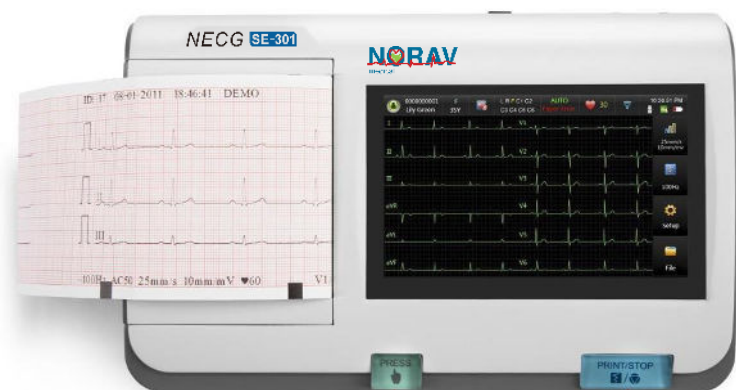


# NECG SE-301

## 3-Channel Thermal Printer ECG



New generation 3-channel ECG, which incorporates the benefits of the advanced technology and innovative design in an extremely compact and lightweight device. It is specifically developed for those who pursue superb portability without compromising on the quality for mobile environments. A variety of fantastic features are embodied in this amazing small unit, making it more than a basic 3-channel ECG.

### NORAV NECG SE-301

- Real 12-lead digital ECG
- Automatic measurement and interpretation
- Color LCD display with touch screen function
- Integrated 3-channel thermal printer

The registered ECG data can be transferred from the NECG SE-301 to the Norav ECG Management System NEMS-Q at any time for further processing or archiving.

### Outstanding features :

- User-friendly and very robust design
- One-button operation
- Full touch operation
- Continuous impedance measurement with cable break alarm
- High resolution signal processing
- Freeze real-time curves
- Integrated thermal printer for folded or roll thermal paper
- Support for external printers via USB
- Automatic battery charging
- High-resolution 5" color LCD display with modern touch screen function
- Communication with barcode scanner for fast data entry
- Advanced signal-to-noise reduction and filters in real-time and playback modes
- Integrated defibrillator protection
- Internal memory storage for Up to 800 ECGs
- Automatic measurement and interpretation with the well-known Glasgow® algorithm
- Simple, fast data transfer to the Norav ECG Management System NEMS-Q
- Many freely selectable print formats

## NECG-SE-301 Specification

<b>Physical Specifications</b>	Dimensions	224 mm×143 mm×54 mm
	Weight	1kg (Excluding recorder paper and battery)
	Display	5 inch, 800×480 multicolor LCD touch screen
<b>Power Supply</b>	Mains Supply	Input: 100V-240V, 50Hz/60Hz AC; Power adapter output: 19V, 2A
	Internal Li-ion Battery	14.8V, 2500mAh; charge time≤3.5 hours (5 hours continuous printing, 500 ECG reports)
<b>Recording</b>	Recorder:	Thermal dot-matrix recorder
	Printing Density	8 dots per mm / 200 dots per inch (amplitude axis) 40 dots per mm / 1000 dots per inch (time axis, @ 25 mm/s)
	Recorder Paper:	Folded thermal paper, 80mm×70mm×200pages Rolled thermal paper, 80mm×20m
	Paper Speed	5mm/s, 6.25mm/s, 10mm/s, 12.5mm/s, 25mm/s, 50mm/s
	External Printer	HP 1010/1510/2010/1050/2000, HP M401/2015/2035/1525, HP 1020/1020PLUS/1106, or HP 1505
<b>ECG Unit</b>	Lead	12 standard leads; simultaneous acquisition
	A/D Resolution	24 bits (0.1575 μV/LSB)
	Sampling Frequency	16,000 Hz
	Time Constant	≥3.2s
	Frequency Response	0.01Hz ~ 300Hz (-3dB)
	Gain	2.5, 5, 10, 20, 10/5, AGC (mm/mV)
	Input Impedance	≥50MΩ (10Hz)
	Input Voltage Range	≤±5 mVpp
<b>Pacemaker</b>	CMRR	≥140dB
	Amplitude; Width	±2 to ±700 mV; 0.1 to 2.0 ms
<b>Filter</b>	AC Filter	On/Off (50/60Hz)
	DFT Filter	0.01Hz, 0.05Hz, 0.32Hz, or 0.67Hz
	EMG Filter	Off/25Hz/35Hz/45Hz
	LOWPASS Filter	300Hz / 270Hz / 150Hz / 100Hz / 75Hz
<b>Data</b>	Network Interface	Ethernet, WiFi (Optional), 4G(Optional)
<b>Safety</b>	Comply with	IEC 60601-1:2005/A1:2012 , EN 60601-1:2006/A1:2013, IEC 60601-1-2:2007, EN 60601-1-2:2007/AC:2010, IEC/EN 60601-2-25
	Anti-electric-shock type	Class I with internal power supply
	Anti-electric-shock degree	CF type with defibrillation-proof
	Patient Leakage Current	NC <10μA (AC) / <10μA (DC); SFC <50μA (AC) / <50μA (DC)
<b>Environment Specifications</b>	Temperature	Working: +5°C (+41°F) ~ +40°C (+104°F) Transport & Storage: -20°C (-4°F) ~ +55°C (+131°F)
	Relative Humidity	15%~95% Non-Condensing
	Atmospheric Pressure	Transport & Storage: 70kPa ~106kPa Working: 86kPa ~106kPa