g.®*HIamp* 1.0

MULTI CHANNEL BIOSIGNAL AMPLIFIER

g.*HIamp*: a multi-channel high-performance biosignal amplifier designed for EEG, ECoG and spike recording

80, 144 or 256 channels per unit

synchronous sampling with up to 38.4 kHz at 24 bit

passive and active electrodes/headstages can be used

CE certified medical device

API, Simulink interface and recording software 'g.Recorder' available (32/64 bit)

g·tec
GUGER TECHNOLOGIES

Sensitivity	<60nV (LSB), +/-250mV	Input impedance	>100 MOhm
Amplifier type	real DC coupled	Input connectors	standard safety connectors for passive electrodes, 2-pin connectors for active electrodes
256 × ADC	24 Bit (38.4 kHz internal sampling per channel)		
DAC	calibration signal	Weight	1,875 g
Input channels	256 mono-polar / 128 bi-polar (per device, software selectable)	Size	197 (L) × 197 (W) × 90 (H) mm
		Interface	USB

CE certified medical device		Standards	EN60601-1, EN60601-1-2, EN60601-2-25, EN60601-2-26, EN60601-2-40, MDD 93/42/EEC, EN60601-1-4, EN ISO 14971, ANSI/AAMI SW68:2001
Applied part	CF		
Safety class	II		

| Digital Inputs | 2 x 8 digital trigger inputs |
| | 1 x HOLD input (for artifact suppression) |

| Supply | 5V DC, medical mains power supply |

Selected channels	Max. sampling frequency			
	4.800 Hz	9.600 Hz	19.200 Hz	38.400 Hz
≤ 40 ch.	●	●	●	●
≤ 64 ch.	●	●	●	
≤ 80 ch.	●	●	●	
≤ 128 ch.	●	●		
≤ 144 ch.	●	●		
≤ 256 ch.	●			

g.HEADbox - passive   7006

passive electrode connector box - comes with 64 channels and is connected to one of the 4 groups of g.HIamp. It can be used with standard 1.5 mm safety connectors which are standard for EEG and ECoG electrodes.

g.HEADbox - active   7005

active electrode connector box - comes with 64 channels and is connected to one of the 4 groups of g.HIamp. It has 2-pin connectors to support all g.tec active electrodes such as g.LADYbird, g.BUTTERfly or g.SCARABEO.

g.HEADbox16 - passive   7007

passive electrode connector box with 16 channels - comes with 16 channels and is connected to one of the 4 groups of g.HIamp. This connector box is useful to have additional inputs for external sensors.