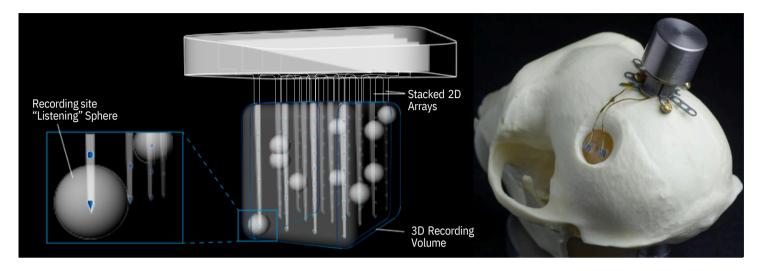


Matrix Array™

The Matrix Array[™] is a versatile neural interface. It can be used in acute or chronic experiments for both small and large animals, interfacing with large populations of neurons in 3D space, up to 10 mm deep.







Advantages

- **3D Neural Interface** The Matrix Array[™] concurrently spans cortical columns and layers, interfacing with a volume of tissue and large populations of neurons.
- Robust Lab-tested and refined to the smallest detail, the Matrix Array[™] can withstand demanding chronic applications.
- Versatile The modular assembly of the Matrix Array allows for varied configurations: record from cortical and/or subcortical areas, as well as from the brain surface, all with the same probe. Electrode length, site area, and shank/site spacing can all be customized for your application.
- **High Channel Density** Record and stimulate from 64 to 256 channels.
- Refined surgical procedure NeuroNexus worked closely with labs to develop a low-speed, low-risk, automated implantation procedure, reducing recovery time and preserving tissue health.
- **Optogenetics-compatible** Configure a Matrix Array with an integrated optical fiber for novel optogenetics applications.



Matrix Array™

Primate

Small Animal

Channel Count	64, 128, 256	Channel Count	64, 128
X-Axis (2D Array)	1800 µm max width	X-Axis (2D Array)	1800 µm max width
Y-Axis (2D Array) Spacing Options	200, 300, 400, 600, 800, 1000µm (specify when ordering)	Y-Axis Spacing Options (Slots - see channel count)	200 μm, 300 μm, 400 μm, 600 μm, 800 μm, 1000 μm (specify when ordering)
Z-Span (Depth)	Up to 10 mm (varies by array design/selection)	Z-Span (Depth)	Up to 10 mm (varies by
Cable Length	30 mm, customizable up to 50 mm	2-span (Depth)	array design/selection)
		Cable Length	22 to 30 mm
Electrode Site Material	Iridium (standard), Platinum- Iridium (standard), Platinum (custom), Gold (custom)	Electrode Site Material	Iridium (standard), Platinum (custom), Gold
Electode Array Thickness	50 µm		(custom)
THICKIESS		Electrode Array Thickness	50 µm

Matrix Packages

