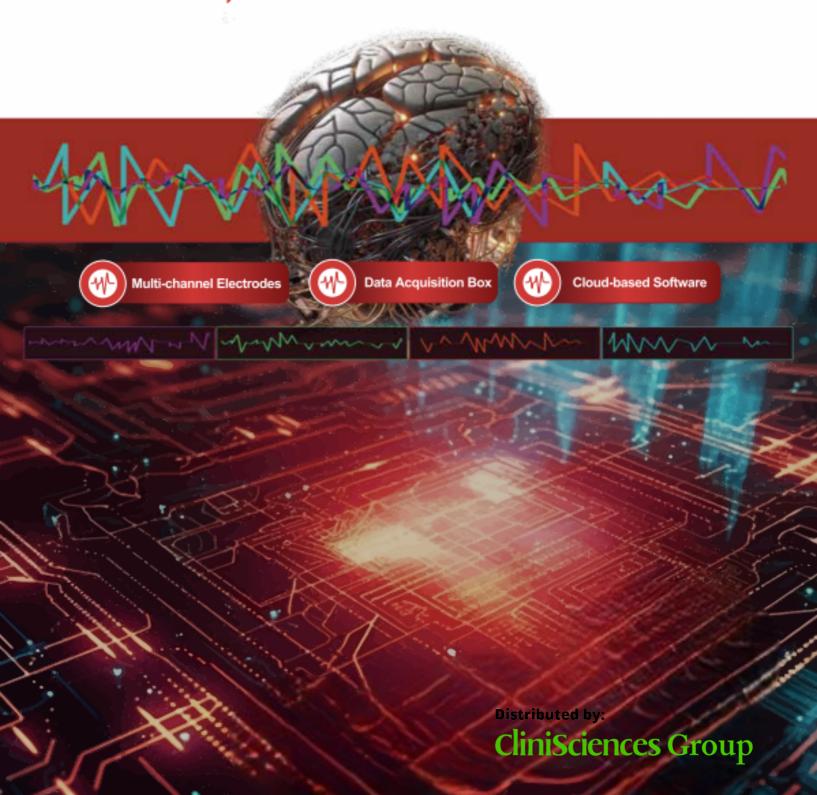






# Solutions for *in vivo* electrophysiology recordings —— Aneuro, Advance Neuroscience Research ——



BIOSYSTEMS



## Catalogue

P 01 Total solution for *in vivo* Electrophysiology products

- Multi-channel Electrodes
- Data Acquisition Box
- Cloud-based Software
- Getting Started Beginner Products & Kits

"One-stop service" for *in vivo* electrophysiology platform

Distributed by:

CliniSciences Group

## Total solution for *in vivo* Electrophysiology products



ACCO

Electrophysiological research is an important segment of the neuroscience field, and *in vivo* electrophysiological experiments are a leading tool for neural circuit research. Using *in vivo* electrophysiology experiments, field potentials of brain regions and single unit signal of individual neurons can be recorded, which can help us to analyze the functions of different neural circuits and their connections with diseases.

ACROBiosystems, through Acro Certify, has partnered with Diagnostic Biochips (DBC) to provide you with solutions for in vivo electrophysiology recordings, including high-quality multi-channel electrodes, a data acquisition box, as well as cloud-based data analytics to facilitate high-quality, efficient analysis of neural circuit structure and function, electrophysiological marker discovery, and drug screening.

#### **Product Features**

High-density, microfabricated neural probes for both deep structure and surface recordings. Designed by the DBC team for decades to bring you cutting-edge micro-fabricated electrodes.

Multi-channel Electrodes: Up to 128 channels available for chronic, long-term recording.

Lightweight, Flexible Design: 64/128 channel electrodes require no headstage to reduce animal headload.

**Multi / Deep Recordings:** Deep-array electrodes to complete recordings across 128 channels, 90mm in depth.

Cost Effective: Easy to operate, better performance, low costs to maximize your product's worth.

**Starters Kit:** Build the RIGHT platform for you while minimizing your cost. Explore our **Getting Started** section to find what's right for you.

## Multi-channel Electrodes

#### **Silicon Probes**



16, 32, 64, 128 channels are available, serving different recording situations of a variety of model design, high-channel without headstage, which allows for efficient chronic recording.

### Janus Double-side Silicon Probes

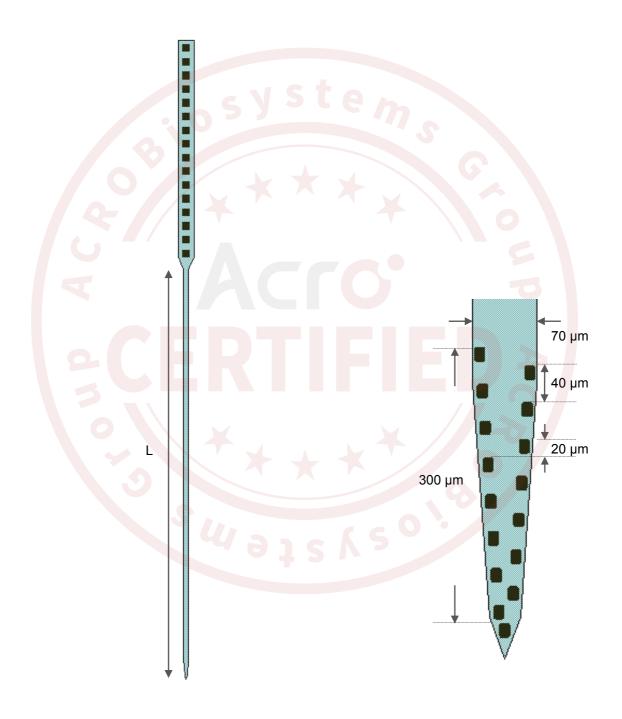


64 channels on janus double-sided, 128 channels total. Stereoscopic recording of multiple neural signals to obtain richer experimental data.

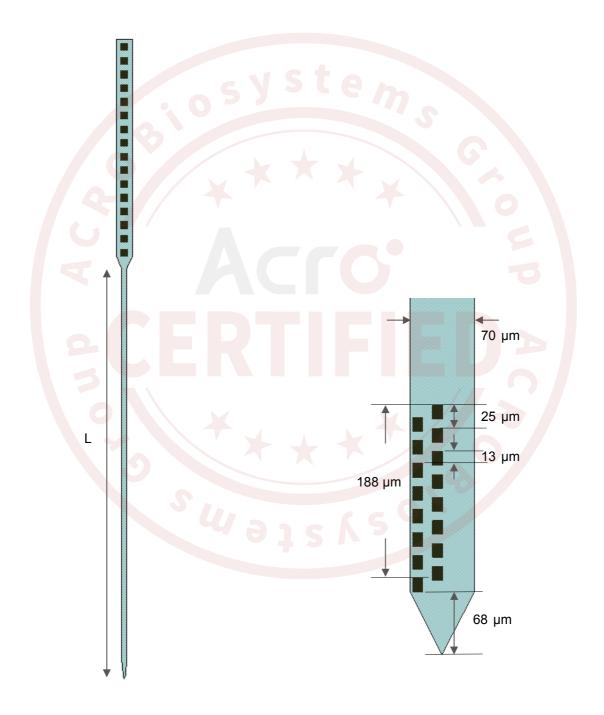
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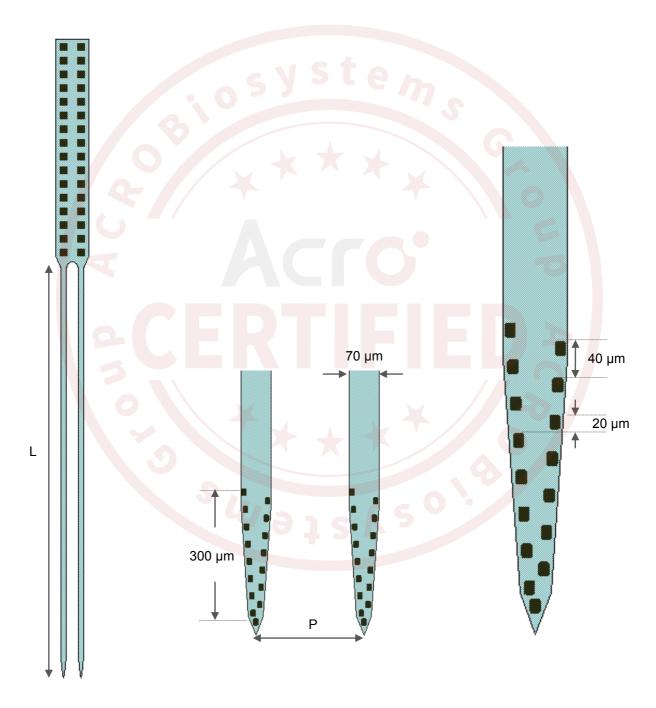
SPECIFICATION	DIMENSIONS
Shank length (L)	6 mm, 9 mm
Recording site	11 μm × 15 μm



