

# **Ayanda Biosystems**

*Innovative diagnostic and drug discovery tools*

## ***Ayanda™ MEA Biochips***

## ***Product Catalog***

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**Ayanda Biosystems SA**

PSE Parc Scientifique

EPFL

CH-1015 Lausanne

Switzerland

Phone/Fax: +41 21 693 8631

[info@ayanda-biosys.com](mailto:info@ayanda-biosys.com)

<http://www.ayanda-biosys.com>



# Ayanda Biosystems

Innovative diagnostic and drug discovery tools

## MEA60 100 3D

### Product type

Multi-electrode array biochip compatible with the MEA60 data acquisition system from Multi Channel Systems MCS GmbH, Reutlingen, Germany.

### Characteristics

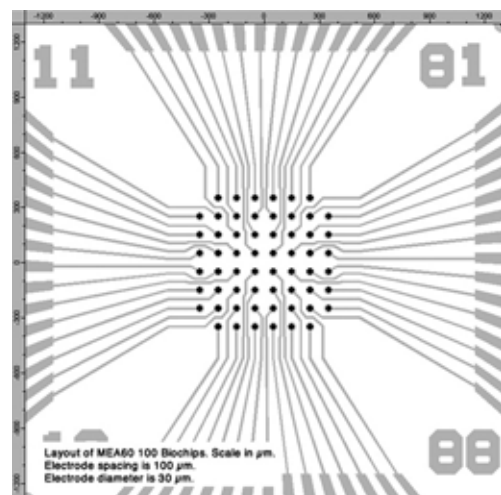
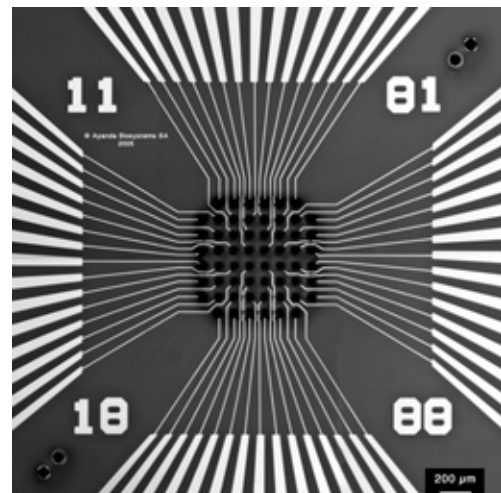
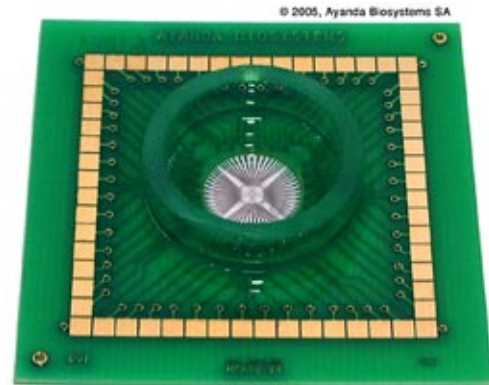
Substrate dimension: 15 mm x 15 mm x 0.6 mm  
Substrate material: float glass  
Insulation material: SU-8 epoxy, thickness 5  $\mu\text{m}$   
Number of electrodes: 60  
Electrode material: platinum  
Electrode geometry: 3D  
Electrode height: 25-35  $\mu\text{m}$   
Electrode layout: 8 x 8 matrix without corner electrodes

Electrodes dimension:  $\varnothing$  30  $\mu\text{m}$  circular electrodes  
Electrode spacing: 100  $\mu\text{m}$  centre to centre  
Impedance @ 1 kHz: 600-900 k $\Omega$   
Noise level: 15-20  $\mu\text{V}$   
Re-use: up to 100 times when using acute tissue slices, several when used for organotypic cultures.

Required accessories: MEA60 Spa-Y1 or MEA60 Spa-Y2

### Applications

Acute slice preparations and organotypic slice cultures (brain tissue, spinal cord, retina, etc.)



