

# GIMA VITAL SIGNS MONITORS

"Vital Signs" is a line of small multi-parameter patient monitors, which can monitor the vital physiological parameters: non-invasive blood pressure (NIBP), pulse oxygen saturation (SpO<sub>2</sub>), electrocardiogram (ECG) and temperature (TEMP).

Features:

- small size, clear and bright display (14x17 cm) for remote view
- up to 12,000 groups of NIBP measurements can be stored and listed
- up to 96 hours of SpO<sub>2</sub> and HR trend curve can be displayed
- built-in rechargeable battery, 2 hours use (35120-2) or 3 hours (35124)
- USB port (35124 only)
- optional built-in thermal printer

GIMA code	MONITOR	SpO <sub>2</sub>	NIBP	ECG	TEMP
35120	VITAL-S	•			
35121	VITAL-SNT	•	•		•
35122	VITAL-SNET	•	•	•	
35124	VITAL PRO-SNET	•	•	•	•
35125	Printer* - optional	* Installation done by Gima if ordered with monitor.			
35141	Paper 5.1 cm x 12 m - box of 5	Need service if ordered later.			
35126	Lead acid re-chargeable battery - spare for 35120-2				
35129	Lithium re-chargeable battery - spare for 35124				
35135	Adult SpO <sub>2</sub> probe - spare				
35136	Pediatric SpO <sub>2</sub> probe				
35137	ECG cable - spare				
35140	NIBP cuff - 10-19 cm - pediatric				
35142	NIBP cuff - 18-26 cm - pediatric XL				
35139	NIBP cuff - 21-35 cm - adult				
35143	NIBP cuff - 27-42 cm - adult XL				
35127	Trolley - adjustable 73 to 113 cm				
35128	Rail clamp				

STANDARD ACCESSORIES	35120	35121	35122	35124
- Adult SpO <sub>2</sub> probe	•			
- NIBP adult cuff		•	•	•
- Temperature probe - skin type			•	•
- ECG cable + 10 ECG electrodes			•	•
- Lead acid battery	•			
- Lithium battery				•
- Manual (English)	•	•	•	•



TECHNICAL SPECIFICATIONS	
<b>NIBP</b>	Pulse rate measurement accuracy: ± 2 bpm or 2% whichever is greater
Technology: Oscillometric method	Standard measurement range: Size: 18.5 x 18 x h 29 cm Weight: 2.4 kg
Standard measurement range:	Systolic: Adult: 50 - 240 mmHg
Systolic: Adult: 50 - 240 mmHg	Diastolic: Adult: 15 - 180 mmHg
Diastolic: Adult: 15 - 180 mmHg	MAP: Adult: 25 - 200 mmHg
MAP: Adult: 25 - 200 mmHg	Measurement mode: Manual, Auto, STAT
Measurement mode: Manual, Auto, STAT	<b>SpO<sub>2</sub></b>
<b>SpO<sub>2</sub></b>	SpO <sub>2</sub> measurement range: 0 - 99%
SpO <sub>2</sub> measurement range: 0 - 99%	SpO <sub>2</sub> measurement accuracy: 75 - 99% ±2%
SpO <sub>2</sub> measurement accuracy: 75 - 99% ±2%	50 - 74% ±3%
50 - 74% ±3%	Low perfusion performance: 0.4%
Low perfusion performance: 0.4%	Pulse rate measurement range: 30bpm~240bpm
Pulse rate measurement range: 30bpm~240bpm	<b>Power</b>
<b>Power</b>	AC power supply: 100 - 250V, 50/60 Hz
AC power supply: 100 - 250V, 50/60 Hz	Internal power supply: 12 VDC (rechargeable)
Internal power supply: 12 VDC (rechargeable)	Battery:
Battery:	12V 2,3AH (lead-acid battery) (35120-2)
12V 2,3AH (lead-acid battery) (35120-2)	11.1 V, 4,400 mAh lithium battery (35124)
11.1 V, 4,400 mAh lithium battery (35124)	

