

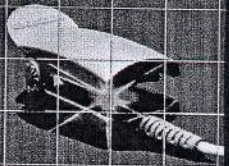
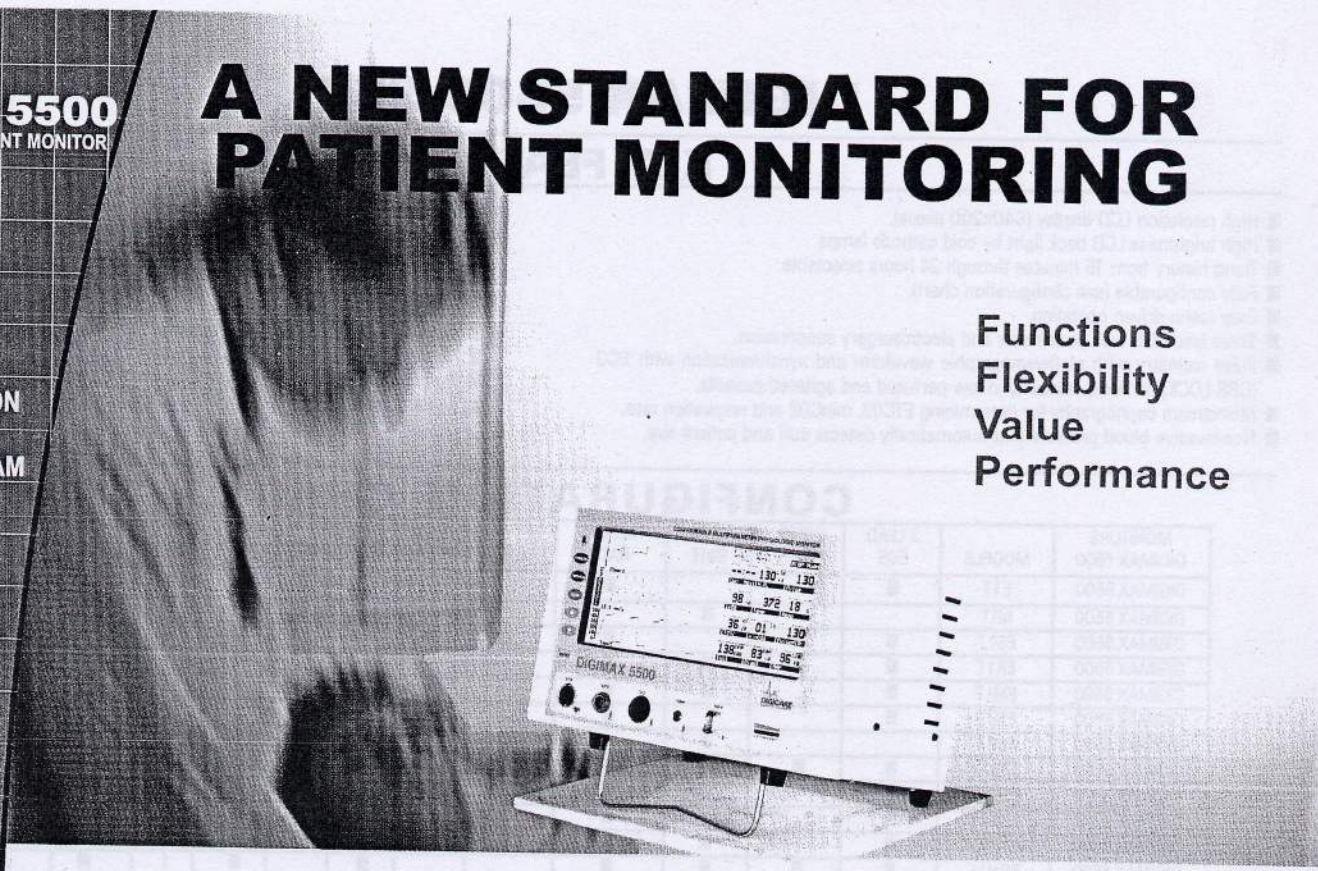
**DIGIMAX 5500**  
MULTIPARAMETER PATIENT MONITOR

