

Recording and stimulating capabilities for all your applications

CorePlate™1W 38/60

The CorePlate™1W 38/60 microelectrode array features 4,096 recording electrodes arranged in a 3.8 mm x 3.8 mm area, a perfect compromise for both cultures and brain tissues. Compared to previous chipset families, CorePlate™1W 38/60 achieves an improved signal-to-noise ratio by offering a recording mode where a subset electrode area can be accessed for ultra-low noise performance.

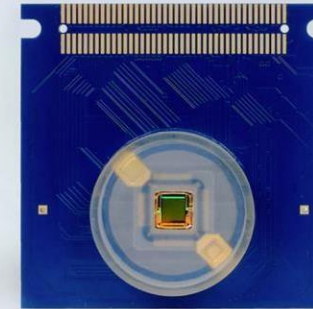
Moreover, every single recording electrode can also be used to release an electrical signal to your sample. The CorePlate™1W 38/60 provides a 3.8 mm x 3.8 mm grid of 4,096 electrodes for spatially accurate electrical stimulation at a cellular resolution.

Each microelectrode is 21 μm x 21 μm , with a 60 μm pitch. The internal diameter of the reservoir is 25 mm, with a height of 7 mm.

The CorePlate™1W 38/60 is based on the [Kihiron \(Gen 3\)](#) chipset family and is compatible with [BioCAM Duplex](#) only.

Pre-coated Accura series

Thanks to the AzIGrip4™ CELL+ surface functionalization technology developed in collaboration with SuSoS AG, Accura microelectrode arrays can be provided in a pre-coated, sterile and ready-to-use version for cell cultures. By removing the need for manual functional coating and sterilization, both preparation time and variability in cell cultures between MEAs are reduced. Furthermore, it provides a homogeneous and reliable adhesion of cells to substrate, thus increasing the success rate of your experiments.

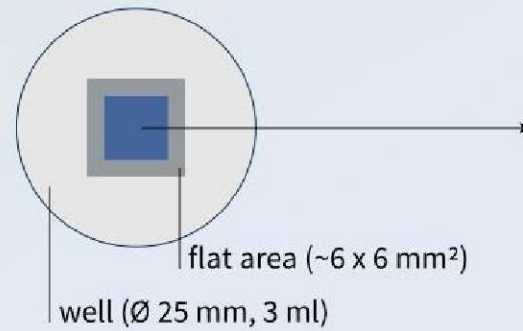


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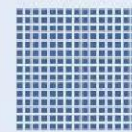


1 well

Well



4096 recording electrodes



60 μm pitch
(3.8 x 3.8 mm²)

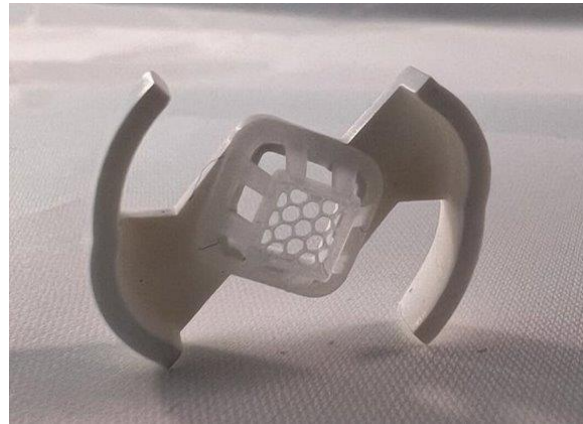
BrainWave Droid, Yearly Subscription Yearly subscription for BrainWave Droid extending the functionality of the Core version. Valid on existing and future software versions for 1 year.



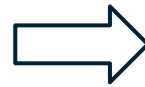
Sample Holder body
plus silicon nets



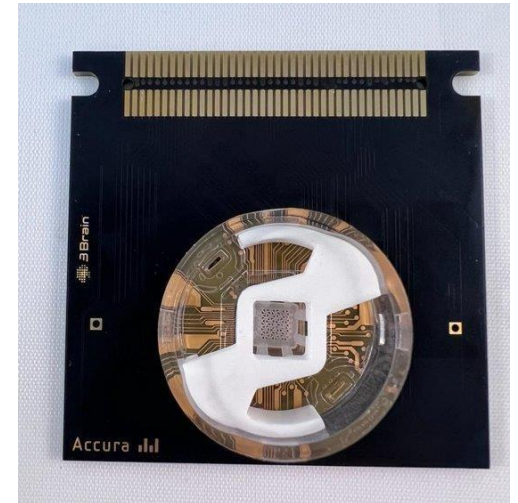
→
Sample
holder tool



Sample holder body plus
mounted silicon nets



Sample holder body plus silicon
nets mounted on a chip
CorePlate 1W 38/60



List of Sample Holder, silicon net

Sample Holder, silicon net 1000/60 (3x pack)

- Silicon net component of the Sample Holder, compatible with CorePlate™ 1W and 6W, exercising a force of $\sim 60\mu\text{N}$ and featuring openings of $\sim 1\text{mm}$ (combine with Sample Holder body). Pack of 3.

Sample Holder, silicon net 300/60 (3x pack)

- Silicon net component of the Sample Holder, compatible with CorePlate™ 1W and 6W, exercising a force of $\sim 60\mu\text{N}$ and featuring openings of $\sim 300\mu\text{m}$ height (combine with Sample Holder body). Pack of 3.

Sample Holder, silicon net -/60 (3x pack)

- Silicon net component of the Sample Holder, compatible with CorePlate™ 1W and 6W, exercising a force of $\sim 60\mu\text{N}$ and without mesh (combine with Sample Holder body). Includes PETE transparent membrane filters. Pack of 3.

Sample Holder, silicon net -/90 (3x pack)

- Silicon net component of the Sample Holder, compatible with CorePlate™ 1W and 6W, exercising a force of $\sim 90\mu\text{N}$ and without mesh (combine with Sample Holder body). Includes PETE transparent membrane filters. Pack of 3.

Sample Holder, silicon net 1000/90 (3x pack)

- Silicon net component of the Sample Holder, compatible with CorePlate™ 1W and 6W, exercising a force of $\sim 90\mu\text{N}$ and featuring openings of $\sim 1\text{mm}$ (combine with Sample Holder body). Pack of 3.

Sample Holder, silicon net 300/90 (3x pack)

- Silicon net component of the Sample Holder, compatible with CorePlate™ 1W and 6W, exercising a force of $\sim 90\mu\text{N}$ and featuring openings of $\sim 300\mu\text{m}$ height (combine with Sample Holder body). Pack of 3.

CorePlate 1W Cap with FEP Membrane and CorePlate 1W Cap with FEP Membrane, for Perfusion



These CorePlate 1W Cap with FEP Membrane have a transparent membrane (FEP: fluorinated ethylene-propylene) stretched across the top. The membrane allows the diffusion of gases, but limits evaporation, thus reducing the need for a humidified atmosphere while also preventing culture contamination. Caps can be sterilized and are available with just the FEP membrane (left figure) or equipped with a perfusion inlet and outlet (right figure).