

NewTech[®]



Patient Monitor NeuVision 500

[Http://www.newtech-medical.com](http://www.newtech-medical.com)



FEATURES

- Compact design with light weight, suitable for emergency case
- 7" high resolution color LCD monitor
- Standard parameters: ECG, RESP, SpO₂, NIBP, TEMP, PR
- Medicine dosage calculation and analysis
- Automatic analysis of 20 arrhythmia waveforms and VPC
- 7-channel ECG wave form display simultaneously
- Auto or manual ST segment measurement
- 480-hour graphic and tabular trends for all parameters
- 100 groups all parameters data and 36-hour ECG data storage and recall
- Up to 800 groups NIBP measurement data storage and recall
- Protection against in terference from defibrillator and electrosurgical unit
- Be able to work with pacemaker
- Adult&Infant measurement mode
- Networking capability
- Built-in Li-ion rechargeable battery for approx 3 hours operation
- Delicate hook specially designed for ambulance

NeuVision 500



NeuVision

500



Specifications

• ECG

Input signals range in amplitude: $\pm (0.4-5\text{mVp})$
 Heart rate display range: 20-300bpm
 Heart rate display accuracy: $\pm 1\%$ or $\pm 2\text{bpm}$, whichever is greater
 Heart rate alarm delay time: $\leq 10\text{s}$
 Sensitivity selection
 × 1/2, 5mm/mV tolerance: $\pm 5\%$
 × 1, 10mm/mV tolerance: $\pm 5\%$
 × 2, 20mm/mV tolerance: $\pm 5\%$
 Sweeping speed: 12.5mm/s, 25mm/s, 50mm/s
 Tolerance: $\pm 10\%$
 ECG noise level: $\leq 30\ \mu\text{VP-P}$
 ECG input loop current: $\leq 0.1\ \mu\text{A}$
 Differential input impedance: $\geq 5\text{M}\Omega$
 Common-mode rejection ratio(CMRR): $\geq 89\text{dB}$
 Time constant
 Monitoring mode: $\geq 0.3\text{s}$
 Diagnostic mode: $\geq 3.2\text{s}$
 Frequency response
 Monitoring mode: 0.5-40Hz(+0.4dB, -3.0dB)
 Diagnostic mode: 0.05-75Hz(+0.4dB, -3.0dB)

• RESP

Measuring range: 0-120rpm
 Accuracy: $\pm 5\%$ or $\pm 2\text{rpm}$, whichever is greater
 Alarm limit range: 0-120rpm
 Alarm tolerance: $\pm 5\%$ or $\pm 2\text{rpm}$, whichever is greater

• TEMP

Measuring range: 25.0°C-45.0°C
 Measuring accuracy: $\pm 0.2\text{°C}$
 Responding time: $\leq 150\text{s}$

• NIBP

Measuring method: Oscillometric technique
 Pneumatic pressure measuring range: 0-300mmHg
 Accuracy: $\pm 3\text{mmHg}$
 Cuff inflation time: $< 10\text{s}$ (adult cuff)
 Average measuring time: $< 90\text{s}$
 Air release time when measuring is canceled: $< 2\text{s}$ (adult cuff)
 Initial cuff inflation pressure
 Adult: $< 180\text{mmHg}$
 Infant: $< 120\text{mmHg}$
 Overpressure protection limit
 Adult: 300mmHg
 Infant: 240mmHg
 Accuracy
 Maximum mean error: $\pm 5\text{mmHg}$
 Maximum standard deviation: 8mmHg
 Measurement mode: Manual, Auto, STAT
 Measurement range:

Pressure(unit)		Adult	Infant
SYS	mmHg	40-255	40-200
MAP	mmHg	20-215	20-165
DIA	mmHg	10-195	10-150

• SpO₂

Transducer: Dual-wavelength LED
 Wavelength
 Red light: 660nm
 Infrared light: 905nm
 Maximum optical output power: Less than 2mW
 Measuring range: 35%-100%
 Low perfusion capability: 0.4%-5%
 Accuracy: Less than 3% for SpO₂ range from 70% to 100%
 (NOTE: Accuracy defined as root-mean-square value of deviation according to ISO 9919
 Low perfusion performance: The declared accuracy is attained when the pulse amplitude modulation ratio is as low as 0.4%)

• Pulse Rate

Measuring range: 30-240bpm
 Measuring accuracy: $\pm 2\text{bpm}$ or $\pm 2\%$, whichever is greater

• Others

Power supply: 100-240VAC, 50/60Hz
 Power consumption: 20W
 Rechargeable Li-ion battery specification: 14.8V 2200mAh
 Display mode: 7" TFT color LCD
 Resolution: 800x480pixel
 Alarming mode: Audible & visible
 Communication: Serial/Net port

• Classification

Safety standard	IEC 60601-1
The type of protection against electric shock	Class I equipment
The degree of protection against electric shock	Type BF and CF applied parts
Electro-Magnetic Compatibility	Group I, Class A
The degree of protection against harmful ingress of water	Ordinary equipment without protection against ingress of water
The safety degree of flammable gas	It is forbidden to use in the environment where flammable gas exists

Specifications subject to be changed without prior notice

NewTech Medical Limited

8400 Normandale Lake Boulevard, Suite 920,
 Bloomington 55437, Minnesota, U.S.A
 Tel: 1-952-837-2688 Fax: 1-952-400-8947
<http://www.newtech-medical.com>
 E-mail: info@newtech-medical.com