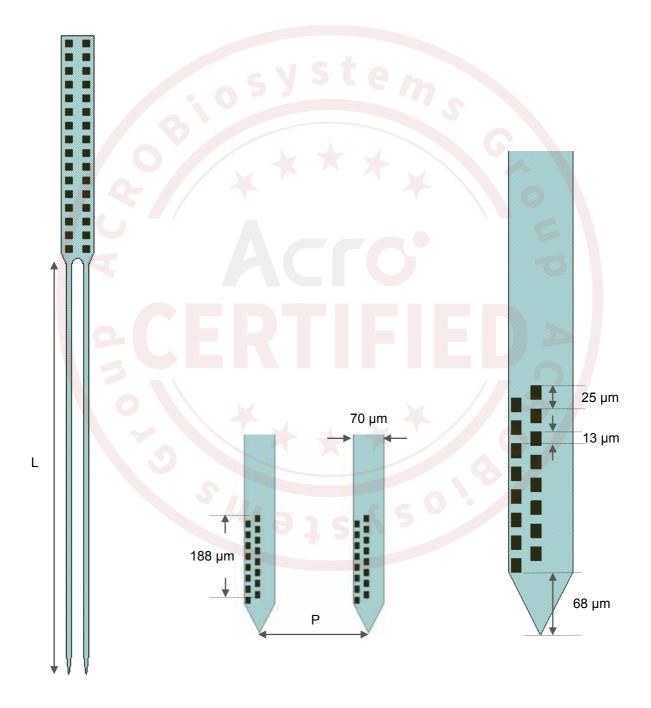
SPECIFICATION	DIMENSIONS
Shank length (L)	6 mm, 9 mm
Recording site	11 μm × 15 μm



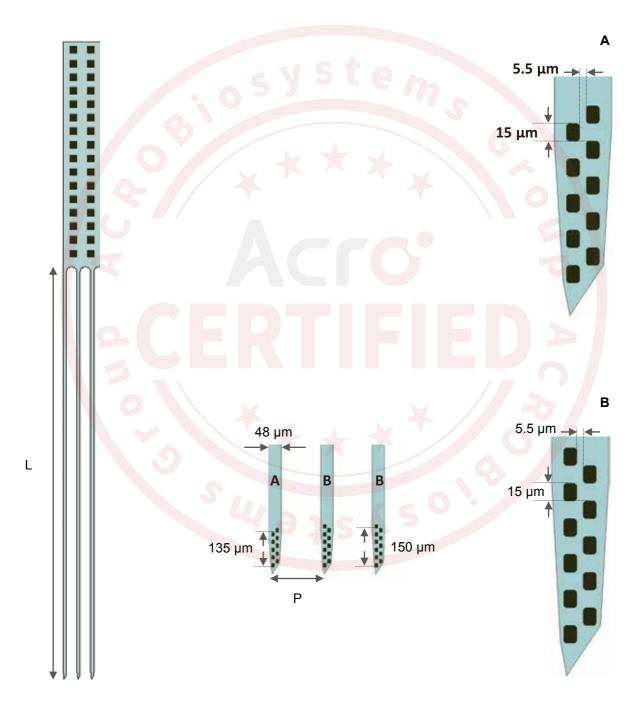
SPECIFICATION	DIMENSIONS
Shank length (L)	6 mm, 9 mm
Shank pitch (P)	250 μm
Recording site	11 μm × 15 μm

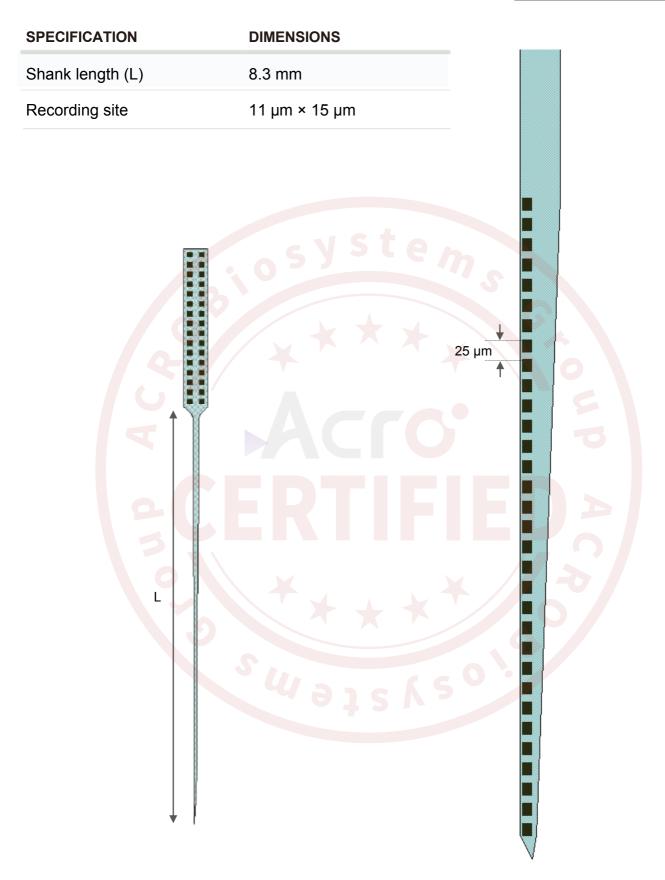


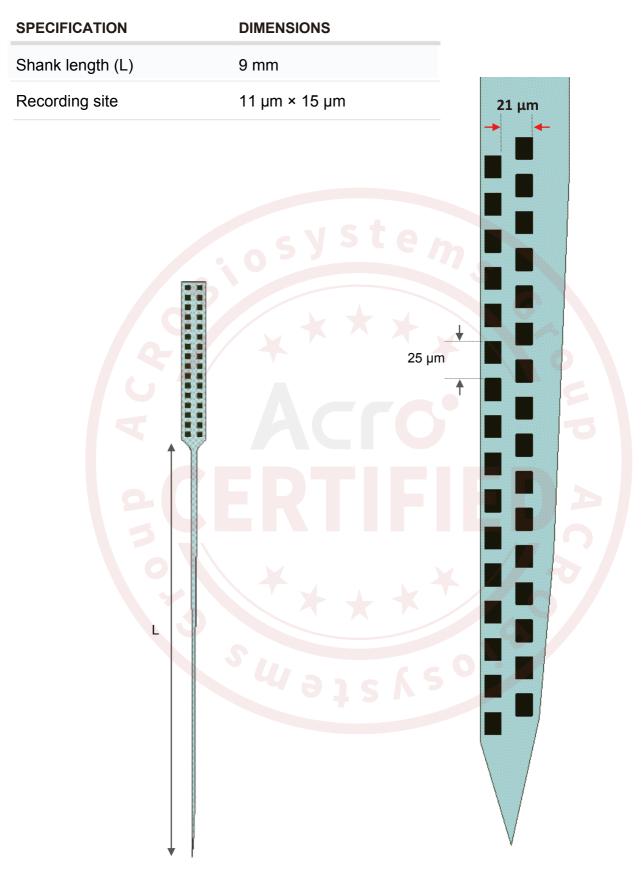
SPECIFICATION	DIMENSIONS
Shank length (L)	6 mm, 9 mm
Shank pitch (P)	250 μm
Recording site	11 μm × 15 μm

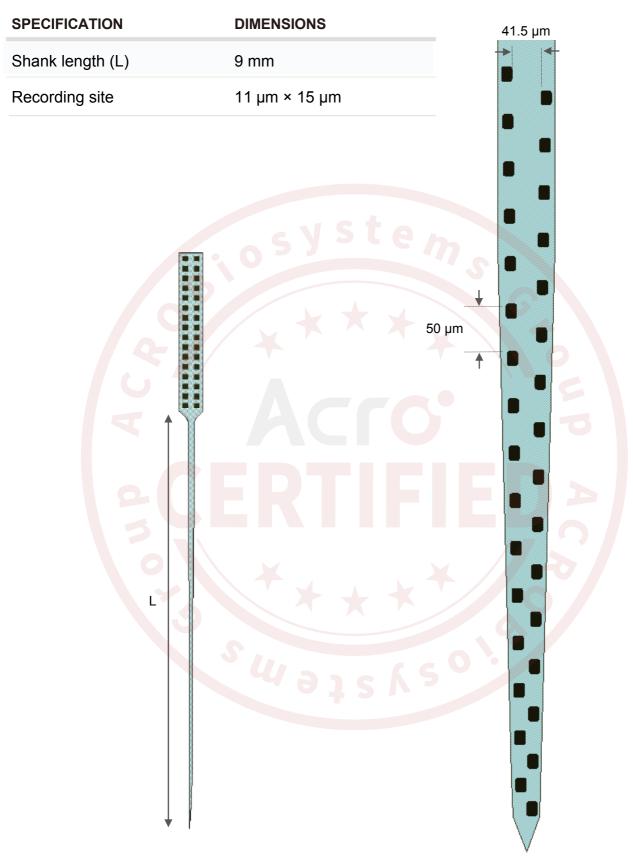


SPECIFICATION	DIMENSIONS
Shank length (L)	6 mm
Shank pitch (P)	200 μm
Recording site	11 μm × 15 μm

