



Cochlear
Implant
System

Digisonic® SP



*Technological
elegance....*

Digi SP

Behind the Ear Processor

- Dual DSP technology - Fully reprogrammable
- High resolution FFT (Fast Fourier Transform) signal processing
- Powered by two standard 675 Zinc Air batteries
Average life: 4 days
- Unique dual microphone system to increase speech understanding in noisy environments
- Large choice of accessories (direct FM system, Telecoil, audio cable, handsfree kit)
- Light indicator
- Indicated for children and adults
- Available in 9 colours.



Neurelec
An MXM Company

Humanizing Technology

References

E-SP-TX7	Digi SP Processor alone
I-SP-SD and E-SP-TX7	Full Digisonic®SP System with Digi SP processor
I-SP-ABI and E-SP-TX7	Full Digisonic®SP ABI Auditory Brainstem Implant System with Digi SP processor

General features

- Powered by two standard 675 Zinc Air batteries. Average life: 4 days ⁽¹⁾.
- Weight: 12 g with batteries.
- Digi SP is available in 9 colors. Select when ordering.
- Antenna and antenna lead available in Black (Ref: BL) or Beige (Ref: BE).
- Warranty: • Processor: 3 years*.
• Antenna and lead: 6 months.
- Unique dual microphone system to increase speech understanding in noisy environments.
- Large choice of accessories (direct FM system, Telecoil, audio cable, handsfree kit).
- 2 programme selector. Sensitivity control.
- Light indicator (power on and low battery).
- Indicated for children and adults.

Real time signal processing

- Input dynamic range: 30 to 95 dB SPL.
- Detection of the frequential and temporal features using FFT (Fast Fourier Transform) analysis between 65 Hz and 8 kHz.
- 130 Hz resolution similar to 64 digital filters.

Stimulation strategies

- Dynamic detection of "n" channels of 20 depending on spectral features.
- Energy coding on each frequency band by balanced biphasic pulses.
- Adaptative stimulation frequency up to 1kHz ⁽²⁾ per channel: fixed (MPIS). Sequential stimulation.

Programming and objective measures

- Processor programming by DigiMap SP USB system. Windows 98 SE, ME, 2000, XP and Vista compatible. USB link.
- DigiMap® SP USB diagnosis system (compatible with Windows 98 SE, ME, 2000, XP and Vista) allowing the realization of Electrical Auditory Brainstem Responses (EABR), Stapedius Reflex, Psychoacoustic Tests (such as gap test, etc.).
- Electrode impedance measurement by telemetry.

Contents of Digi SP

- 1 Digi SP Behind The Ear processor - 1 Antenna - 2 Antenna leads - 1 Force 4 Magnet - 1 Tester - 1 Zinc Air 675 battery pack - 1 Hook - 1 Dessication kit - 1 Audio cable - 1 Handsfree kit - 1 Booklet including: 1 User guide, 1 Back-up USB key, 1 Card holder, 1 Warranty Certificate, 1 Warranty Registration Card.

⁽¹⁾ dependant on stimulation strategy, patient characteristics and environment.

⁽²⁾ dependant on electrical thresholds and number of channels.

* See local conditions.

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Anthracite
(ANT)Silver
(SLV)Brown
(BRW)Beige
(BEG)Dark Blue
(DBL)Pink
(PNK)Blue
(BLU)Yellow
(YLW)Green
(GRE)

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