



# g.NAUTILUS RESEARCH

## WIRELESS BIOSIGNAL ACQUISITION

### PRODUCT HIGHLIGHTS

- g.SAHARA dry EEG electrodes
- g.SCARABEO gel based EEG electrodes
- Flexible solution: position the electrodes as you wish; kids' cap available
- 64/32/16/8 channel wireless EEG with 3-axis accelerometer
- 24 bit accuracy at 500 Hz sampling rate (8/16/32 channels)
- 24 bit accuracy at 250 Hz sampling rate (64 channels)
- A new benchmark in usability
- The only wireless system with active technology
- g.tec's unique internal impedance check
- Waterproof device with contactless charging
- 6 hours (64 channels), 10 hours (8, 16, 32 channels) continuous recording and 2–3 hours charging
- 2.4 GHz digital transmission, range: 10 meters indoor
- Full integration into g.tec's software environment
- Used for research applications only

g.Nautilus RESEARCH is the non-certified version of g.Nautilus PRO. Therefore, it is less expensive, and intended to be used for research applications only. The device offers flexible cables to configure the electrode positions as you wish. A dry electrode version based on the worldwide proven g.SAHARA electrodes is available, as well as a version with gel-based g.SCARABEO electrodes with 8/16/32/64 channels.

- g.Nautilus 8/16/32/64, with g.SAHARA dry electrode technology that allows flexible positioning of the electrodes on the cap
- g.Nautilus 8/16/32/64, with a g.SCARABEO electrode system that allows flexible electrode positioning

### TECHNICAL SPECIFICATIONS

Weight	< 140 g without electrode grid (64 channels) < 110 g without electrode grid (8, 16, 32 channels)
Size	78 (L) × 60 (W) × 36 (H) mm (64 channels) 78 (L) × 60 (W) × 26 (H) mm (8, 16, 32 channels)
Color	BLACK
Sensitivity	±2.25 V, ±1.125 V, ±750 mV, ±562.5 mV, ±375 mV, ±187.5 mV (software selectable)
Interface	Wireless 2.4 GHz ISM band
Digital inputs	8 digital trigger inputs at Base Station
Supply	Built-in lithium-ion battery, runtime > 6 h with 64 channels (> 10 h with 8/16/32 channels), inductive charging according to the Qi standard of the Wireless Power Consortium
Amplifier type	Real DC coupled
64 × ADC	24 Bit (1,024 MHz internal sampling per channel)
Noise level	< 0.6 µV RMS between 1 and 30 Hz (at highest input sensitivity)
Input channels	Up to 64 mono-polar / 32 bi-polar channels with GND and REF (software selectable)
Input impedance	DC > 100 MOhm
Safety class	II