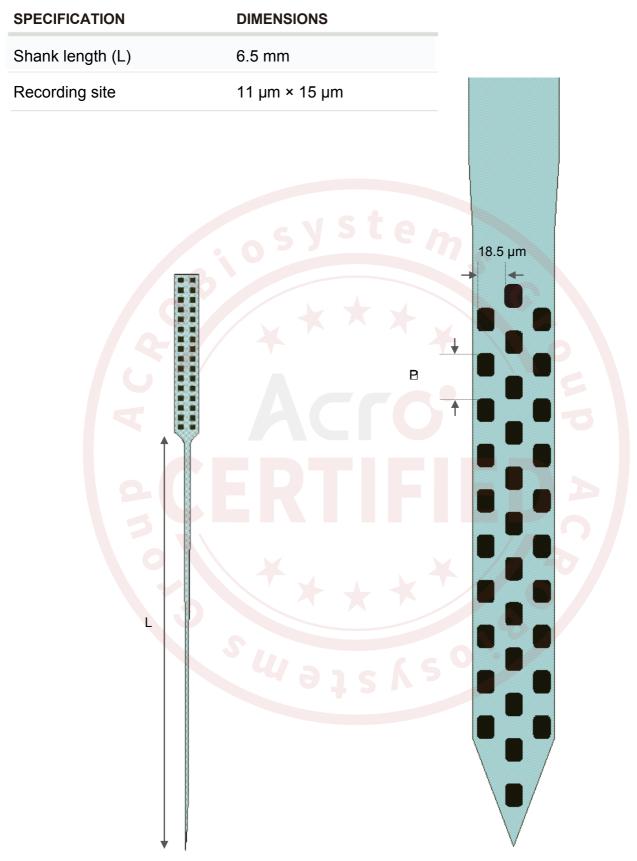






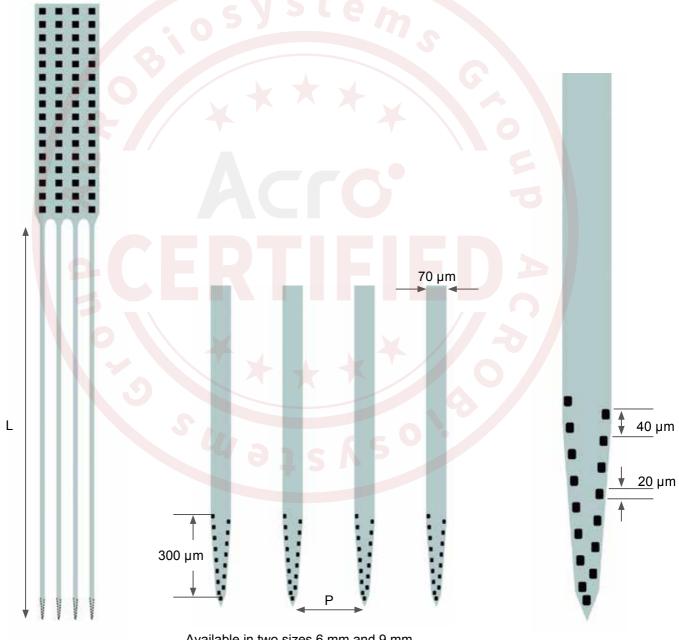






SPECIFICATION	DIMENSIONS
Shank length (L)	6 mm, 9 mm
Shank pitch (P)	250 μm
Shank thickness	15 μm (30 μm)
Recording site	11 μm × 15 μm

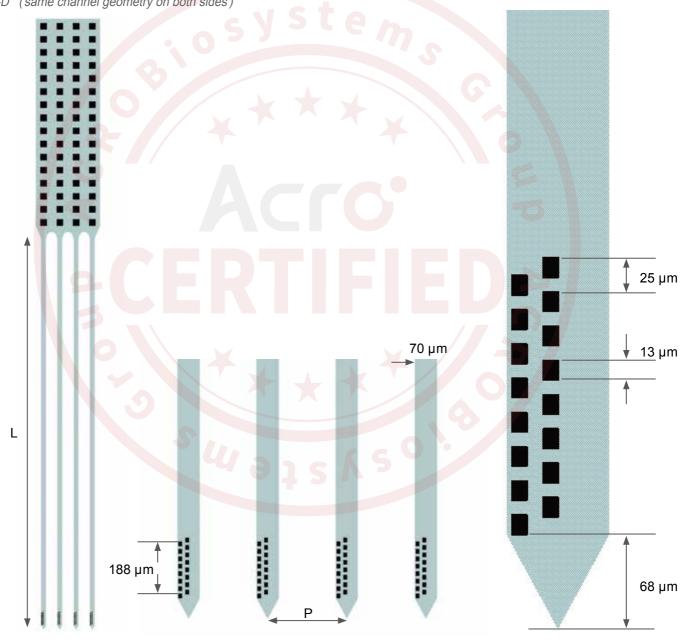
\*Also available as a 128 channel Janus Double-sided Probe variant P64-1-D (same channel geometry on both sides)



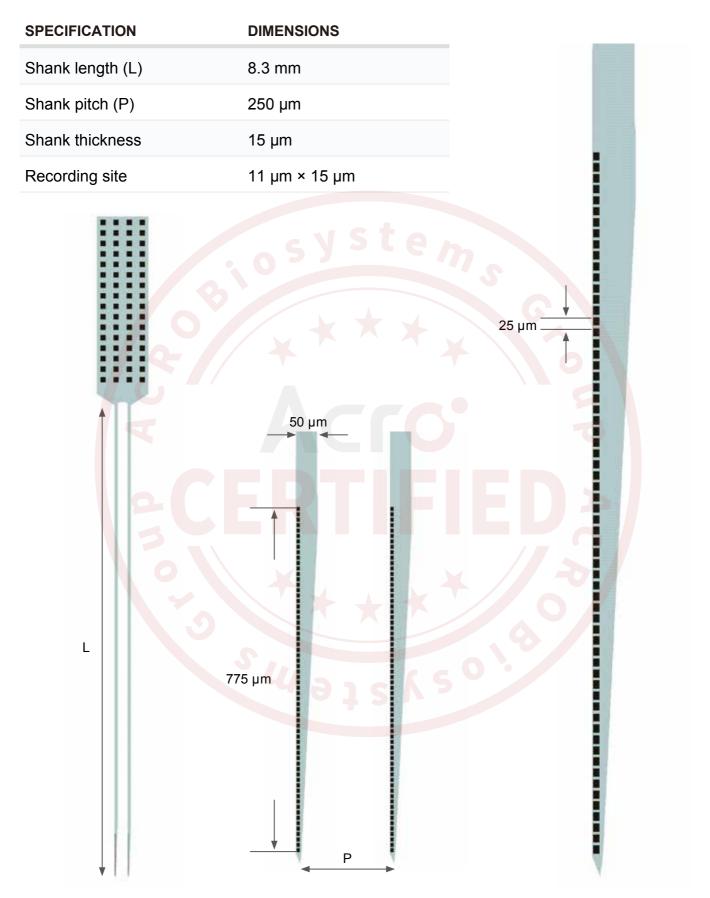
Available in two sizes 6 mm and 9 mm

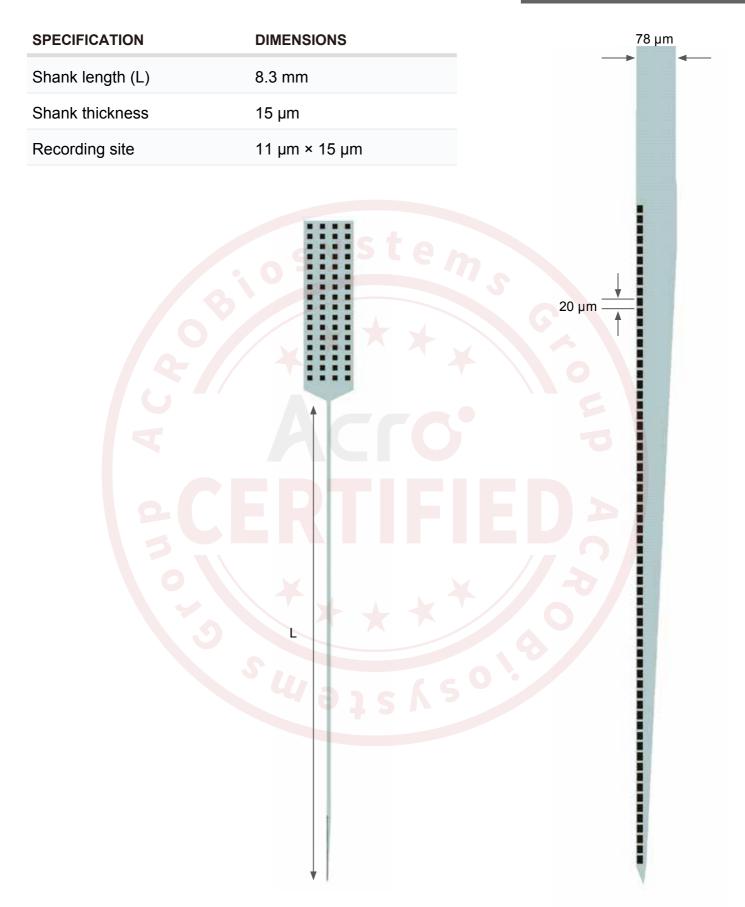
SPECIFICATION	DIMENSIONS
Shank length (L)	6 mm, 9 mm
Shank pitch (P)	250 μm
Shank thickness	15 μm (30 μm)
Recording site	11 μm × 15 μm

\*Also available as a 128 channel Janus Double-sided Probe variant P64-2-D (same channel geometry on both sides)