# Ayanda Biosystems

Innovative diagnostic and drug discovery tools

## MEA60 100 Au

### Product type

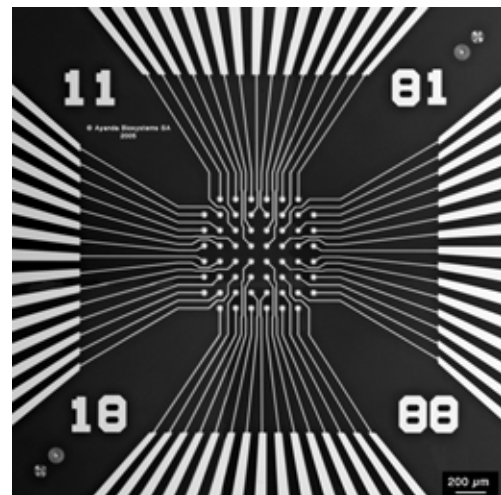
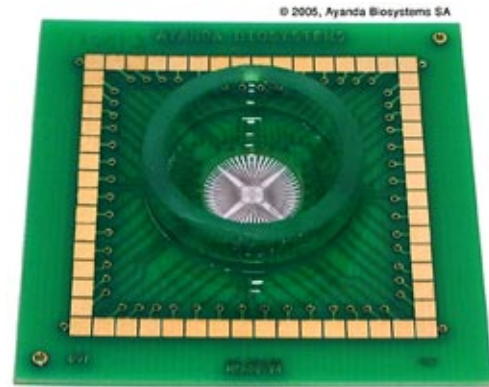
Multi-electrode array biochip compatible with the MEA60 data acquisition system from Multi Channel Systems MCS GmbH, Reutlingen, Germany.

### Characteristics

Substrate dimension: 15 mm x 15 mm x 0.7 mm  
Substrate material: float glass  
Insulation material: SU-8 epoxy, thickness 5  $\mu\text{m}$   
Number of electrodes: 60  
Electrode material: gold  
Electrode geometry: planar  
Electrode layout: 8 x 8 matrix without corner electrodes  
Electrodes dimension:  $\varnothing$  30  $\mu\text{m}$  circular electrodes  
Electrode spacing: 100  $\mu\text{m}$  centre to centre  
Impedance @ 1 kHz: 1000-1300 k $\Omega$   
Noise level: 25-30  $\mu\text{V}$   
Re-use: several times depending on type and duration of cultures.  
Required accessories: MEA60 Spa-Y1 or MEA60 Spa-Y2

### Applications

Organotypic slice cultures and dissociated cell cultures (brain tissue, spinal cord, retina, heart muscle cells, etc.)



# Ayanda Biosystems

Innovative diagnostic and drug discovery tools

## MEA60 100 Pt

### Product type

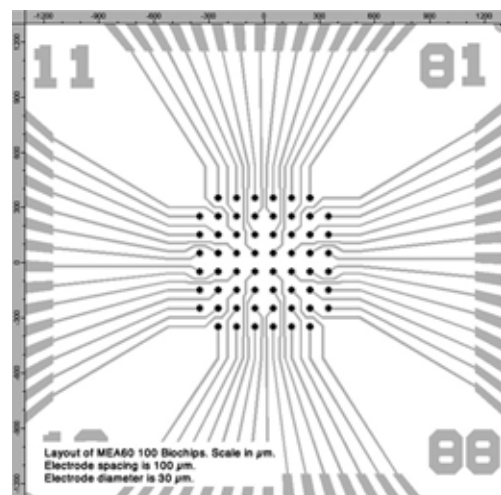
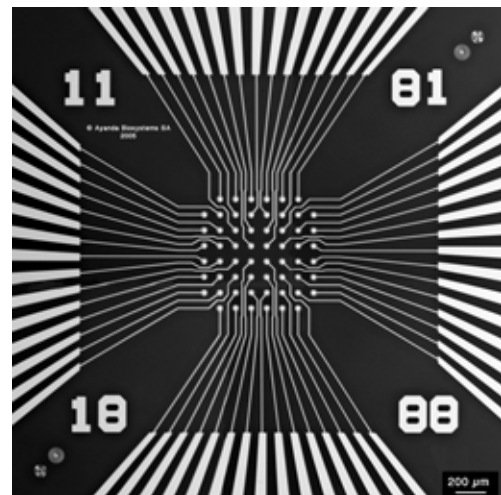
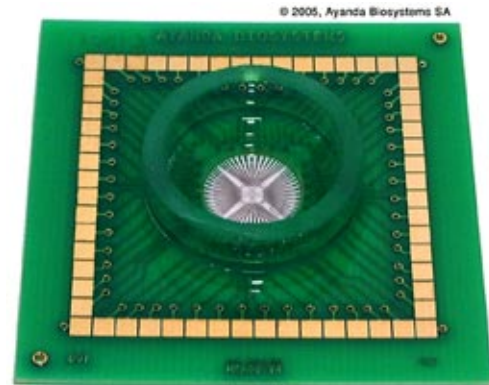
Multi-electrode array biochip compatible with the MEA60 data acquisition system from Multi Channel Systems MCS GmbH, Reutlingen, Germany.

