

NCG-ENGAGE HR

Measuring and Modulating Brain Activity

for therapeutic application



Biofeedback system for heart rate determination



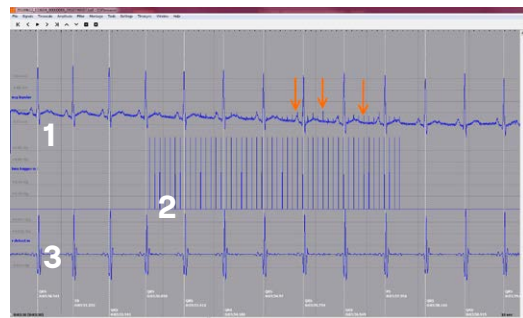
NCG-ENGAGE HR is a biofeedback device according to the FDA Regulation Number 882.5050. The device allows the therapist to measure the heart rate during TMS of the DLPFC (dorsolateral prefrontal cortex). The autonomically working NCG-ENGAGE HR device reports analyzed heart beat intervals permanently.

NCG-ENGAGE HR Features

- Easy-to-use ECG cable for safe recording during TMS
- Touch screen to show data and user interaction
- Stimulation output ECG stored on SD card (EDF+ format)
- Connecting cables for receiving the trigger from different TMS devices

Technical data:

- R wave detection sensitivity 99.9 %
- R wave specificity 99.1 %
- 24 bit resolution / SNR > 90 dB / noise RTI < 15 pp
- ECG input for neuroConn's ECG cable
- input for medical DC power supply
- TTL input via BNC 5V TTL
- SD card: speed class ≥ 10 / memory capacity ≥ 16 GB / reading speed ≥ 90 MB/s / writing speed ≥ 45 MB/s



The NCG-ENGAGE HR provides robust R wave detection.
1) ECG 2) TMS 3) detected R waves