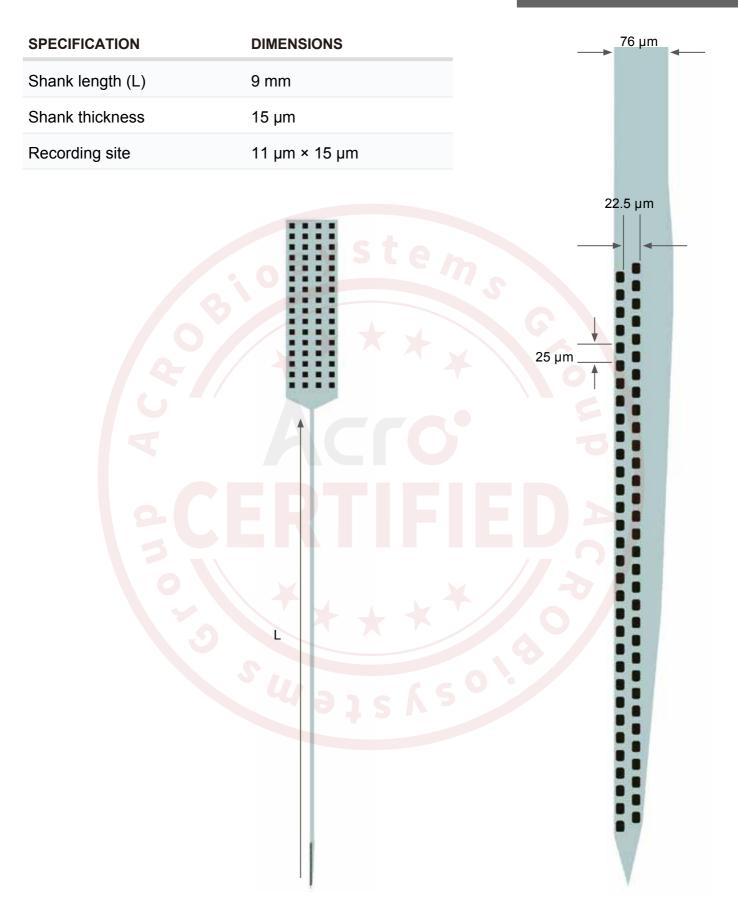


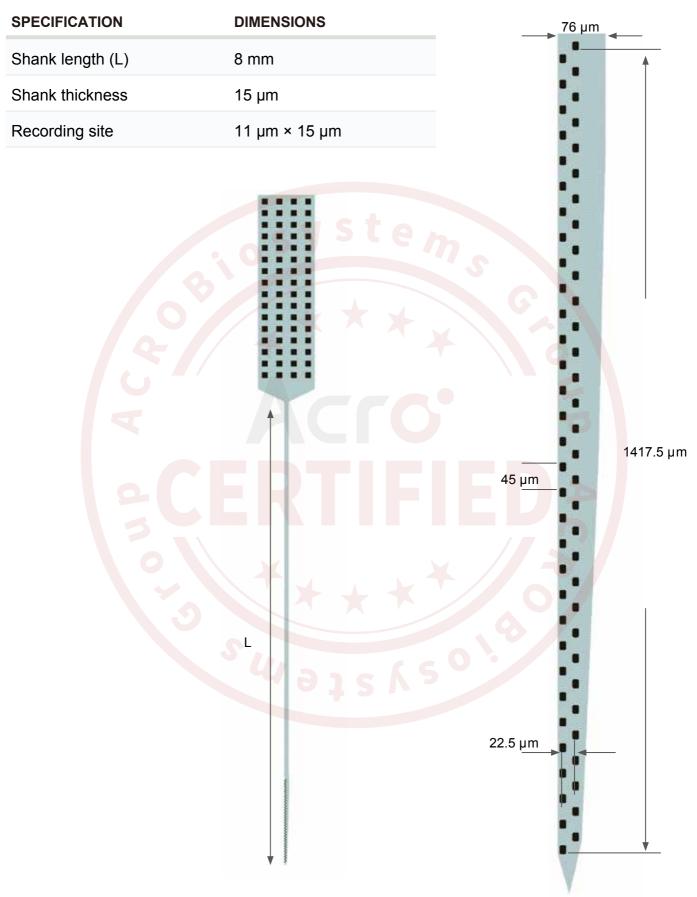
Available in two sizes 6 mm and 9 mm





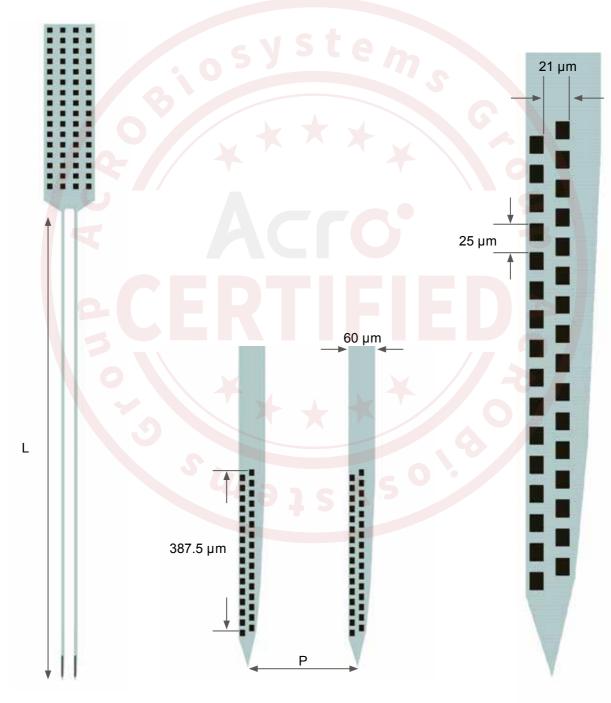
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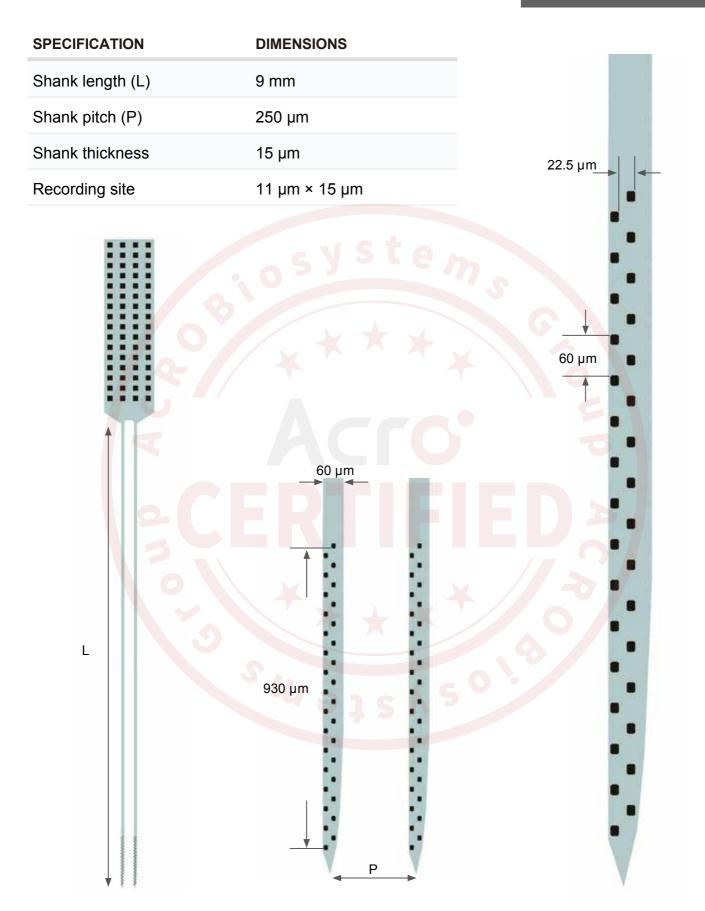