### Characteristics

Substrate dimension: 15 mm x 15 mm x 0.7 mm  
Substrate material: float glass  
Insulation material: SU-8 epoxy, thickness 5  $\mu\text{m}$   
Number of electrodes: 60  
Electrode material: platinum  
Electrode geometry: planar  
Electrode layout: 8 x 8 matrix without corner electrodes  
Electrodes dimension:  $\varnothing$  30  $\mu\text{m}$  circular electrodes  
Electrode spacing: 100  $\mu\text{m}$  centre to centre  
Impedance @ 1 kHz: 800-1100 k $\Omega$   
Noise level: 20-25  $\mu\text{V}$   
Re-use: several times depending on type and duration of cultures.  
Required accessories: MEA60 Spa-Y1 or MEA60 Spa-Y2

### Applications

Organotypic slice cultures and dissociated cell cultures (brain tissue, spinal cord, retina, heart muscle cells, etc.)



## MEA60 200 3D

### Product type

Multi-electrode array biochip compatible with the MEA60 data acquisition system from Multi Channel Systems MCS GmbH, Reutlingen, Germany.

### Characteristics

Substrate dimension: 15 mm x 15 mm x 0.6 mm  
Substrate material: float glass  
Insulation material: SU-8 epoxy, thickness 5  $\mu\text{m}$   
Number of electrodes: 60  
Electrode material: platinum  
Electrode geometry: 3D  
Electrode height: 50-70  $\mu\text{m}$   
Electrode layout: 8 x 8 matrix without corner electrodes

Electrodes dimension: 40  $\mu\text{m}$  x 40  $\mu\text{m}$  square electrodes

Electrode spacing: 200  $\mu\text{m}$  centre to centre

Impedance @ 1 kHz: 250-450 k $\Omega$

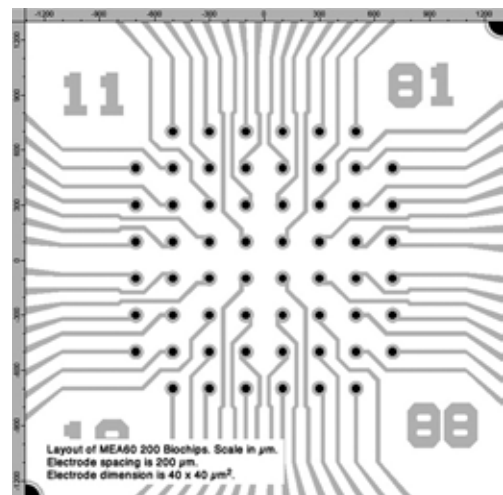
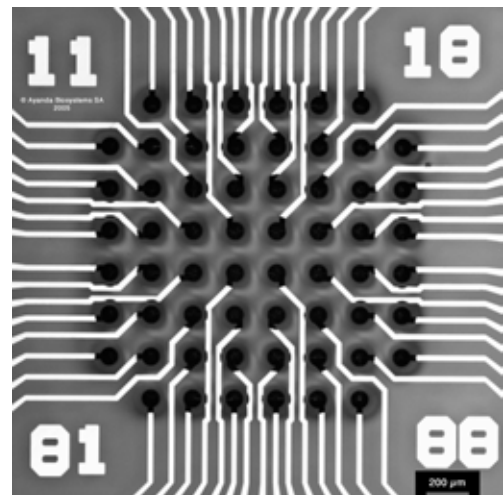
Noise level: 15-20  $\mu\text{V}$

Re-use: up to 100 times when using acute tissue slices, several times when used for organotypic cultures.

Required accessories: MEA60 Spa-Y1 or MEA60 Spa-Y2

### Applications

Acute slice preparations and organotypic slice cultures (brain tissue, spinal cord, retina, etc.)



