

Light Monitor

Portable vital signs monitor for transport and bedside use



Features

- Designed for transport between care areas and for bedside observation in anesthesia, critical and stepdown care areas or in the emergency department
- Preconfigured with optimized keys to help ensure efficient monitoring, including direct access keys for the functions you use most
- Automatic numerical and graphical patient data trending of all parameters
- Optional 3-channel recorder allows you to print waveforms and trend data
- Optional back-up battery or battery module for continuous monitoring
- Optional network connection to the iCentral enables central viewing, alarms and printing, as well as real-time remote information transfer to other Datex-Ohmeda compatible monitors in the network
- Datacard option supports data collection during transport and data transfer between care areas
- Large color display provides outstanding visibility and a wide range of viewing angles
- Connection to the external display maximizes the visibility at the bedside
- Ability to upgrade with recorder, battery module, CO₂, Datacard and network options
- Balanced handle with hooks makes it easy to lift, carry and attach to bed or wall rail



Technical Data

Display

Display size and type	8.4 inch Active Matrix Color TFT
Display resolution	640 x 480

Dimensions and weight

Monitor (WxDxH)	325 x 160 x 210 mm/ 12.8 x 6.3 x 8.3 in
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Battery module (WxDxH)	290 x 150 x 40 mm/ 11.4 x 5.9 x 1.6 in
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Weight without battery	4.2 kg/9.3 lb
Weight with battery	6.1 kg/13.5 lb

General

Input voltage	12.5 V DC
Graphical trends	2, 4, 12 and 24 h
Numerical trends	All parameters, sampled every 5 min and after NIBP measurement
Alarms	Adjustable high and low alarms for HR, Resp, NIBP, SpO ₂ , Temp, Invasive Pressures and CO ₂
Safety standards	Designed to meet IEC 60601-1, CAN/CSA C22.2 No. 601.1-M90 and UL 2601-1, CE-marking according to Directive 93/42/EEC
I/O connections	RS-232 serial output, Defib. sync. signal, Nurse Call and Local printer, VGA output

ECG

Measured leads	I, II or III
Frequency response	0.5 to 30 Hz (-3 dB, with 50 Hz reject filter) 0.5 to 40 Hz (-3 dB, with 60 Hz reject filter)

Pacemaker pulse detection	
detection level	5 to 500 mV
pulse duration	0.5 to 2 ms
Sweep speed (trace)	12.5, 25 or 50 mm/s

Heart rate/Pulse rate	
Measurement range	30 to 250 bpm
Measurement accuracy	± 5 % or ± 5 bpm whichever is greater

Respiration

Measuring range	Impedance, 0.2 to 6 ohm
Max. base impedance	5 kohm
Respiration range	4 to 120 resp/min
Measurement accuracy	± 5 % or ± 5 resp/min whichever is greater
Sweep speed (trace)	slow 0.62 mm/s, fast 6.25 mm/s

Pulse oximetry (Ohmeda SpO₂)/Pleth

Measurement range	40 to 100 %
Measurement accuracy*	100 to 80 %, ±2 digits (± 1SD) 80 to 50 %, ±3 digits (± 1SD) 50 to 40 %, unspecified Plethysmographic pulse waveform

Non-invasive blood pressure

Measurement range	adult	25 to 260 mmHg
	child	25 to 190 mmHg
	infant	15 to 140 mmHg
Typical measurement time	adult	23 s
	infant	20 s

Temperature

Measurement range	10° to 45°C (50° to 113°F)
Measurement accuracy	±0.1°C (25° to 45.0°C) ±0.2°C (10° to 24.9°C)
Probe type	Compatible with YSI 400 series

Invasive blood pressure (F-LMP1 models only)

Measurement range	-40 to 320 mmHg
Measurement accuracy	± 5 % or ± 2 mmHg
Transducer sensitivity	5 µV/V/mmHg

CO₂ Mainstream (Optional)

Measurement range	0-99 mmHg / 0-13 vol % / 0-13 kPa
Accuracy**	0-40 mmHg / 0-5.3 vol %: ±2 mmHg / ±0.3 vol % 41-76 mmHg / 5.3-10 vol %: ±5 % of reading 77-99 mmHg / 10-13 vol %: ±10 % of reading
Respiration range	4-150 breaths/minute
Calibration	No routine calibration required
Mainstream CO ₂ sensor weight	<18,5 g (excluding cable)
Cable length	3 m
Warm-up time	< 80 s (from 25°C ambient)
Measurement rise time	100 ms

Power Adapter

AC voltage range	220-240 V / 100-120 V ~ 50/60 Hz
Allowed AC voltage fluctuations	100 V -10 % to 120 V +10 %, 220 V -10 % to 240 V +10 %
DC output voltage	12.5 V and 18.5 V
Protection class	Class I

Light Monitor Battery Module (optional)

Type	NiCd battery
Capacity	Up to 2 hours (1 h/batt) typical on full charge at 23°C
Recharging	When connected to line power or DC (N-LPOW)
Charging time	3.5 h/battery to full capacity

Backup Battery (optional)

Type	Built-in NiCd battery
Capacity	Up to 30 min typical on full charge at 23°C
Recharging	When connected to line power or DC (N-LPOW)
Charging time	1.5 h/battery to full capacity

* Accuracy is based on deep hypoxia studies using OxyTip+ Finger Sensors on volunteered subjects. Arterial blood samples have been analyzed by a Radiometer OSM Co-oximeter. Refer to OxyTip+ sensor instructions for use for specific SpO₂ accuracy.

** Typical value.

*** Accuracy specifications are based on testing the monitor and sensor on healthy adult volunteers in induced hypoxia studies.

The Light Monitor is intended for patients with weight from 5 kg/11 lb up. Respiration monitoring is intended for patients three years old and up.

For accessories, please refer to the GE Healthcare Accessories and Supplies catalog.

Ordering information for options

Description	Order code
Mainstream CO ₂ sensor	902300
Built-in 3-channel thermal array recorder	N-LREC
Network to Datex-Ohmeda Central	N-LNET
Patient trend data collection to DataCard, PCMCIA	N-LDATA
Network and DataCard	N-LDNET
Power adapter 110/220 V	N-LPOW
Battery module w/ two batteries****	F-LBAT
Built in backup battery****	N-LBB
External battery charger w/ two batteries	N-LCHGR

**** You can select only either the battery module (F-LBAT), or the back-up battery (N-LBB)

Ordering information

Order code	ECG	Resp	NIBP	SpO ₂	Temp	2xInvBP	main st. CO ₂ (opt)
F-LM1	•	•	•	•	•		
F-LMP1	•	•	•	•	•	•	
F-LCM							•

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