

# DIGIMAX 5500

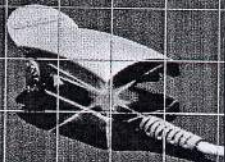
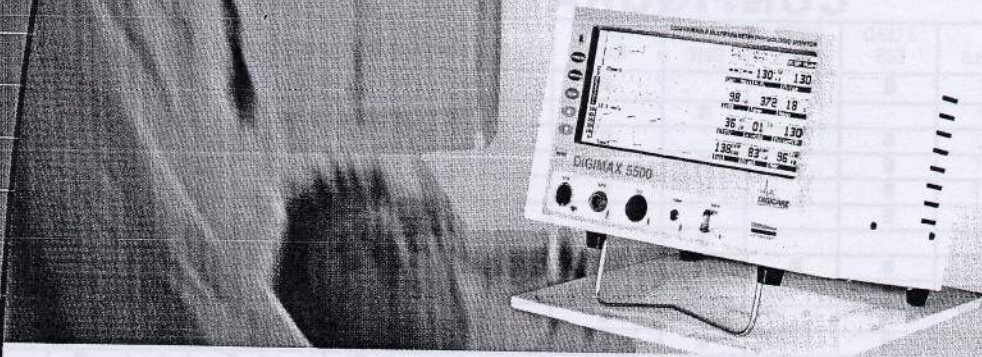
MULTIPARAMETER PATIENT MONITOR

# A NEW STANDARD FOR PATIENT MONITORING

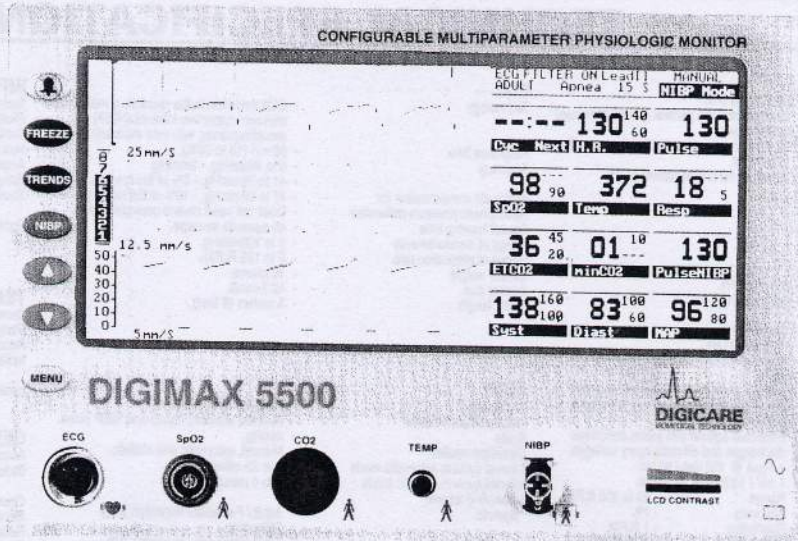
## FUNCTIONS

- 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



**DIGICARE**  
BIOMEDICAL TECHNOLOGY

# 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	MI1T			■							1		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
- CMRR
- Input impedance
- DI, DII and DIII.
- Isolated from the general ground 4KV rms/ 5.5 KV peak.
- 90 dB with patient cable disbalanced with 51K / 47nF.
- 20MQ @ 10Hz with patient cable.

### 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
- Defibrillator protection
- Leakage current
- Test mode
- Heart rate
- Sensitivity
- QRS detection
- Pacemaker pulse rejection
- 0.5 to 25 Hz.
- 0.5 to 40 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 µV peak.
- Neonate
- 100 µV peak.
- Automatic in the selected mode.
- 0.1 to 2 mS from 2 to 700 mV.

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

- SpO<sub>2</sub> range
- SpO<sub>2</sub> accuracy
- Pulse range
- Pulse accuracy
- Sensor
- Response time
- Settling time (average)
- 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.

### 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
- Excitation frequency
- 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 2rms 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