

# W2100-HS32-opto Headstage

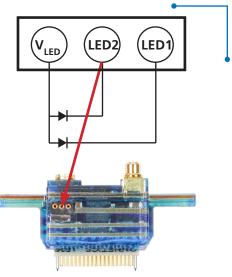
W2100 Headstage equipped with 2-Channel LED Output for Optical Stimulation

W2100-opto-Test Equipped with two LEDs for testing the W2100-HS32-opto. Important: Please use max. 20 mA!



### **Advantages**

- The small-sized headstage provides an interface to connect two LEDs for optical stimulation.
- Small-sized headstage with integrated A/D converter and LEDs for video tracking.
- The W2100-System converts the recorded signals into digital data already on the headstage.
  - The signal-to-noise ratio is excellent and most important, independent from the distance between sender and receiver.



**Connector for optical Stimulation** An additional connector with three pins is available for the optical stimulation via LED: Connector from Mill-Max 1 mm Pitch: 861-13-050-10-002000 + Magnet-cuboid Magna QA-3x1x1-N45-N on the headstage mates with Mill-Max 1 mm Pitch: 860-10-050-10-002000 + Magnet-cuboid Magna QA-3x1x1-N45-N)

## LED supply: V<sub>LED</sub> and LED 1 and LED 2.

Please see the scheme for the electrical circuit. Connect the W2100-opto-Test or the optrode from TBSI for example, in correct orientation as shown on the picture.

## **Applications**

The W2100 headstage is the ideal solution for the measurement of spikes, LFP, EEG, ECG, EMG, and ECoG. Additional inputs to the interface board allow the synchronization of the data with external devices. Equipped with an connector for a opto probe with two LEDs, the headstage supports optogenetic experiments. A programmable interface provides the synchronization of recording and light stimulation.

#### W2100-B-300mAh-BB

Standard battery for W2100-HS32-opto. Please connect the battery board to the headstage.

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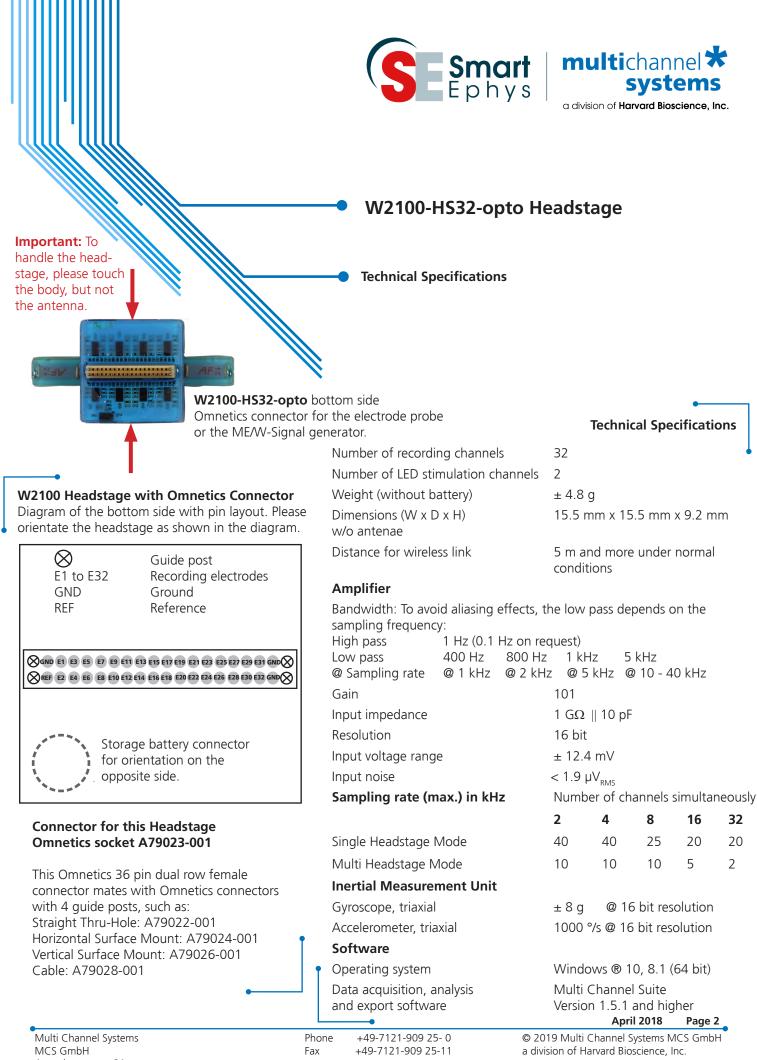
Multi Channel Systems MCS GmbH Aspenhaustrasse 21 72770 Reutlingen Germany

Phone +49-7121-909 25-0 +49-7121-909 25-11 Fax

sales@multichannelsystems.com www.multichannelsystems.com

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Aspenhaustrasse 21 72770 Reutlingen Germany

sales@multichannelsystems.com www.multichannelsystems.com Product information is subject to change without notice.