

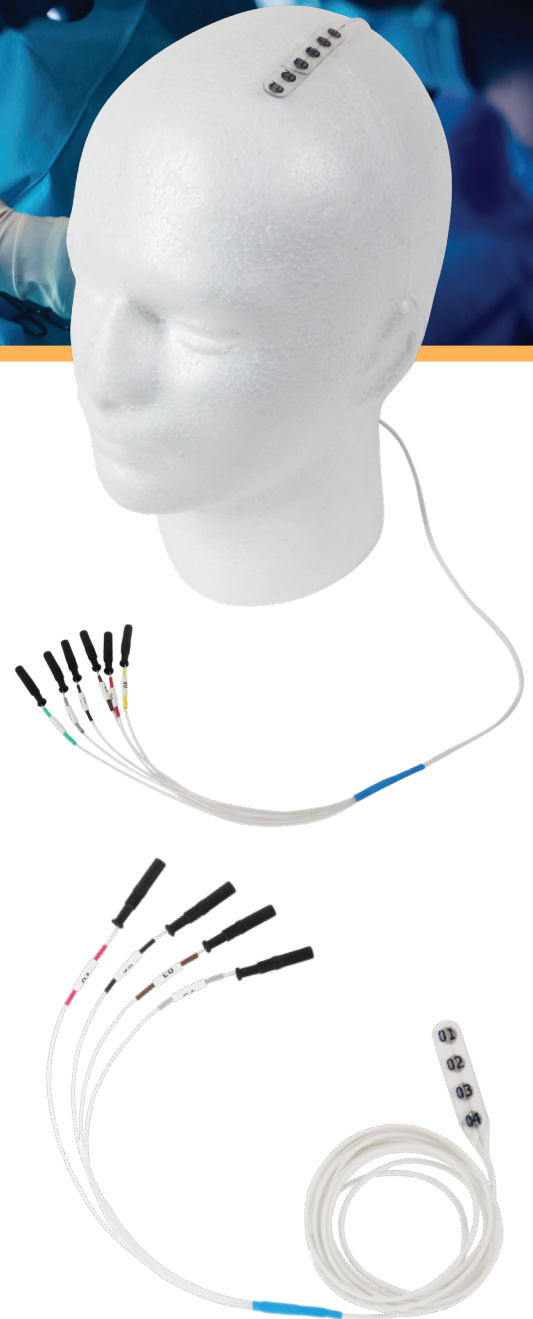


## **INTRAOPERATIVE MONITORING SOLUTION: CADWELL IONM SUBDURAL STRIP & GRID ELECTRODES**

Designed with thin, flexible materials for optimal tissue contact and highly responsive tactile sense, Cadwell® IONM Subdural Strip and Grid Electrodes help deliver reliable performance during intraoperative brain mapping and stimulation.

### **KEY FEATURES**

- Micro-perforations between strips increase flexibility and allow free cerebrospinal fluid flow to optimize contact with brain tissue
- Dome-shaped contacts help improve adherence
- Sterile, single-use electrodes feature integrated leads with touch-proof connectors
- Numbered contacts and touch-proof connectors facilitate quick and easy identification
- Stainless steel contacts measure 6 mm in diameter with 4 mm exposed for recording or stimulation



**SCAN THE QR CODE TO PLACE YOUR ORDER ONLINE**

Contact Cadwell's Supplies and Accessories team at:  
1 (800) 245-3001 | +1 (509) 735-6481 | [supplies@cadwell.com](mailto:supplies@cadwell.com)





Numbered contacts and touch-proof connectors plus color-coded plugs aid ease of identification

302657-000  
Cadwell IONM  
Subdural Grid  
Electrode  
(2 x 8 contacts)



## CADWELL IONM SUBDURAL STRIP & GRID ELECTRODES

PART NO.	PRODUCT	CONFIGURATION	CABLE LENGTH	THICKNESS	STRIP WIDTH
302652-000	Cadwell IONM Subdural Strip Electrode with Lead Attached	1 x 4 contacts	2 m / 6.6 ft	< 0.8 mm	10 mm / 0.4 in
302653-000	Cadwell IONM Subdural Strip Electrode with Lead Attached	1 x 6 contacts	2 m / 6.6 ft	< 0.8 mm	10 mm / 0.4 in
302654-000	Cadwell IONM Subdural Strip Electrode with Lead Attached	1 x 8 contacts	2 m / 6.6 ft	< 0.8 mm	10 mm / 0.4 in
302655-000	Cadwell IONM Subdural Grid Electrode with Lead Attached	2 x 4 contacts	2 m / 6.6 ft	< 0.8 mm	10 mm / 0.4 in
302656-000	Cadwell IONM Subdural Grid Electrode with Lead Attached	2 x 6 contacts	2 m / 6.6 ft	< 0.8 mm	10 mm / 0.4 in
302657-000	Cadwell IONM Subdural Grid Electrode with Lead Attached	2 x 8 contacts	2 m / 6.6 ft	< 0.8 mm	10 mm / 0.4 in
302658-000	Cadwell IONM Subdural Grid Electrode with Lead Attached	4 x 4 contacts	2 m / 6.6 ft	< 0.8 mm	10 mm / 0.4 in

### STIMULATION PARAMETERS

Pulse Duration (ms)	Charge Density ( $\mu\text{C}/\text{cm}^2$ )	Stimulation Intensity (mA)												
		0.2	0.4	0.6	0.8	1.0	1.5	2.0	3.0	4.0	5.0	7.5	10	15
0.1	0.1	0.2	0.4	0.5	0.7	0.8	1.2	1.6	2.4	3.2	4.0	6.0	8.0	12.0
0.2	0.2	0.4	0.7	1.0	1.3	1.6	2.4	3.2	4.8	6.4	8.0	12.0	16.0	23.9
0.3	0.3	0.5	1.0	1.5	2	2.4	3.6	4.8	7.2	9.6	12.0	18.0	23.9	
0.4	0.4	0.7	1.3	2.0	2.6	3.2	4.8	6.4	9.6	12.8	16.0	23.9		
0.5	0.5	0.8	1.6	2.4	3.2	4.0	6.0	8.0	12.0	16.0	19.9	29.9		
0.75	0.75	1.2	2.4	3.6	4.8	6.0	9.0	12.0	18.0	23.9	29.9			
1.0	1.0	1.6	3.2	4.8	6.4	8.0	12.0	16.0	23.9					
1.25	1.25	2.0	4.0	6.0	8.0	10.0	15.0	19.9	29.9					
1.5	1.5	2.4	4.8	7.2	9.6	12.0	18.0	23.9						
1.75	1.75	2.8	5.6	8.4	11.2	14.0	20.9	27.9						
2.0	2.0	3.2	6.4	9.6	12.8	16.0	23.9							
2.5	2.5	4.0	8.0	12.0	16.0	19.9	29.9							
3.0	3.0	4.8	9.6	14.4	19.1	23.9								

$$\text{Charge density } \left( \frac{\mu\text{C}}{\text{cm}^2} \right) = \frac{\text{Stimulation Intensity} * \text{Pulse Duration}}{\text{Electrode Contact Surface Area}}$$

The electrode contact surface area is 0.126 cm<sup>2</sup> and the maximum charge density limit for safe tissue stimulation is 30  $\mu\text{C}/\text{cm}^2$  using charge-balanced biphasic waveforms.