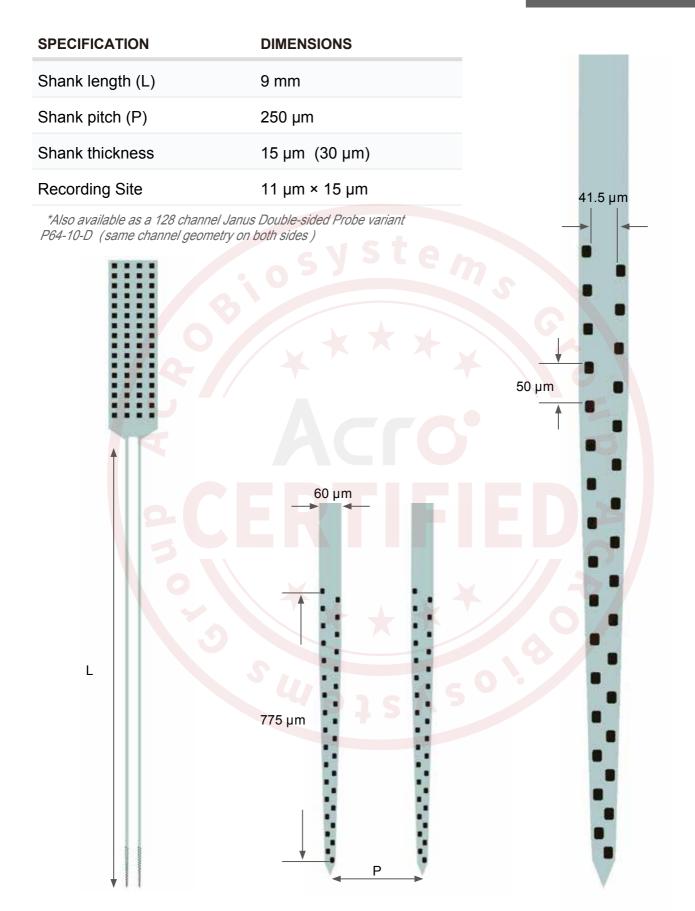


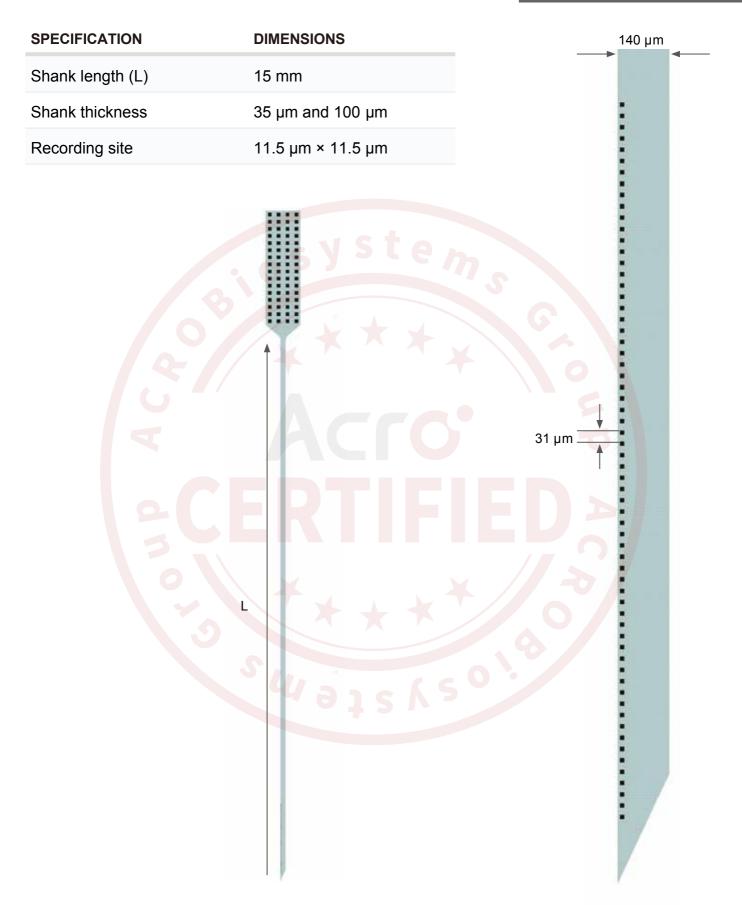
SPECIFICATION	DIMENSIONS			
Shank length (L)	6 mm			
Shank pitch (P)	200 μm			
Shank thickness	15 μm (30 μm)			
Recording site	11 μm × 15 μm			
*Also available as a 128 channel Janus P64-7-D (same channel geometry on b	ooth sides)	Δ 15 μm	5.5 µm h	-
L	S W A A B B	ВВВ	в а	
was and a second a	135 µm 150 µm	P		

SPECIFICATION	DIMENSIONS
Shank length (L)	9 mm
Shank pitch (P)	250 μm
Shank thickness	15 μm
Recording site	11 μm × 15 μm

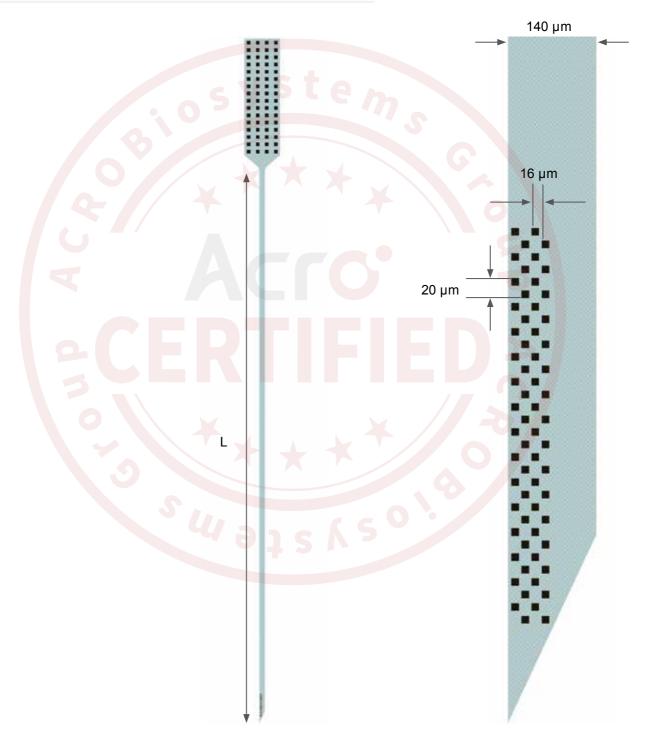








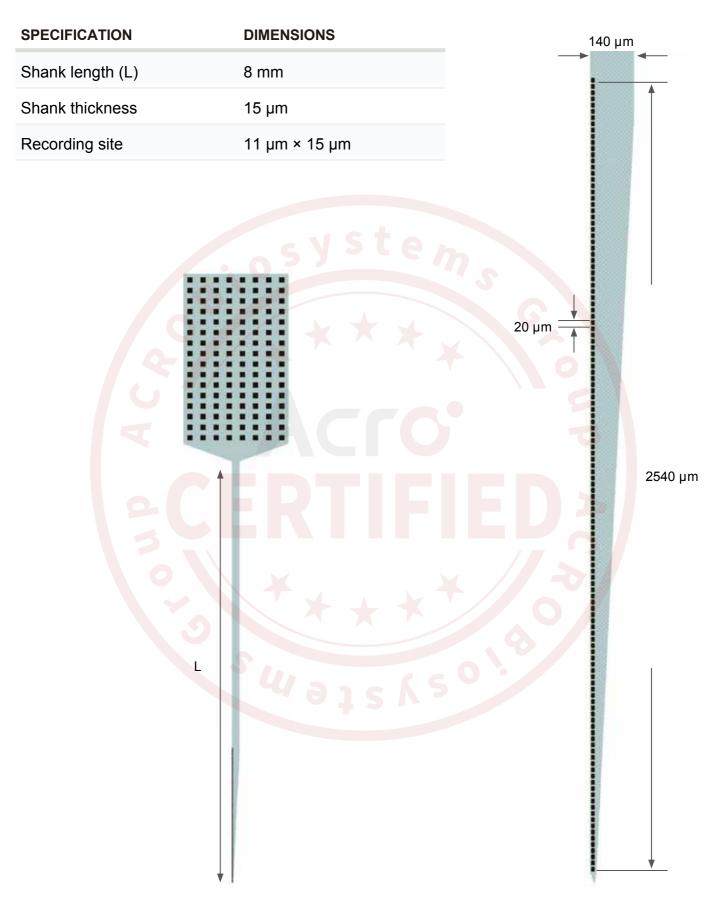
SPECIFICATION	DIMENSIONS
Shank length (L)	15 mm
Shank thickness	35 μm and 100 μm
Recording site	11.5 μm × 11.5 μm

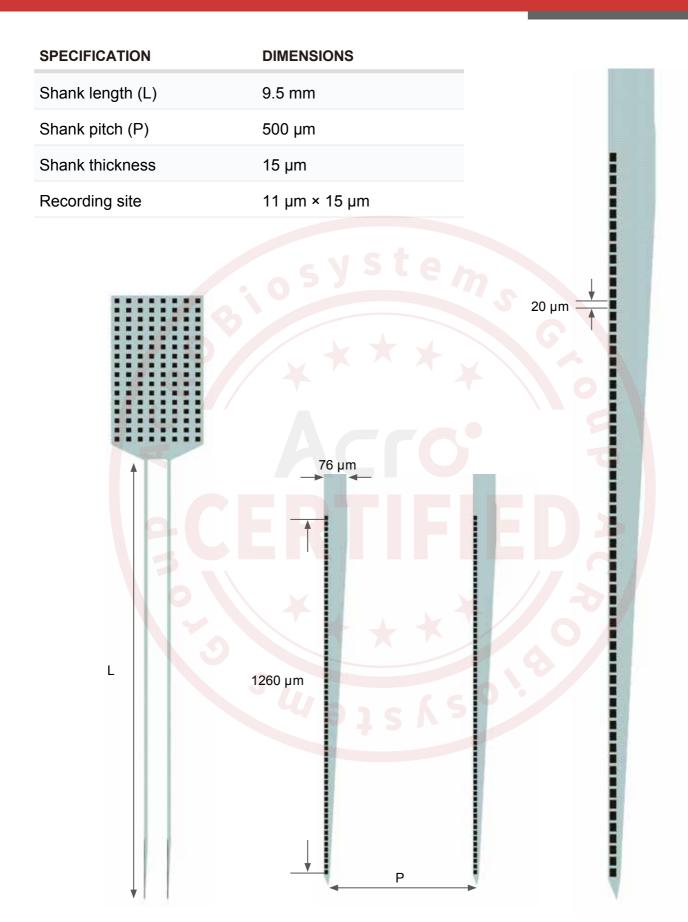


SPECIFICATION	DIMENSIONS
Shank length (L)	6.5 mm
Shank thickness	15 µm
Recording site	11 μm × 15 μm

\*Also available as a 128 channel Janus Double-sided Probe variant P64-13-D (same channel geometry on both sides)

