

## W2100-System Headstages

### W2100-Headstages for:

- Recording
- Recording and Optical Stimulation
- Recording and Electrical Stimulation

### Headstages for Recording

- W2100-HS4 with 4 recording channels.
- W2100-HS8 with 8 recording channels.
- W2100-HS8-SR with 8 recording channels and single row (SR) connector.
- W2100-HS16 with 16 recording channels.
- W2100-HS32 with 32 recording channels.



W2100-HS8 with Omnetics or single row (SR) connector.

### Headstage for Recording and Optical Stimulation

- W2100-HS-opto with 4, 8, 16 or 32 recording channels + interface for 2 optical stimulation channels each.



W2100-HS4-opto with Test LED probe.

W2100-HS32-opto with Test LED probe.

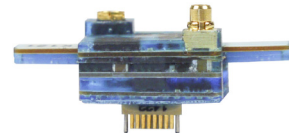


### Headstages for Recording and Electrical Stimulation

#### Internal Stimulation

- W2100-HS8-ES2 with 8 recording channels + 2 electrical stimulation channels.
- W2100-HS14-ES2 with 14 recording channels + 2 electrical stimulation channels.

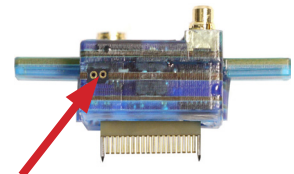
W2100-HS14 with internal electrical stimulation.



#### External Stimulation

- W2100-HS8-ES2-EXT with 8 recording channels + 2 electrical stimulation channels.
- W2100-HS8-SR-ES2-EXT with 8 recording channels + 2 electrical stimulation channels.
- W2100-HS16-ES2-EXT with 16 recording channels + 2 electrical stimulation channels.
- W2100-HS32-ES2-EXT with 32 recording channels + 2 electrical stimulation channels.

W2100-HS32 with external electrical stimulation.



## W2100-System Headstages

### Technical Specifications

#### Type of Headstage

Type of Headstage	Number of Re-cording Channels	Number of Stimu-lation Channels		Weight w/o Battery in g	Sampling Rate in kHz per Channel																		
		elec.	opt.		Single Headstage Mode					Multi Headstage Mode													
					2	4	8	16	32	2	4	8	16	32									
<b>Recording</b>																							
W2100-HS4	4	-	-	<b>1.8</b>	40	25	-	-	-	10	10	-	-	-									
W2100-HS8	8	-	-	<b>2.8</b>	40	40	25	-	-	10	10	10	-	-									
W2100-HS8-SR	8	-	-	<b>3.0</b>	40	40	25	-	-	10	10	10	-	-									
W2100-HS16	16	-	-	<b>2.9</b>	40	40	25	25	-	10	10	10	5	-									
W2100-HS32	32	-	-	<b>3.6</b>	40	40	25	25	20	10	10	10	5	2									
<b>Optical Stimulation</b>																							
W2100-HS4-opto	4	-	2	<b>1.9</b>	10	10	-	-	-	10	5	-	-	-									
W2100-HS8-opto	8	-	2	<b>3.8</b>	40	40	25	-	-	10	10	10	-	-									
W2100-HS8-SR-opto	8	-	2	<b>4.1</b>	40	40	25	-	-	10	10	10	-	-									
W2100-HS16-opto	16	-	2	<b>3.8</b>	40	40	25	20	-	10	10	10	5	-									
W2100-HS32-opto	32	-	2	<b>4.8</b>	40	40	25	20	20	10	10	10	5	2									
<b>Electrical Stimulation</b>																							
W2100-HS with <b>internal Stimulation</b>																							
W2100-HS8-ES2-0.5mA	8	2	-	<b>3.8</b>	40	40	25	-	-	10	10	10	-	-									
W2100-HS8-ES2-2.0mA																							
W2100-HS14-ES2-0.5mA	14	2	-	<b>3.8</b>	40	40	25	25	-	10	10	10	5	-									
W2100-HS14-ES2-2.0mA																							
W2100-HS with <b>external Stimulation</b>																							
W2100-HS8-ES2-EXT-0.5mA	8	2	-	<b>3.8</b>	40	40	25	-	-	10	10	10	-	-									
W2100-HS8-ES2-EXT-2.0mA																							
W2100-HS8-SR-ES2-EXT-0.5mA	8	2	-	<b>3.8</b>	40	40	25	-	-	10	10	10	-	-									
W2100-HS8-SR-ES2-EXT-2.0mA																							
W2100-HS16-ES2-EXT-0.5mA	16	2	-	<b>3.8</b>	40	40	25	25	-	10	10	10	5	-									
W2100-HS16-ES2-EXT-2.0mA																							
W2100-HS32-ES2-EXT-0.5mA	32	2	-	<b>4.5</b>	40	40	25	25	20	10	10	10	5	2									
W2100-HS32-ES2-EXT-2.0mA																							

#### Software for all Headstages

Operating system  
Data acquisition, analysis and export

Windows 10, 8.1 (64 bit)  
Multi Channel Suite, Version 1.5.1 and higher