

## DRE Waveline Pro

Monitor con pantalla tactil y funciones multiples

Equipo para la manera en que usted opera

Flexibilidad y funcionamiento superior con una pantalla de prima calidad

### ECG, respiracion, temperatura dual, SpO<sub>2</sub> y presion non-invasiva

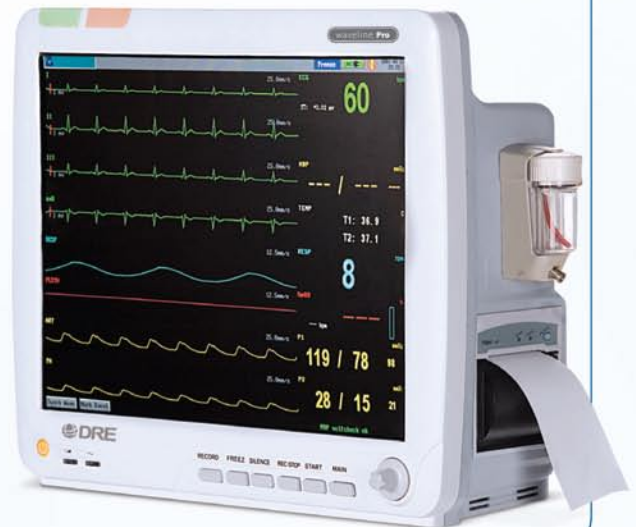
Configuraciones son disponibles que miden capnografia, presion invasiva de emisora dual, y agentes de anestesia y que tienen un imprimador termal incorporado



El monitor de DRE "Waveline Pro" muestra hasta 8 ondas de informacion medica en color en una pantalla de casi 35 cm de alta resolusion. El Waveline Pro es ligero, portatil y mide varios parametros, incluso ECG (de 3 o 5 sensores) con medida de ST segmentada, respiracion, temperatura dual, SpO<sub>2</sub> y presion non-invasiva. Configuraciones son disponibles que miden capnografia, presion invasiva de emisora dual, y agentes de anestesia y que tienen un imprimador termal incorporado.

#### Vistazo Rapidito del Monitor

- » Muestra hasta 8 ondas de informacion
- » Disponible con identificacion automatica de agentes
- » Medida de ECG con sensores multiples
- » Se puede poner los limites para los alarmas en puesto automatico
- » Muestra tendencias en forma grafica y tabular
- » Alarmas con codigos de color
- » La informacion del paciente puede ser metido
- » Apoyo respaldo de bateria
- » Capabilidad de conectar a un ordenador de red
- » Una pantalla grande de casi 35cm y de alta resolusion
- » Disponible con un imprimador termal incorporado



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Equipo para la manera en que usted opera

## Physical Dimensions & Weight

Base Unit: 12.1"/309 mm (H) x 14.4"/365 mm (W) x 6.3"/159 mm (D)  
Weight: 17.6 lbs/8.0 kgs (including anesthetic agents module and batteries)

## Application

Neonatal, pediatric and adult patients

## Performance Specifications

Display: 15" color TFT, Resolution 1024 x 768  
Trace: 8 waveforms  
Indicator: Alarm indicator  
Power indicator  
QRS beep and alarm sound  
Trend time: 1 ~ 48 hours  
Recorder: Built-in, thermal array, 2 channels  
Record width: 1.9"/48 mm  
Recorder paper: 2"/50 mm  
Record speed: 25 mm/s, 50 mm/s

## ECG

Input: 5-lead ECG cable and standard AAMI line for connection  
Lead Choice: I, II, III, aVR, aVL, V, TEST  
Gain Choice: x0.5, x1, x2, x4  
Frequency Characteristic: 0.05 ~ 35 HZ (+3dB)  
ECG Waveforms: 7 channels  
Penetration Voltage: 4000VAC 50/60Hz  
Sweep Speed: 12.5, 25 and 50 mm/s  
HR Display Range: 30 ~ 300bpm  
Accuracy:  $\pm 1$  bpm or  $\pm 1\%$ , whichever is greater  
Alarm Limit Range Setting: Upper limit 100 ~ 200 bpm; Lower limit 30 ~ 100 bpm

## RESP

Measure Method: RA-LL impedance  
Range: 0 ~ 120 rpm  
Accuracy:  $\pm 3$  rpm  
Alarm Limit Setting: Upper limit 6 ~ 120 rpm; Lower limit 3 ~ 120 rpm  
Sweep Speed: 12.5 and 25 mm/s