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Innovative diagnostic and drug discovery tools

## MEA60 200 3D GND

### Product type

Multi-electrode array biochip compatible with the MEA60 data acquisition system from Multi Channel Systems MCS GmbH, Reutlingen, Germany.

### Characteristics

Substrate dimension: 15 mm x 15 mm x 0.6 mm  
Substrate material: float glass  
Insulation material: SU-8 epoxy, thickness 5  $\mu\text{m}$   
Number of electrodes: 60 (59 recording electrodes and 1 large GND electrode)

Electrode material: platinum  
Electrode geometry: 3D  
Electrode height: 50-70  $\mu\text{m}$   
Electrode layout: 8 x 8 matrix without corner electrodes

Electrodes dimension:  $\varnothing$  40  $\mu\text{m}$  circular electrodes

Electrode spacing: 200  $\mu\text{m}$  centre to centre

Impedance @ 1 kHz: 250-450 k $\Omega$ , GND < 2 k $\Omega$

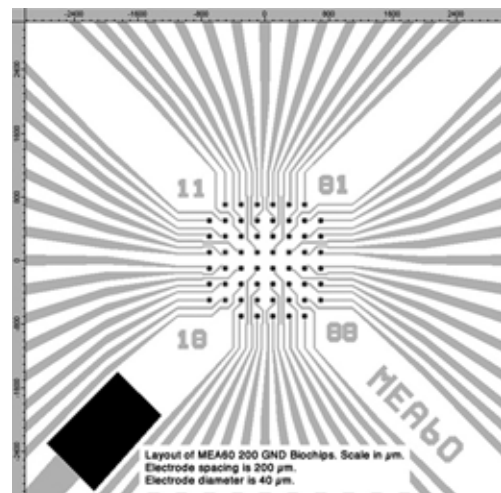
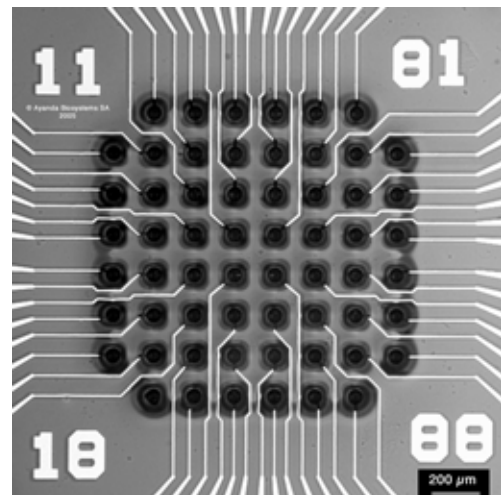
Noise level: 15-20  $\mu\text{V}$

Re-use: up to 100 times when using acute tissue slices, several times when used for organotypic cultures.

Required accessories: MEA60 Spa-Y1 or MEA60 Spa-Y2

### Applications

Acute slice preparations and organotypic slice cultures (brain tissue, spinal cord, retina, etc.)



# Ayanda Biosystems

Innovative diagnostic and drug discovery tools

## MEA60 200 Au

### Product type

Multi-electrode array biochip compatible with the MEA60 data acquisition system from Multi Channel Systems MCS GmbH, Reutlingen, germany.

### Characteristics

Substrate dimension: 15 mm x 15 mm x 0.7 mm  
Substrate material: float glass  
Insulation material: SU-8 epoxy, thickness 5  $\mu\text{m}$   
Number of electrodes: 60  
Electrode material: gold  
Electrode geometry: planar  
Electrode layout: 8 x 8 matrix without corner electrodes