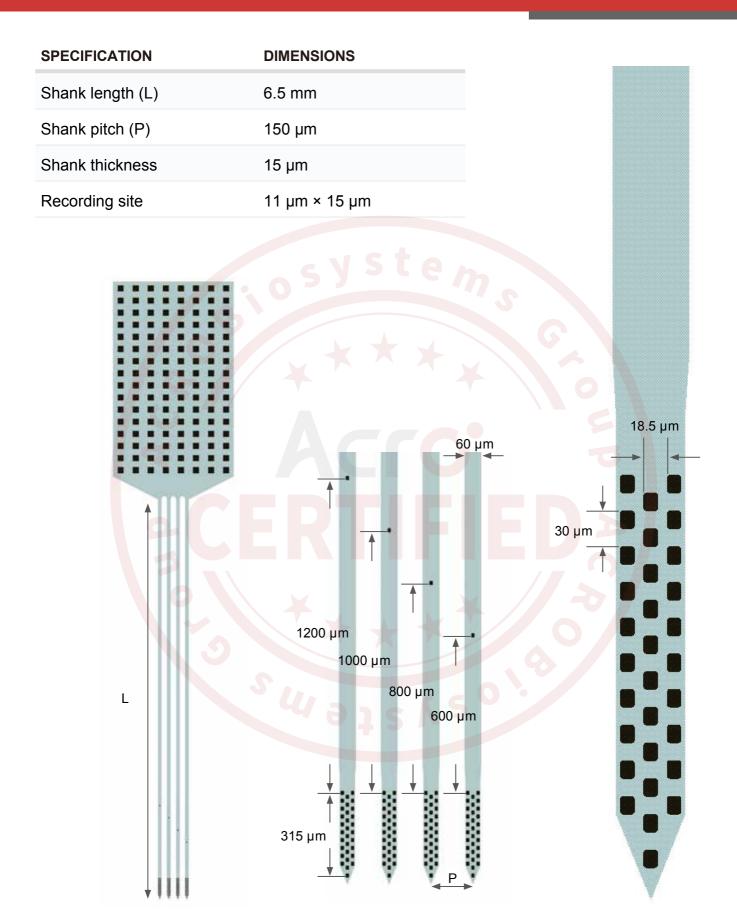






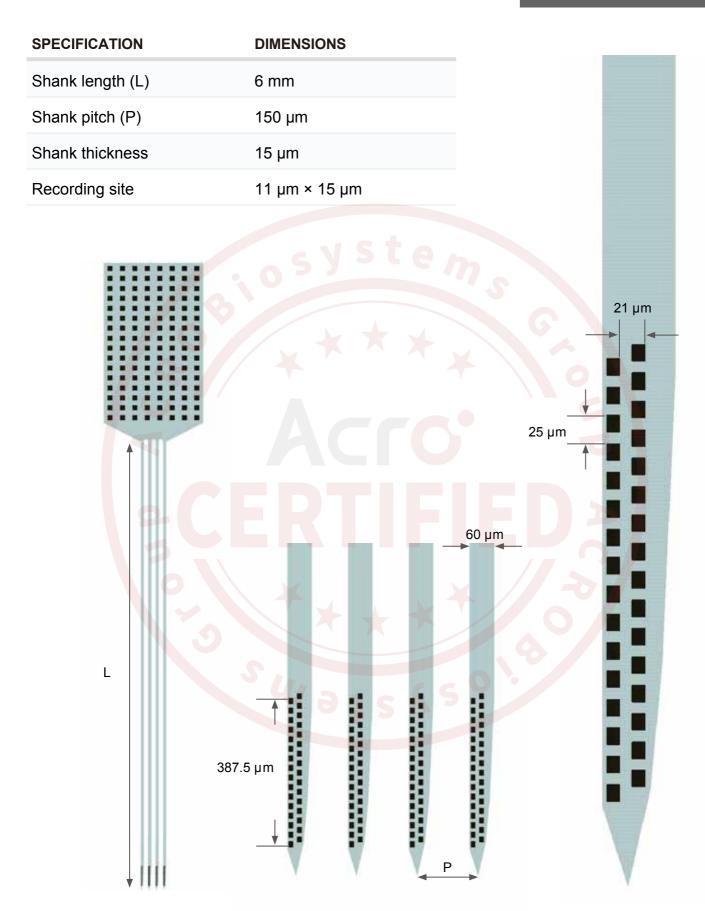
SPECIFICATION	DIMENSIONS	
Shank length (L)	9 mm	
Shank pitch (P)	500 μm	
Shank thickness	15 μm	
Recording site	11 μm × 15 μm	_
	76 µm 76 µm 787.5 µm	22.5 μm ———————————————————————————————————

SPECIFICATION	DIMENSIONS	
Shank length (L)	8.5 mm	:
Shank pitch (P)	500 µm	
Shank thickness	15 μm	
Recording site	11 μm × 15 μm	
	3150 μm  P	50 μm

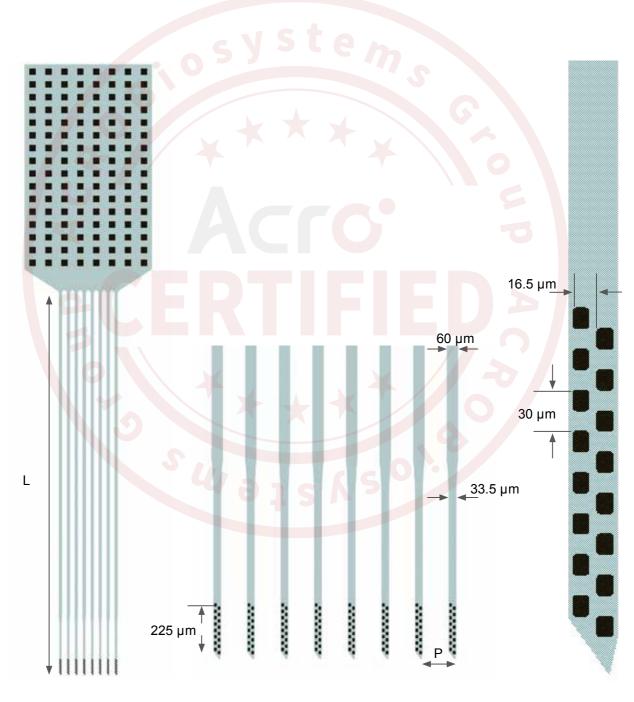


SPECIFICATION	DIMENSIONS	
Shank length (L)	6 mm, 12 mm	
Shank pitch (P)	150 µm	
Shank thickness	15 μm	
Recording site	11 μm × 15 μm	
	ACC 1 P 775 μm	25 μm 60 μm

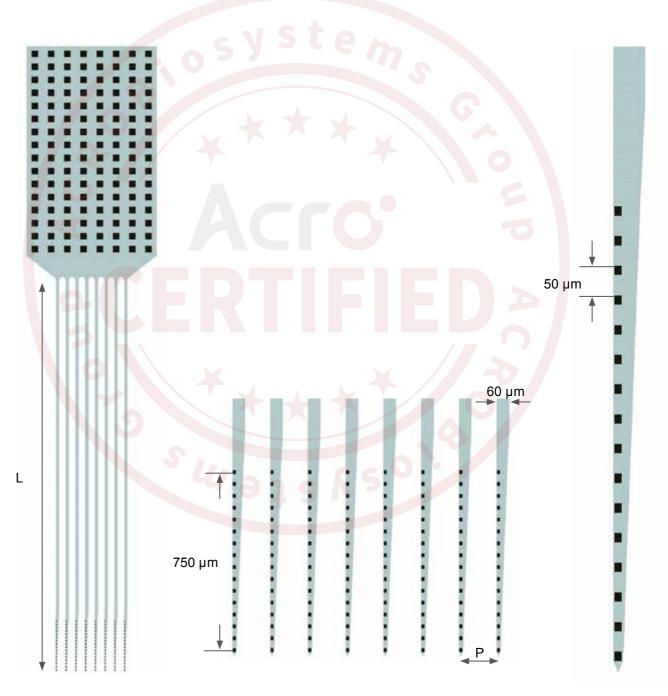
Available in two sizes 6 mm and 12 mm

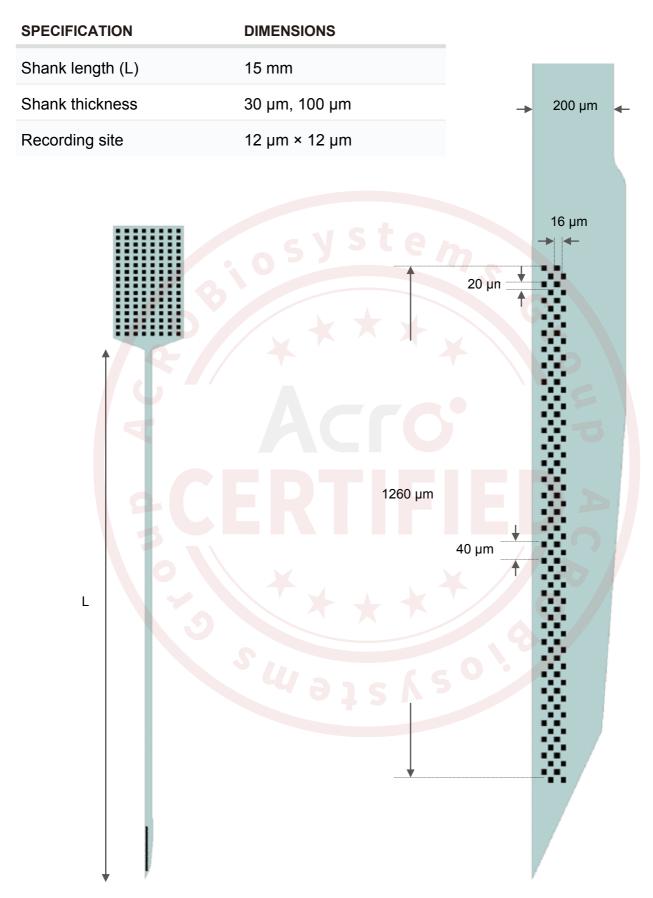


SPECIFICATION	DIMENSIONS
Shank length (L)	6 mm
Shank pitch (P)	125 μm, 150 μm
Shank thickness	15 μm
Recording site	11 μm × 15 μm