# A NEW STANDARD FOR PATIENT MONITORING

**FUNCTIONS**

- ECG
- IMP RESPIRATION
- SpO2
- CO2 MAINSTREAM
- NIBP
- TEMPERATURE
- TRENDS

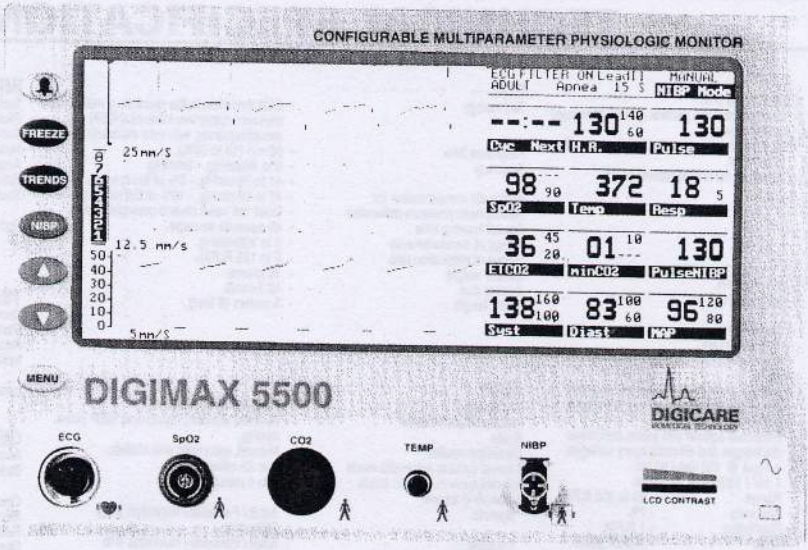
Functions  
Flexibility  
Value  
Performance



Digital Pulse Oximetry

**FEATURES**

- SUPER BRIGHT HIGH RES LCD
- FULLY CONFIGURABLE
- SpO2 SYNC WITH ECG
- MENU DRIVEN
- MAINSTREAM CAPNOGRAPHY
- AUTO SELECTION OF VOLTAGE
- BATTERY OPERATION



The DIGIMAX 5500 brings non-invasive multiparameter monitoring to a new standard. Ease of use, portability, configurability and advanced features make it an ideal monitor to be used throughout the hospital, in transports and in home care applications.

Quality and Technology ... To Touch Life



# DIGIMAX 5500 SERIES

## KEY FEATURES

- High resolution LCD display (640x200 pixels).
- High brightness LCD back light by cold cathode lamps.
- Trend history from 15 minutes through 24 hours selectable.
- Fully configurable (see configuration chart).
- Easy menu driven operation.
- Three lead ECG with pacemaker and electrosurgery suppression.
- Pulse oximetry with plethysmographic waveform and synchronization with ECG (QRS LOCK) for more reliability in low perfused and agitated patients.
- Mainstream capnography for determining ETCO<sub>2</sub>, minCO<sub>2</sub> and respiration rate.
- Non-invasive blood pressure that automatically detects cuff and patient size.
- Thoracic impedance plethysmography for monitoring respiratory effort and rate.
- One YSI 400 (\*) compatible temperature channels.
- Audio-visual alarms for all vital signs.
- Three waveform traces with freezing capability for ECG, SpO<sub>2</sub> plethysmogram and capnogram.
- Automatic selection of mains voltage - 90 Vac to 240 Vac.
- Mains and internal rechargeable battery operation.
- Automatic switching to battery in case of AC mains loss.
- Internal power supply (no hanging external power supply units).

## CONFIGURATION CHART

MONITORS	MODELS	3 LEAD ECG	IMPED. RESP.	RESP. RATE	HEART RATE	SpO <sub>2</sub>	SpO <sub>2</sub> PLETH.	NIBP	CO <sub>2</sub>	TRENDS	TEMP	PULSE RATE	WAVEFORM TRACES	BATTERY
DIGIMAX 5500	E1T	■			■					■	1		3	■
DIGIMAX 5500	MIT			■									1	■
DIGIMAX 5500	ES1T	■			■	■	■			■	1	■	3	■
DIGIMAX 5500	ER1T	■	■	■	■					■	1	■	2	■
DIGIMAX 5500	EM1T	■		■	■				■	■	1	■	3	■
DIGIMAX 5500	EN1T	■			■			■		■	1	■	2	■
DIGIMAX 5500	SM1T			■		■	■		■	■	1	■	2	■
DIGIMAX 5500	ERS1T	■	■	■	■	■	■			■	1	■	3	■
DIGIMAX 5500	ESM1T	■		■	■	■	■		■	■	1	■	3	■
DIGIMAX 5500	ESN1T	■		■	■	■	■		■	■	1	■	3	■
DIGIMAX 5500	ESMN1T	■		■	■	■	■		■	■	1	■	3	■
DIGIMAX 5500	ERN1T	■	■	■	■	■	■			■	1	■	3	■
DIGIMAX 5500	ERSN1T	■	■	■	■	■	■			■	1	■	3	■

ONE TEMPERATURE CHANNEL IS STANDARD FOR ALL MODELS

## TECHNICAL SPECIFICATIONS

### ECG

Patient ECG Lead selection  
Isolation

- DI, DII and DIII.
- Isolated from the general ground 4KV rms/ 5.5 KV peak.
- 90 dB with patient cable disbalanced with 51K / 47nF.
- 20MΩ @ 10Hz with patient cable.

