with 3-lead cable and I, II, III, aVR, aVL, aVF and V with 5-lead cable. In built cautery and defibrillator protection.
HR range : 20 to 270 bpm, ST segment analysis possible accuracy : 2 bpm or 2% whichever is greater
Programmable arrhythmia detection (Bradycardia, Tachycardia, Asystole, Irregular & Skipped beat)

Respiration

Impedance pneumography principle (when sourced from ECG cable). Display of respiration waveform with respiration rate.
Respiration range : 4 to 150 bpm
User selectable apnoea alarm delay : 5 - 90sec. (steps of 5 sec.)

Capnography

Side stream Capnography with display of CO₂ waveform and digital values of EtCO₂ and FiCO₂.
CO₂ gets priority for calculating respiration rate.
Gain 20, 40, 60 & 80 mmHg. Flow rate : 140 ml/min. (+20 / -10)
CO₂ measurement is possible in mmHg / Kpa / Vol%
EtCO₂ range : 0 - 80 mmHg, Resolution : +/- 1mm Hg
RR Range 0 - 150 bpm, Apnoea alarm delay : 30 sec.

Temperature

Simultaneous monitoring of two temperatures. Display of T1 and T2 or ΔT (if difference between T1 & T2 is less than 9.9°C)
Temperature range: 12°C to 43°C

Pulse Oximetry

Pitch variation with change in oxygen saturation.
SpO₂ range: 0 - 100%
Display of pulse strength, plethysmograph, PR and SpO₂ values.
Accuracy : 100 to 70 % (+/- 2 digits), 69 to 50 % (+/- 3 digits), 49 to 0 % (unspecified)
Accuracy in neonatal monitoring 100 to 70% (+/- 3 digits)

UPS is recommended for providing back up to the external monitor, in case of mains power failure. *Galaxy* does not offer battery backup for the external monitor.

Made in India by



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Technical Specifications

Designed to meet the requirements of following international standards:

Class A, Type CF of IEC 601-1
Level 2 of IEC 1000 - 4 - 4 and IEC 1000 - 4 - 5

Anaesthesia gas monitoring

AGM gets priority for calculating Respiration rate.
Flow rate: 150ml/min +/-20ml/min
Range: N₂O: 0 - 100 Vol%, Halothane & Isoflurane: 0 - 8.5 Vol%, Enflurane, Sevoflurane & Desflurane: 0-10 Vol%
EtCO₂: 0 - 75mmHg, RR : 0 - 150 bpm.
User selectable apnoea alarm delay : 5 - 90sec. (steps of 5 sec.)
CO₂ is a part of AGM, if AGM option is present

Non-Invasive Blood Pressure

Oscillometric Principle, Display of Systolic, Diastolic & Mean pressure
Modes: Manual, STAT (5min), Automatic (interval 2 min. to 90 min.)
Range : 20 to 255mmHg. Accuracy : +/-5 mmHg

Invasive Blood Pressure

Simultaneous monitoring of 2 channels.
Display of Systolic, Diastolic and Mean pressure with respective waveform of IBP1 and IBP2. Individual and common channel zeroing. Labeling facility with automatic limits/gain/colour setting.
Pressure channel overlapping option available.
IBP scale : 300, 150, 60, 30, 20 & 10mmHg, Range : -40 to 300mmHg.

Alarms

Alarm setting for all parameters.
Patient alarm : RED flashing with audio and message indicator
Equipment alarm : YELLOW flashing with audio and message indicator. Alarm auto-set facility provided.
Alarm suspend : Continuous YELLOW
Auto setting of alarm for HR/PR, SpO₂, IBP1, IBP2, EtCO₂, FiCO₂, EtAA, FiAA, ST, Respiration and Temperature.
Re-alarm facility : 3 min. for acknowledged alarm

Trends

24 hr. of Graphical and Tabular trend for HR/PR, SpO₂, IBP1, IBP2, EtCO₂, FiCO₂, EtAA, FiAA, ST, Respiration & Temperature .
NIBP trend : Last 240 readings (tabular)
Alarm Recall : Last 16 alarm events with date, time and message.
2hr. zoom for graphical trends with mark, record and print facility.

