NK® NEUROPAK® 8 EMG

Options:
- 5- Channel EP/ Somasensory Complete System
- 4-Channel EMG with EP/Somasensory & Printer

Specifications

Amplifiers
- Number of Channels: 4 or 8 channels
- Input Isolation Method: Air Gap Isolation
- Input Impedance: 200MΩ or more
- Noise: 0.6µ Vrms or less at bandwidth 1 Hz to 10 kHz with input shorted
- Sensitivity: 0.01, 0.02, 0.05, 0.1, 0.2, 0.5, 1, 2, 5, 10 mV/div, 1, 2, 5, 10, 20, 50, 100, 200, 500 µV/div
- Low Cut Filter: 0.01, 0.02, 0.05, 0.1, 0.2, 0.5, 1, 2, 5, 10, 20, 50, 100, 200, 500 Hz, 1, 2, 3 kHz at 6 dB/oct
- High Cut Filter: 10, 20, 50, 100, 200, 500 Hz, 1, 2, 3, 5, 10, 20 kHz at 12 dB/oct
- Electrode-to-skin Check Impedance: 2, 5, 10, 20 kΩ indication
- Amplitude Calibration: 1, 10, 100 µV, 1, 10 mV

Averages
- A/D Converter: 12 bits
- Conversion Speed: 1 µs/channel
- Monitor Time Base: 5, 10, 20, 30, 50, 100, 200, 500, 1000 ms/div
- Analysis Time Base: 0.1, 0.2, 0.5, 1, 2, 3, 5, 10, 20, 30, 50, 100, 200, 500, 1000 ms/div
- Time Base Modes: Single, Dual
- Delay Time: 0 to 99.9 ms in 0.1 ms steps and 100 to 500 ms in 1 ms steps with keyboard; -10 to +10 div in 1 div steps with control on operation panel
- Trigger Modes: Recurrent, Random, Foot SW, Signal, Ext, Hammer
- Number of Averages: 1 to 9999 with keyboard; 10, 20, 50, 100, 200, 500, 1000, 2000, 3000, 4000, 800 with control on operation panel
- Artifact Reject: Inhibit Range: -1 to +1, -2 to +2, -3 to +3, -4 to +4, -5 to +5 div on screen or OFF (no artifact rejection)

Display
- CRT: 14 inch diagonal, 16 colors, 1280 x 600 resolution
- Number of Waveforms: Up to 32 waveforms traces simultaneously displayed
<table>
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<tr>
<th>Waveform Display</th>
<th>Modes: MONITOR (free running sweep), SWEEP (triggered sweep), ANALYSIS (averaging)</th>
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<tr>
<td>Cursors</td>
<td>2 cursors each for horizontal and vertical (for amplitude and time measurement)</td>
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<tr>
<td>Scale</td>
<td>10, 20 div</td>
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<td>Grid Display</td>
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**Stimulator Common Functions**

**Stimulus Modes**
Single, Double, Train

**Stimulus Rates**
0.1 to 100 Hz in 0.1 Hz steps with keyboard; 0.1 to 0.9 Hz in 0.1 Hz steps, 1 to 9 Hz steps, 10 to 100 Hz in 10 Hz steps, 13, 15 and 17 Hz with control on operation panel

**Delay Time**
0 to 9.9 ms in 0.1 ms steps, 10 ms to 99 ms in 1 ms steps, 100 to 990 ms in 10 ms steps and 1 to 10 s in 100 ms steps with keyboard; 0 to 9 ms in 1 ms steps, 10 to 90 ms in 10 ms steps, 100 to 900 ms in 100 ms steps and 1 to 10 s in 1 s steps with control operation panel

**Electric Stimulators**

**Number of Outputs**
2

**Stimulus Intensity**
0 to 10 mA in 0.1 mA steps, 0 to 50 mA in 0.2 mA steps or 0 to 100 mA in 1 mA steps

**Stimulus Pulse Duration**
0.01, 0.02, 0.03, 0.05, 0.1, 0.2, 0.3, 0.5, 1 ms

**Recorder**

**Recording Mode**
Continuous, Raster, Hardcopy, Sweep, Trend Monitor, Review

**Recording Speed**
Continuous recording: 1, 2, 5, 10, 25, 50, 100, 200, mm/s, 10, 15, 30 mm/min; Raster recording: 10, 20, 50, 200, 500 ms/div, 1, 2, 5, 10 s/div; Trend monitor recording: 25 mm/s; Other recording modes: 50 mm/s

**Dimensions and Net Weight**

**Main Unit**
1210 mm H x 590 mm W x 720 mm D, approximately 110 kg

**Electrode Junction Box**
175 mm H x 236 mm W x 65 mm D, approximately 2.5 kg

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