### CMRR

Input impedance

### FREQUENCY RESPONSE:

CRT

- With filter on

- Without filter (diagnostic)

ECG x 1000 OUTPUT:

- With filter on

- Without filter (diagnostic)

Input bias current

Electrode OFFSET

Noise

- 0.5 to 25 Hz.
- 0.5 to 40 Hz.
- 0.05 to 100 Hz.
- Any lead < 200nA dc max.
- 0.5 V.
- < 20μV peak to peak referenced to the input with all leads connected through a 51K / 47nF to the ground.
- Protected against 360 pulses defibrillator discharges and electrosurgery voltages.
- < 10μA @ 120 Vac / 60 Hz.
- 1 mV / 100mS @ 70 B.P.M.
- Range - 20 to 300 B.P.M.
- Accuracy - 1%.
- Resolution - 1 B.P.M.
- Adult - 300 uV peak.
- Neonate - 100 uV peak.
- Automatic in the selected mode.
- 0.1 to 2 mS from 2 to 700 mV.

Defibrillator protection

Leakage current

Test mode

Heart rate

Sensitivity

QRS detection

Pacemaker pulse rejection

### SpO<sub>2</sub>

SpO<sub>2</sub> range

SpO<sub>2</sub> accuracy

- 0 to 100%.
- 70 to 100% - 2%.
- 50 to 69% - 3%.
- 0 to 49% - not specified.
- 30 to 250 B.P.M.
- 2%.
- Finger probe and universal probe (All patients from neonates to adults).
- 9 seconds.
- 15 seconds.

Pulse range

Pulse accuracy

Sensor

Response time

Settling time (average)

### CO<sub>2</sub>

Technology

Response time

Accuracy

Automatic compensation for Atmospheric pressure calibration  
Sensor heating time  
Range of measurements  
Range of respiration rate  
Sensor weight  
Sensor size  
Cable length

- CO<sub>2</sub> detection in the respiratory mainstream with non-dispersive infrared (NDIR) monofrequency, with total modulation.
- 60 mS (10 to 90%).
- 0 to 40mmHg - 2mmHg.
- 41 to 76mmHg - 5% of the reading.
- 77 to 99mmHg - 10% of the reading.
- Does not need routine user calibration.
- 45 seconds average.
- 0 to 100mmHg.
- 0 to 150 R.P.M.
- 10 grams.
- 12.5 mm3.
- 3 meters (9 feet).

### NIBP

Technology

Measured parameters

Scale

Operation modes

Interval cycle in automatic mode

Interval cycle in statistic mode

Measuring ranges:

Systolic

Diastolic

Mean

Range of cuff pressure:

Adult and pediatric

Neonatal

Range of cuff inflation

Cuff sizes

Measurement time

Automatic overpressure cuff depletion:

Accuracy of pressure

Accuracy of pulse

Pulse range

- Automatic oscilometric.
- Systolic, diastolic, mean and NIBP pulse.
- mmHg.
- Manual, automatic and statistic.
- 1 to 99 minutes.
- 1 to 4 minutes.

- Adult / Pediatric / Neonatal: 30 to 250mmHg.

- Adult / Pediatric / Neonatal: 0 to 140mmHg.

- Adult / Pediatric / Neonatal: 20 to 220mmHg.

- 0 to 250 mmHg.

- 0 to 140mmHg.

- Max. of 40 to 50mmHg / seg.

- Neonatal, pediatric, adult and obese adult.

- 50 seconds max.

- 3mmHg.

- 3 B.P.M. from 30 to 120 B.P.M.

- 10 B.P.M. from 120 to 155 B.P.M.

- 30 to 255 B.P.M.

### IMPEDANCE RESPIRATION

Technology

Excitation current

Max electrode impedance

Amplitude

Range of respiratory rate

Sensitivity - Neonatal

- Adult

Pacemaker pulse rejection

- Impedance plethysmography.
- 100μA.
- 65 KHz.
- 4 KΩ.
- Manual adjusted by operator.
- 4 to 150 Resp / minute.
- 0.1 to 10Ω.
- 0.3 to 10Ω.
- 0.1 to 2ms from ± 2 to ± 700mV

### TEMPERATURE (1 channel)

Sensor

Range

Accuracy

Isolation

Leakage current

- YSI 400 (\*) series comp. thermistor.
- 15°C to 45°C.
- 0.1°C from 25°C to 45°C.
- Isolated from the general ground.
- > 4 KV rms / 5.5 KV peak.
- < 10μA @ 120 Vac / 60 Hz.

### GENERAL SPECIFICATIONS

Automatic selection of mains voltage

Battery

Operating temperature

Storage temperature

Relative humidity

Dimensions

Weight

- 90 Vac to 240 Vac (50/60 Hz).
- 2 internal 12 V rechargeable sealed batteries.
- 41°F to 113°F (5°C to 45°C).
- 41°F to 131°F (5°C to 55°C).
- 0 to 90% (non-condensing).
- 11" x 7.5" x 6.5" (280mm x 190mm x 165mm).
- 16 lb. (7.2 Kg).

### SAFETY

EN60601-1-1 and EN60601-1-2 Certified

## AUTHORIZED DISTRIBUTOR