SPECIFICATION	DIMENSIONS
Shank length (L)	6 mm
Shank pitch (P)	150 µm
Shank thickness	15 μm
Recording site	11 μm × 15 μm





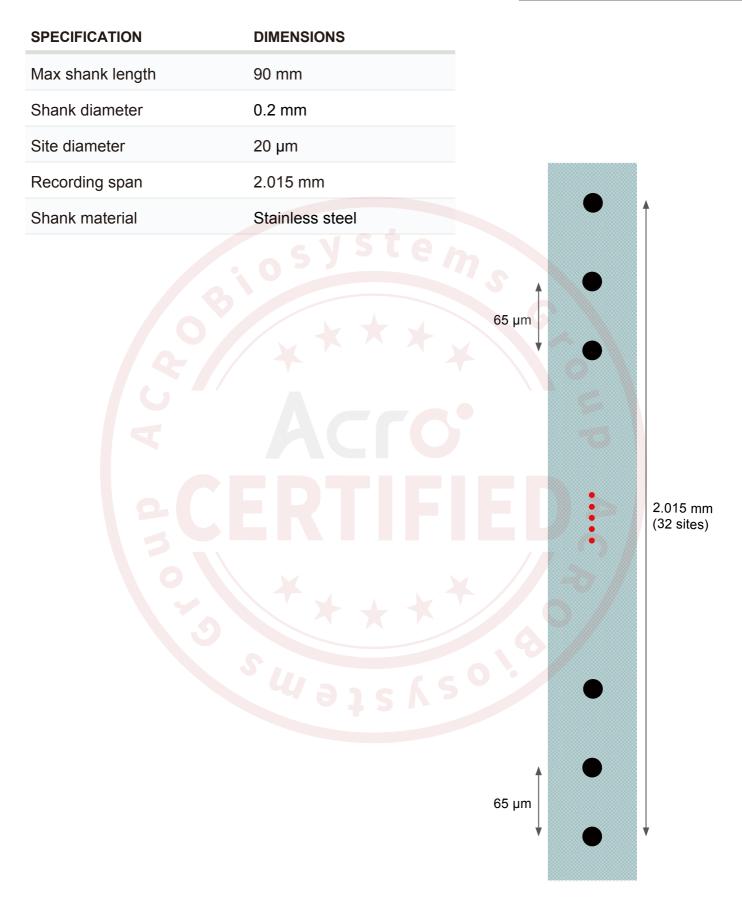
### Multi-channel Electrodes

### Deep Array

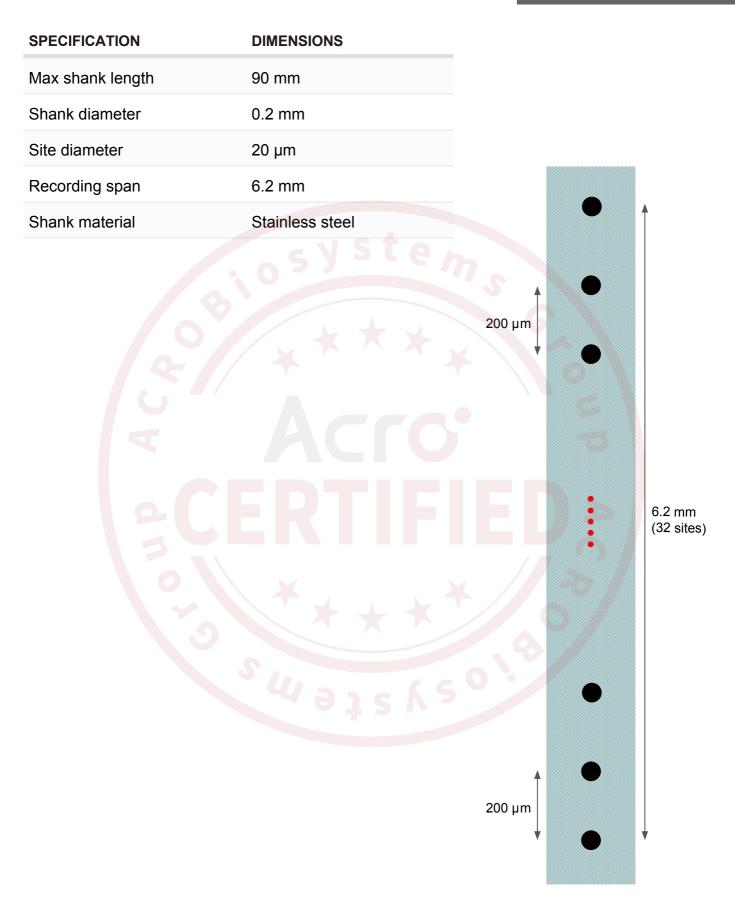


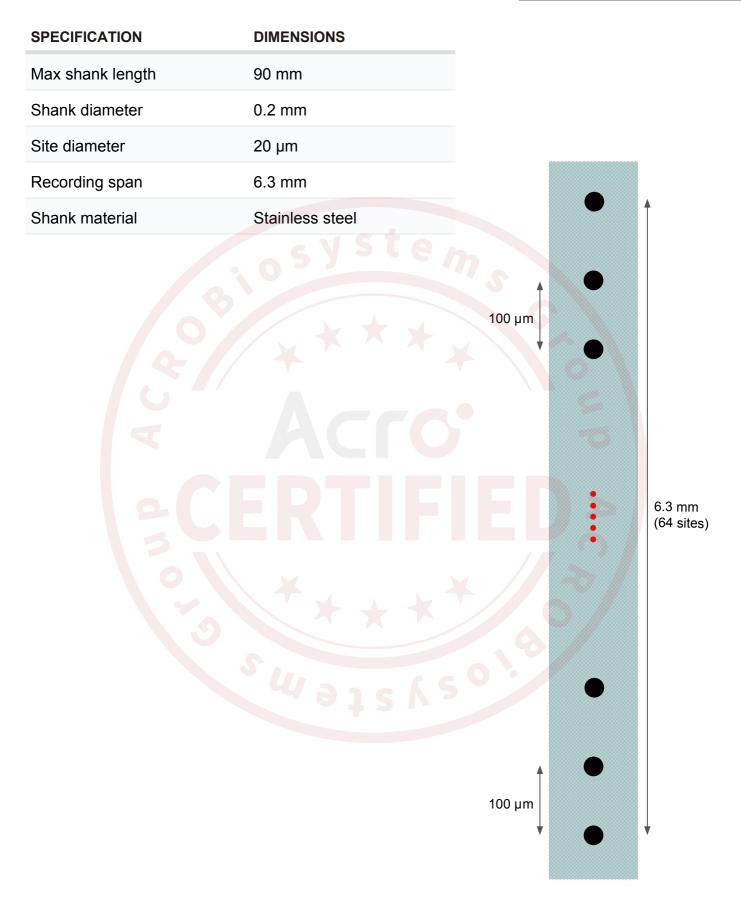
For single unit recording in deep brain regions and can be applied to large animals such as non-human primates. 32, 64, 128 channels are optional, recording depth up to 90mm. 64 and 128 channels requires no headstage.

Distributed by:

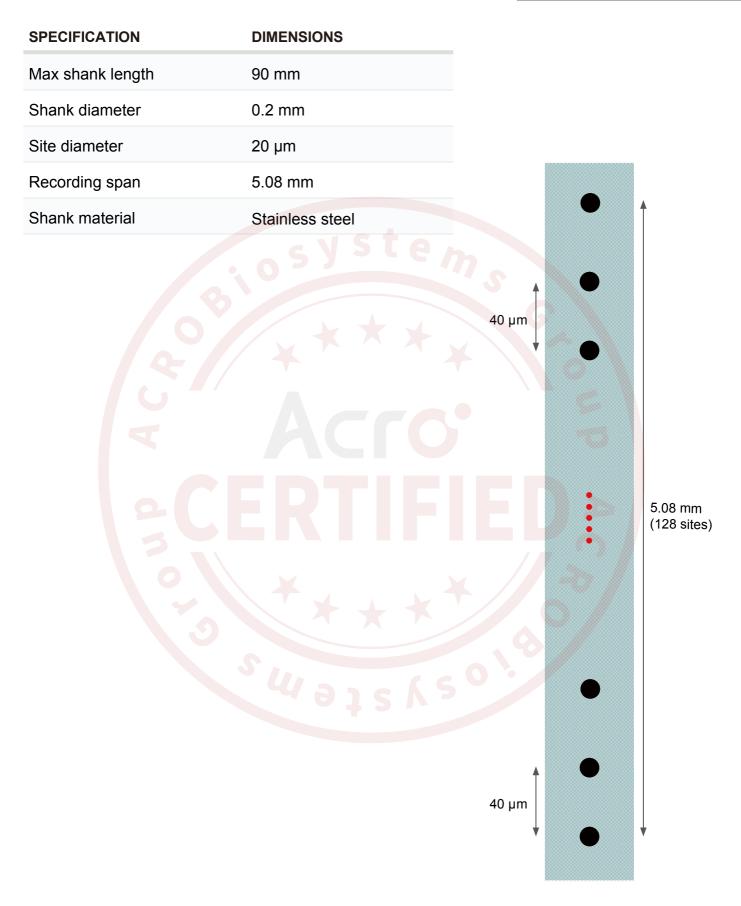








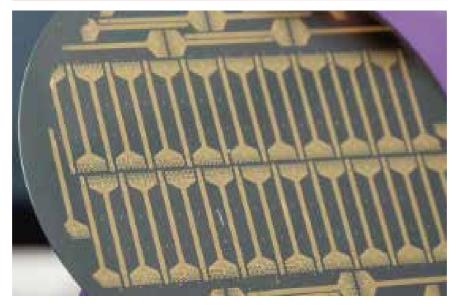
SPECIFICATION	DIMENSIONS
Max shank length	90 mm
Shank diameter	0.2 mm
Site diameter	20 μm
Recording span	1.575 mm
Shank material	Stainless steel  Syste  ACC  IRIF  ***  **  **  **  **  **  **  **  **



