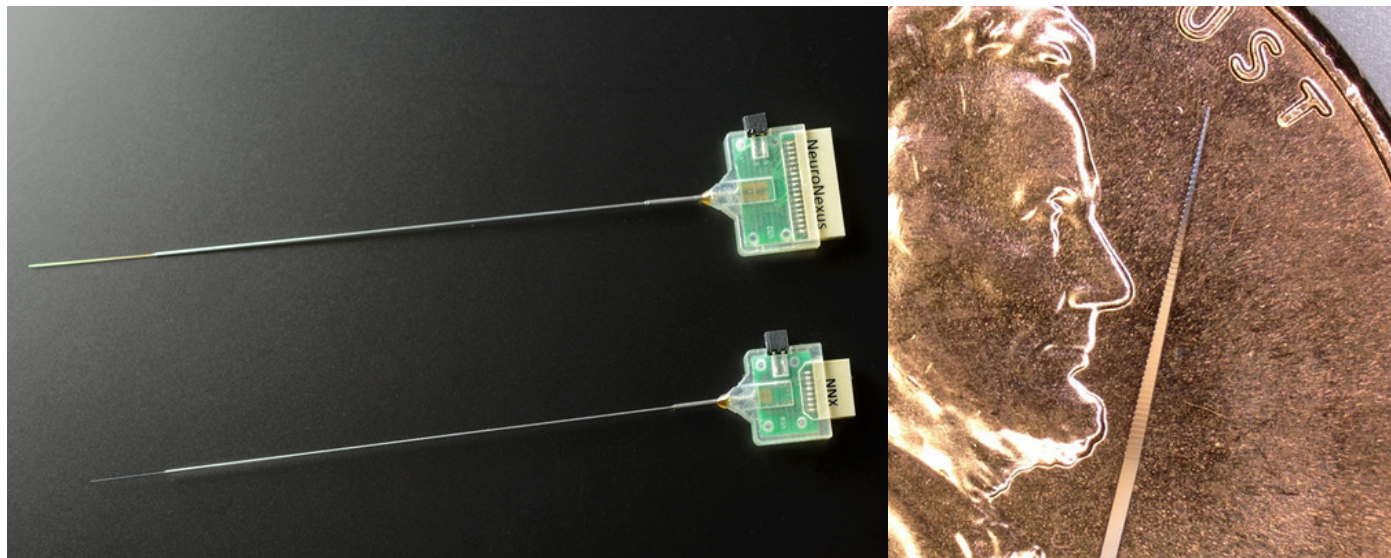




Vector Array™ – High-Density Precision for Deep Brain Research

The **Vector Array™** delivers unmatched performance for deep brain recording and stimulation. Built with NeuroNexus' proven technology, Vector Arrays are optimized for high-density data collection in hard-to-reach structures – **now stronger, higher-capacity, and more versatile than ever.**

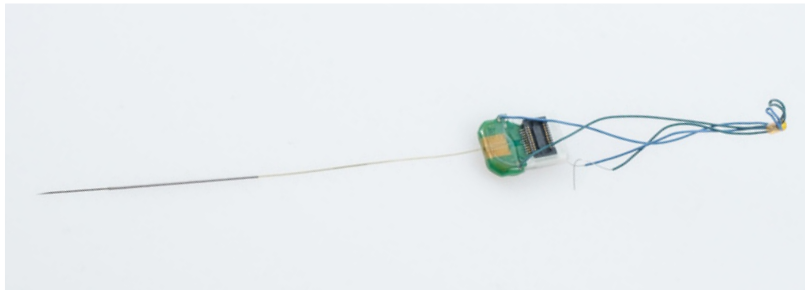
What's New

- **Reinforced Design** – Now available with added structural reinforcement to provide extra protection against breakage and improved longevity.
- **Fusion-Style Double-Sided Recording** – Twice the active sites in nearly the same footprint, enhancing spatial coverage and data richness with every insertion.
- **Expanded Channel Count** – Record and/or stimulate from up to 128 channels in acute or chronic experiments while maintaining the same precise electrode geometry and contact density trusted across NeuroNexus arrays.

Why choose Vector™

- **Reach Deep Targets** – Available in implantable lengths up to 110 mm, enabling access to deep brain structures in large animal models.
- **Durable and Reusable** – With proper care, a single Vector Array can be used in 50+ successful experiments, delivering exceptional reliability and performance across multiple uses.
- **Optogenetics Compatible** – Mount an optical fiber for seamless optogenetic stimulation integration.
- **Flexible Configurations** – Choose from laminar or polytrode layouts, or design your own custom Vector Array to meet specific research needs.
- **Robust Hybrid Assembly** – Combines a high-resolution silicon electrode array with a rigid stainless-steel support body, balancing strength, precision, and minimal tissue disruption.

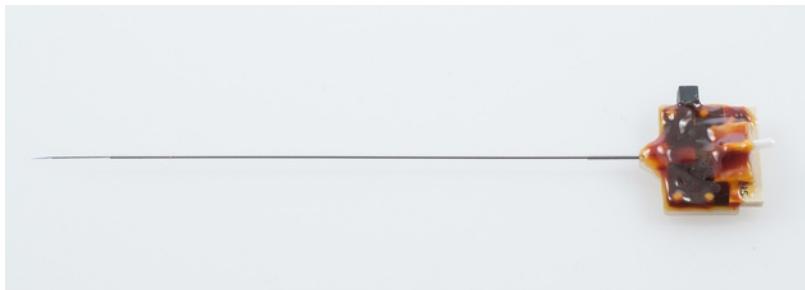
Chronic Vector Array™



The **Chronic Vector Array™** is a design enabling access to deep brain structures (> 10 mm deep) for chronic applications.

Chronic Vector Arrays™ can be configured with implantable lengths from 30 - 55 mm. Please factor in implantation hardware (clamps, etc.) when configuring your probe.

Opto Vector Array™



FLAT FIBER OPTIONS (ID / OD / NA)

50 μ m/62.5 μ m, 0.22 NA (etched)	400 μ m/425 μ m, 0.39 NA
105 μ m/125 μ m, 0.22 NA (standard)	50 μ m/62.5 μ m, 0.66 NA
200 μ m/220 μ m, 0.22 NA	105 μ m/125 μ m, 0.66 NA
200 μ m/225 μ m, 0.39 NA	200 μ m/220 μ m, 0.66 NA

Chambers and Drives



Various chambers and drives are available for the Vector Array, including the **NaN** and **Narishige** drives.

Left: pDrive Chronic Primate Microdrive

Specifications

Channel count	16, 32, 64, 128
Total Length	70 mm or 110 mm
Silicon Electrode Length	10 mm
Silicon Electrode Width	20 μ m min (Edge design), 75 μ m min (Poly2 design), 175 μ m max
Silicon Electrode Thickness	50 μ m (standard), 100 μ m (Fusion), 150/200 μ m (reinforced)
Site Area	177 μ m ²
Site Coverage	375 μ m - 6300 μ m, depending on design
Electrode Site Material	Iridium (SIROF available)
Support Body Diameter	315 μ m OD (16-channels), 400 μ m OD (32-and 64-channels), 635 μ m (128 channels)
Available Packages	V16, V32, V64, VC16, VC32, VC64, VZ16, VZ32, VZC16, VZC32, OV16, OV32, FV128