## TEMP

Range: 25° ~ 50° (C)  
Accuracy:  $\pm 0.2^\circ$  C (25.0° ~ 34.9° C)  
 $\pm 0.1^\circ$  C (35.0° ~ 39.9° C)  
 $\pm 0.2^\circ$  C (40.0° ~ 44.9° C)  
 $\pm 0.3^\circ$  C (45.0° ~ 50.0° C)  
Display Resolution: 0.1° C  
Alarm Limit Setting: Upper limit 0° ~ 50° C, lower limit 0° ~ 50° C  
Channel: 2 channels

## SpO<sub>2</sub>

ASpO<sub>2</sub>: Anti-motion SpO<sub>2</sub>  
SpO<sub>2</sub> % Range: 0 ~ 100%  
SpO<sub>2</sub> Accuracy:  $\pm 2\%$  (70 ~ 100%, non-motion)  $\pm 3\%$  (70 ~ 100%, motion)  
Pulse Rate Range: 30 ~ 250 bpm  
Pulse Rate Accuracy:  $\pm 2$  bpm (non-motion)  $\pm 3$  bpm (motion)  
Alarm Limit Setting: Upper limit 70 ~ 100%, lower limit 70 ~ 100%  
SpO<sub>2</sub> Probe: Red light LED wavelength; 660nm $\pm$ 5nm  
Infrared light LED wavelength; 940nm $\pm$ 10nm

## NIBP

Measuring Technology: Automatic oscillating measurement  
Cuff Inflating: <30s (0 ~ 300 mmHg, standard adult cuff)  
Measuring Period: AVE<40s  
Mode: Manual, Auto  
Measuring Interval in AUTO Mode: 2 min ~ 4 hrs  
Pulse Rate Range: 30 ~ 250 (bpm)  
Measuring Range: Adult/Pediatric Mode  
SYS: 40 ~ 250 (mmHg) DIA: 15 ~ 200 (mmHg)  
Neonatal Mode  
SYS: 40 ~ 135 (mmHg) DIA: 15 ~ 100 (mmHg)  
Resolution: 1mmHg  
Accuracy: Maximum Mean error:  $\pm 5$ mmHg  
Maximum Standard deviation: 8mmHg  
Overpressure Protection: Adult Mode: 300(mmHg) Neonatal Mode: 160 (mmHg)  
Alarm Limit Setting: SYS: 50 ~ 240 mmHg DIA: 15 ~ 180 mmHg

## IBP

Measurement Range: -50 ~ 300mmHg  
Channel: 2 channels  
Pressure Transducer: Sensitivity, 5 $\mu$ V/mmHg  
Impedance Range: 300 ~ 3000 $\Omega$   
Transducer Sites: ART, PA, CVP, RAP, LAP, ICP  
Unit: mmHg/kPa selectable  
Resolution: 1 mmHg  
Accuracy:  $\pm 1$  mmHg or  $\pm 2\%$ , whichever is greater  
Alarm Range: -10 ~ 300 mmHg

## EtCO<sub>2</sub> (Dräger)

CO<sub>2</sub> Measurement Range: 0 ~ 99 mmHg  
Accuracy:  $\pm 2$  mmHg (0 ~ 38 mmHg)  
39-99 mmHg  $\pm 5\%$  of reading + 0.08% for every 1 mmHg (above 38 mmHg)  
Sampling Rate: 50 ml/min  
Initialization Time: 30 seconds (typical), reaches  $\pm 5\%$  steady-state accuracy within 3 minutes  
Respiration Rate: 0 ~ 150 breaths/min  
Mode: Adult, neonate

## Anesthetic Agents

Method: Infrared absorption  
Gas Sorts: Halothane, Isoflurane, Enflurane, Sevoflurane, Desflurane, CO<sub>2</sub>, N<sub>2</sub>O (optional Automatic Agent ID)  
Measurement Range: Halothane, Isoflurane: 0 ~ 8.5%  
Enflurane, Sevoflurane: 0 ~ 10%  
Desflurane: 0 ~ 20%  
CO<sub>2</sub>: 0 ~ 10%  
N<sub>2</sub>O: 0 ~ 100%

## Bias:

Halothane, Isoflurane, Enflurane, Sevoflurane, Desflurane:  $\pm(0.15 \text{ Vol}\% + 15\% \text{ rel.})$   
CO<sub>2</sub>:  $\pm(0.5 \text{ Vol}\% + 12\% \text{ rel.})$   
N<sub>2</sub>O:  $\pm(2 \text{ Vol}\% + 8\% \text{ rel.})$

## Networking

Industry standard 802.11b/g wireless network

## Power

Source: External AC power or internal battery  
AC Power: 100 ~ 240VAC, 50/60Hz, 150VA  
Battery: Built-in and rechargeable  
Charge Time: 4 hours

## Environmental Specifications

Temperature: Operating: 5° ~ 40° C  
Storage: -20° ~ 65° C  
Humidity range: Operating:  $\leq 80\%$   
Storage:  $\leq 80\%$