SPECIFICATION	DIMENSIONS
Max shank length	90 mm
Shank diameter	0.2 mm
Site diameter	20 µm
Recording span	3.175 mm
Shank material	Stainless steel  Line of the state of the st

### Multi-channel Electrodes

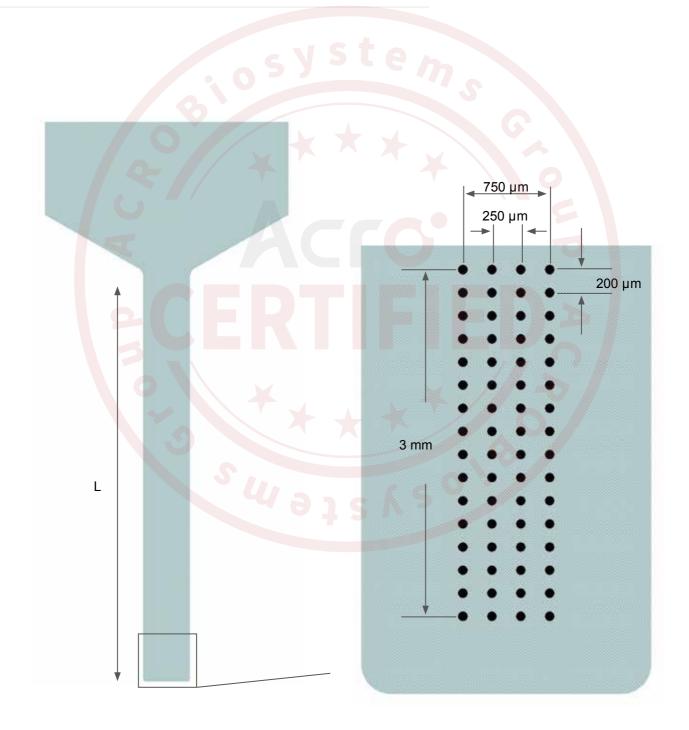
### Micro ECoG



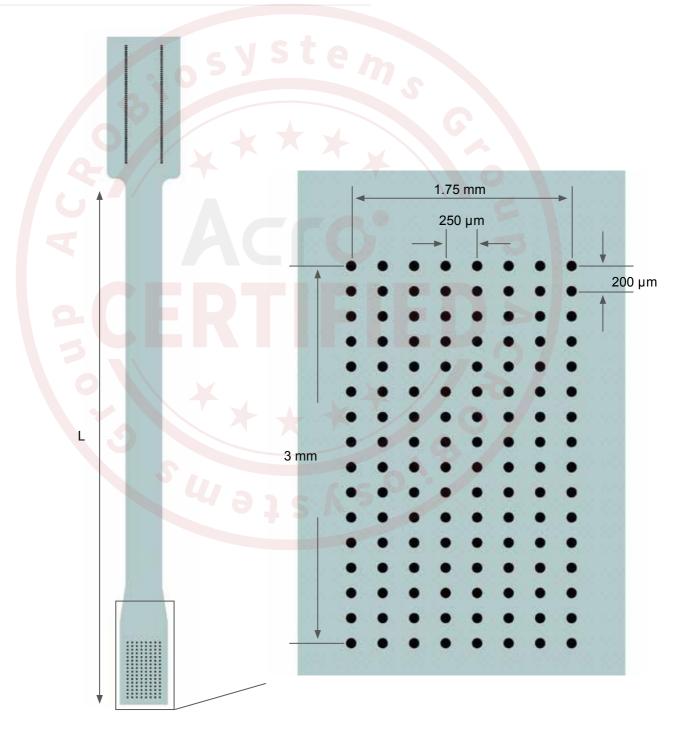
Cerebral cortex signal recording for different animal models including rodents, sheep and non-human primates. 64 and 128 channels products are optional, a variety of models designed without headstage.

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SPECIFICATION	DIMENSIONS
Cable length (L)	20 mm
Cable thickness	4 µm
Recording site	80 µm diameter
Assembly	ASSY-156, Int-64



SPECIFICATION	DIMENSIONS
Cable length (L)	20 mm
Cable thickness	4 μm
Recording site	80 μm diameter
Assembly	Int-128

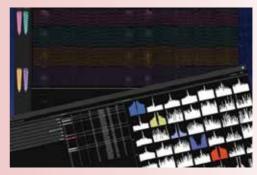


### Data Acquisition Box

# Plagnostic CERTIFIED Diagnostic

The 512 channels signal acquisition box, which is developed on the basis of the open-ephys system, you can collect up to 512 channels of data directly to your computer. With favorable price, we wish you to say goodbye to the period of expensive platform building, which is a more cost-effective choice for you.

### Data Analysis Software



Multichannel electrophysiology is big data science, and multichannel electrophysiology experiments generate huge volumes of experimental data. Al and cloud-based data analysis software is a more convenient data management system and more accurate data processing, which can replace the local storage of big data and save the manual and time costs of data processing.

### Getting Started – Beginner Products & Kits

*In vivo* electrophysiology recording is not easy to perform. At a certain level, it requires a significant degree of understanding and experience to perform correctly, both of which can influence the result and follow-up experiments. The establishment of the platform, the training and practice of the experimental personnel have a significant impact on the effectiveness of the follow-up experiments.

Considering the practice of animal surgery and electrode implantation operations, which require the use of a large number of electrode products. We offer products for introductory/training: B-grade and C-grade products at a lower unit price, saving you the cost of training materials.

★ What are Training Products - B vs C grade products?

### **B-grade Products**



### **C-grade Products**

- Electrode samples with recording function enabled.
- Suitable for electrode implants and practice data recording.
- Electrode samples without the recording function enabled.
- Suitable for animal surgery and practice electrode implantation.

### ★ Getting Started with In vivo Electrophysiology

### **Acute Recording Starter Kit**



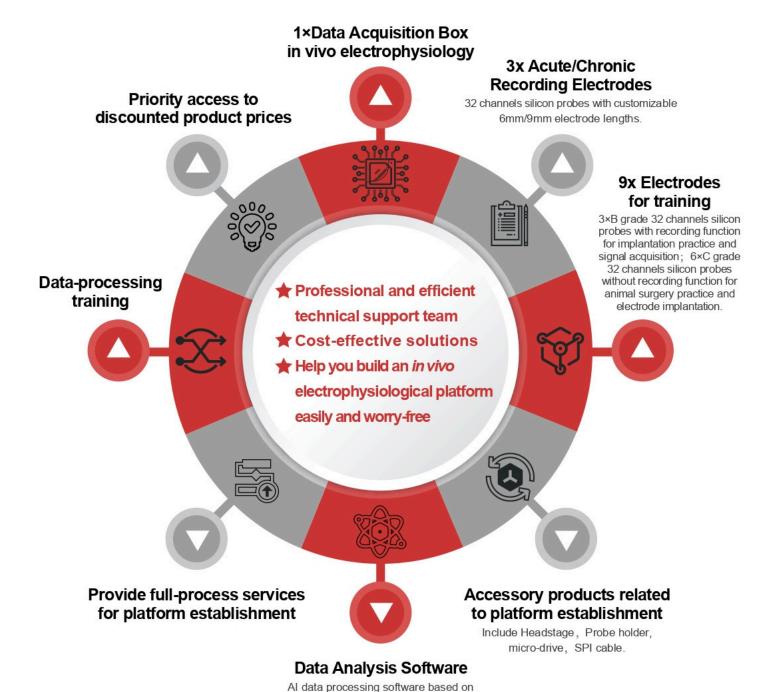
### **Chronic Recording Starter Kit**

- 1x Data Acquisition Box
- 3x Acute Recording Electrodes
- 3x B-grade Electrode Samples
- 6x C-grade Electrode Samples

- 1x Data Acquisition Box
- 3x Chronic Recording Electrodes
- 3x B-grade Electrode Samples
- 6x C-grade Electrode Samples

### **Distributed by:**

## "One-stop service" for in vivo electrophysiology platform



cloud storage, intelligent spike sorting.



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