



Grael LT EEG

# grael<sup>®</sup> LT

Industry-leading value amplifier with research-grade technology.

An AC-coupled, digital amplifier system with a high input range and 22-bit resolution providing amplification and digitization of electroencephalographic physiologic signals. The amplifier provides 38 channels (32 isolated high-frequency referential channels, 6 bipolar channels) and event button input. The unit has a POE 100BASE-TX network connection for both power and communication.

HD EEG

OVER   
DECADES OF ADVANCED  
BRAIN RESEARCH

# Technical specifications



<b>INPUTS</b>	32, AC-coupled, fully isolated, referential (monopolar); 6 user-defined, AC-coupled, fully isolated, bipolar inputs
<b>INPUT IMPEDANCE</b>	>100 M $\Omega$ 1-32; >20 M $\Omega$ 33-40
<b>BIAS CURRENT</b>	typically 1nA
<b>INPUT NOISE</b>	1.8 $\mu$ Vpp typical (referential ch)
<b>INPUT RANGE</b>	600mVpp
<b>CMRR</b>	> 100dB
<b>CROSSTALK</b>	<- 60dB to adjacent channels FSR
<b>HIGH PASS FILTER</b>	0.15 Hz
<b>LOW PASS FILTER</b>	(3dB): 71 Hz at 256 s/s 143 Hz at 512 s/s 284 Hz at 1024 s/s 580 Hz at 2048 s/s

<b>NOTCH FILTER</b>	Software based display filtering of 50Hz, 60Hz, or off
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## ISOLATION SPECIFICATIONS

Complies with IEC 60601-1 CF patient Inputs

## ANALOGUE TO DIGITAL CONVERTER

22 bit resolution

## SAMPLE AND DATA RATES CHANNELS 1 TO 40

Data sampled at 16384 samples per second and decimated to data rates shown below. Actual data rate sent is determined by controlling PC software application.

**Output data rate** 2048, 1024, 512 or 256 samples per second

## COMMUNICATION INTERFACE

**Network Type** 802.3/802.3u twisted pair Ethernet with auto MDIX; RJ45 connector.

## EVENT BUTTON CHANNEL x 1

## SAFETY STANDARDS

**Complies with IEC601-1, IEC60601-2-26, EN60601-1-2, UL60601-1** specifications for medical electrical and electromagnetic equipments & systems

**CE 0120 Mark**

## DIMENSIONS

Grael EEG System Component	Size L x W x H	Weight
<b>Amplifier</b>	240mm x 144mm x 50mm 9.45in x 5.66in x 1.97in	800 grams 28.2 ounces

## ENVIRONMENTAL REQUIREMENTS

<b>Temperature</b>	Ambient operating temperature range: 0°C - 40°C (32°F - 104°F) Storage temperature range: -10°C - 50°C (-4°F - 122°F)
<b>Humidity</b>	20% - 90%-relative humidity (non-condensing)
<b>Altitude</b>	Less than 3,000m

## ELECTRICAL SPECIFICATIONS

<b>Power Supply</b>	All power provided by the network connection using Power Over Ethernet (either mid-span injector or POE Switch, per IEEE 802.3af standard)
<b>Operating voltage</b>	48 volts
<b>Power consumption</b>	<10 watts

## For more information please contact:

### Compumedics Limited, Australia:

**Headquarters**  
30-40 Flockhart Street  
Abbotsford VIC 3067, Australia  
Ph: +61 3 8420 7300  
Fax: +61 3 8420 7399  
Free Call: 1800 651 751

### Compumedics USA, Inc.:

6605 West WT Harris Blvd, Suite F  
Charlotte, NC 28269  
Toll Free: +1 877 717 3975  
Ph: +1 704 749 3200  
Fax: +1 704 749 3299

### Compumedics Germany GmbH:

Global HQ for Compumedics DWL  
Josef-Schüttler-Strasse 2  
D-78224 Singen, Germany  
Ph: +49 7731 79 76 9-0  
Fax: +49 7731 79 76 9-99

All specifications are subject to change without notice. Please contact your Compumedics representative for latest technical information, pricing and product availability. Grael, COMPUMEDICS and the Compumedics logo are registered trademarks of Compumedics.

[www.compumedics.com](http://www.compumedics.com)



Introducing the new  
**grael<sup>®</sup> LT**

Industry-leading value amplifier with research-grade technology. A powerful EEG amplifier aimed at clinical EEG studies.

**KEY FEATURES:**

- Industry leading value amplifier
- Optimised for clinical EEG studies
- Research grade amplifier technologies



**\*GRAEL LT SYSTEM INCLUDES:**

- Grael LT main unit with power supply & support arm
- Profusion EEG 4 software (Digital Video driver as option)
- Photoc Strobe without stand
- Event button
- System Trolley + Isolation Transformer

\*System does not include PC or Cameras.

**For more information or to place an order please contact your local Distributor.**

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Tel: + 49 7731 79 76 9-0  
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