# PC-3000 MULTI-PARAMETER PATIENT MONITOR



- 35134 PC 3000 MULTI-PARAMETER PATIENT MONITOR
- 7" high resolution colour TFT display, 5-channel waveform display
- standard parameters: ECG, RESP, SpO<sub>2</sub>, NIBP, 2-TEMP, PR; Arrhythmia analysis and ST segment analysis
- up to 12,000 groups parameter data & 60-hour ECG waveform storage and recall
- 1,000-hour graphic and tabular trends for all parameters
- 7-channel ECG simultaneous waveforms display
- protection against interference from defibrillator, electrosurgical knife
- adult / pediatric measurement modes
- visual and audible alarms; networking capability
- carrying handle with bed-hooks

STANDARD ACCESSORIES		
1 ECG cable	1 NIBP cuff	10 Disposable electrodes
1 SpO <sub>2</sub> probe	1 Li-ion battery	1 Body surface temperature transducer
1 AC power Adapter	1 Power cable	User manual

GIMA code	ACCESSORIES - SPARES
35135	Adult SpO <sub>2</sub> probe - spare
35136	Pediatric SpO <sub>2</sub> probe
35137	ECG cable - spare
35138	Li-ion battery - spare
35140	NIBP cuff - arm circumf. 10-19 cm - pediatric
35142	NIBP cuff - arm circumf. 18-26 cm - pediatric XL
35139	NIBP cuff - arm circumf. 21-35 cm - adult - spare
35143	NIBP cuff - arm circumf. 27-42 cm - adult XL

TECHNICAL SPECIFICATIONS	
<b>NIBP Monitoring</b>	Automatic measurement by oscillating method
Measuring method:	Adult mode: <180mmHg infant mode: <120mmHg
Initial cuff inflation pressure:	Adult mode: 300mmHg Infant mode: 240 mmHg
Overpressure protection limit:	
<b>Measuring range</b>	
Systolic pressure:	Adult: 40-225 mmHg Infant: 40-200 mmHg
Diastolic pressure:	Adult: 20-215 mmHg Infant: 20-165 mmHg
Mean arterial pressure:	Adult: 10-195 mmHg Infant: 10-150 mmHg
Measurement accuracy:	Systolic ±10% Diastolic ±10% MAP ±10%
Measurement mode:	Manual, Auto, STAT
Automatic measuring:	1-240min
<b>TEMP Monitoring</b>	
Measuring range, accuracy:	25.0 - 45.0 °C, ±0.2°C
<b>SpO<sub>2</sub> &amp; Pulse Rate Monitoring</b>	
Transducer:	dual-wave length LED
SpO <sub>2</sub> measuring range:	35%-100%
Low perfusion capability:	0.4%-5%
SpO <sub>2</sub> display accuracy:	70%-100% ±3%
PR measuring range:	30bpm-250bpm
PR measuring accuracy:	±2bpm
<b>ECG Monitoring</b>	
Heart rate measurement:	±0.4 mVp - ±5 mVp
Heart rate display range:	20 - 250bpm
Display accuracy*:	±1% or ± 2 bpm, whichever is greater
Heart rate alarm delay time:	≤10s
Sensitivity selection:	Auto, x1/2, x1, x2, x4
Sweeping speed:	12.5 mm/s, 25 mm/s, 50 mm/s
Common-mode rejection ratio:	≥89 dB
Frequency response:	Monitoring mode: 0.5 - 40 Hz Diagnostic mode: 0.05 - 75 Hz
<b>RESP Monitoring</b>	
Monitoring range, accuracy:	0 - 120 rpm, ±5% or 2 rpm, whichever is greater
RESP alarm range:	0 - 100 bpm ±10%
<b>Other Technical Specifications</b>	
Power supply:	100 - 250 Vac, 50/60 Hz <80 VA
Networking port:	serial/Net port