Recording (optional)

Optional in-built dual channel thermal recorder for recording two waveforms (selectable) with numerical data and alarm status.
NIBP and tabular trend recording with patient information.
Direct / Delayed / Continuous modes of recording.
Record On Alarm facility (selectable)

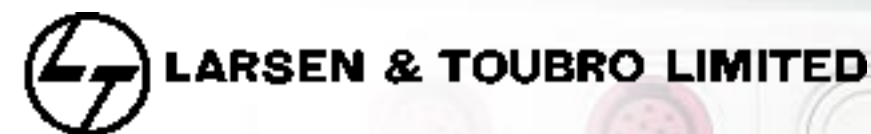
General

Dimension : 100 X 350 X 300 mm (H X W X D)
Weight : 6.5 kg. with in-built batteries, Capnography and recorder.
Galaxy with AGM upgrade is not designed to work with *Skyline* - L&T's colour central monitoring system

Power Supply

Universal power supply : 95-265V AC, 50 / 60 Hz
Power ratings : 40 Watt
Battery type : 12V, 4Ah lead acid
Operating time : 30 min. for fully charged battery (with full load & NIBP auto mode 2 mins. interval & recorder on for 2 mins.)
Charging time : 90% charge in 12 hr. for fully discharged battery

Technological upgradation is a continuous process. Specifications and availability of the products mentioned in the leaflet are subject to change without notice. All the accessories and modules mentioned in the leaflet are optional and are not a part of the standard scope of supply, unless otherwise specified in the written quotation from L&T.



Galaxy



Widen your vision

Salient Features

- Configurable 4 channel monitor with external display (15" or 17")
- Optional Anaesthesia gas monitoring
- 24 hr. graphical & tabular trends with zoom facility (non-volatile)
- Graded and colour coded alarms with auto-limit settings (2 stages)
- Optional in-built dual channel thermal array recorder
- Critical alarm recall facility
- Interface facility with '*Skyline*' - L&T's colour central monitoring system



Best in class... Built with care

An upgradable monitor with ECG (3/5 Lead), Respiration, Dual Temperature, Non Invasive BP, Dual Invasive BP, Pulse Oximetry, Capnography or Anaesthesia gas monitoring with 2 channel Recorder

Configurations:

Galaxy	ECG	Resp	Dual Temp	NIBP	SpO ₂	Dual IBP
ERT	●	●	●	●	●	●
ERTN	●	●	●	●	●	●
ERTS	●	●	●	●	●	●
ERTNS	●	●	●	●	●	●
ERT2P	●	●	●	●	●	●
ERTNS2P	●	●	●	●	●	●

CO₂, AGM & Recorder options are available with all the models
Future upgrade includes cardiac output



All ECG screen



Graphical trend



NIBP Trend



Alarm Recall



IBP Overlap



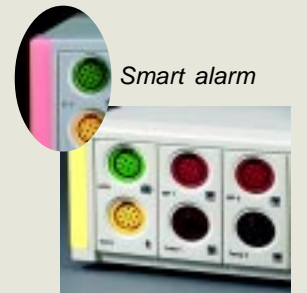
ST Edit



Galaxy with Anaesthesia gas monitoring (AGM) option & ST segment analysis (AGM module includes CO₂ monitoring)



Galaxy with Capnography option



Smart alarm

Red for critical alarms & Yellow for equipment alarms



Anaesthesia gas monitoring (AGM) for monitoring anaesthetic agent, N₂O, CO₂, MAC & RR (optional)



Dual channel thermal array recorder for recording any 2 waveforms with numerical data & alarm status (optional)



Sidestream capnography for monitoring EtCO₂ and FiCO₂ with respiration (optional)