Electrodes dimension: 40  $\mu\text{m}$  x 40  $\mu\text{m}$  square electrodes

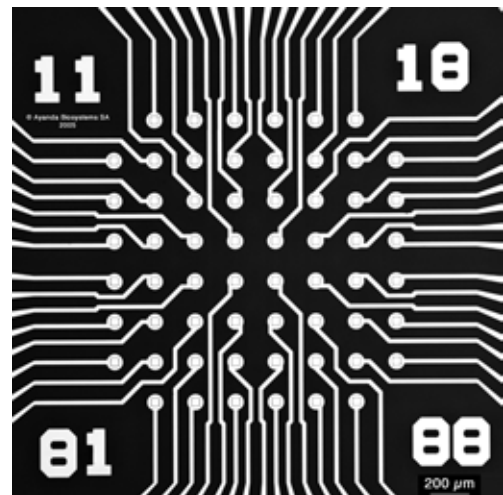
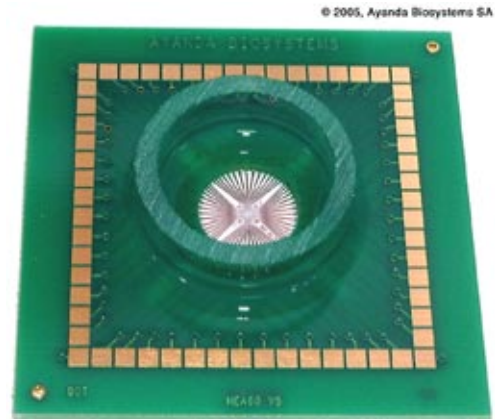
Electrode spacing: 200  $\mu\text{m}$  centre to centre

Impedance @ 1 kHz: 600-800 k $\Omega$

Noise level: 25-30  $\mu\text{V}$

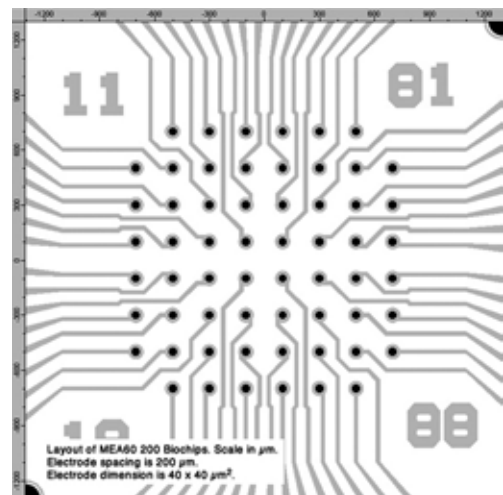
Re-use: several times depending on and duration of cultures.

Required accessories: MEA60 Spa-Y1 or MEA60 Spa-Y2



### Applications

Organotypic slice cultures and dissociated cell cultures (brain tissue, spinal cord, retina, heart muscle cells, etc.)





## MEA60 200 ITO

### Product type

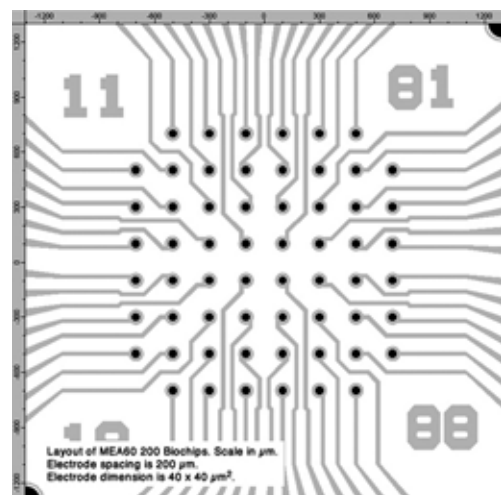
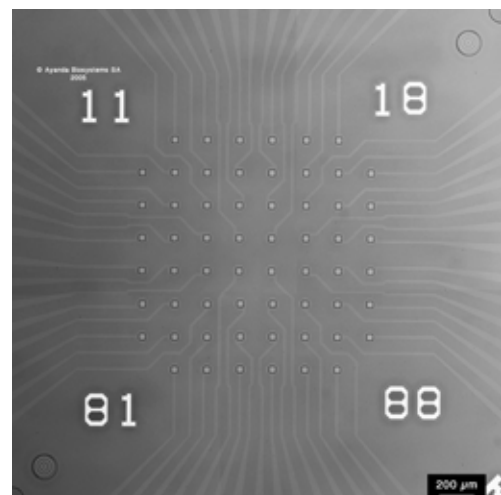
Multi-electrode array biochip compatible with the MEA60 data acquisition system from Multi Channel Systems MCS GmbH, Reutlingen, Germany.

### Characteristics

Substrate dimension: 15 mm x 15 mm x 0.7 mm  
Substrate material: float glass  
Insulation material: SU-8 epoxy, thickness 5  $\mu\text{m}$   
Number of electrodes: 60  
Electrode material: ITO (indium-tin oxide), a transparent conductive metal oxide  
Electrode geometry: planar  
Electrode layout: 8 x 8 matrix without corner electrodes  
Electrodes dimension: 40  $\mu\text{m}$  x 40  $\mu\text{m}$  square electrodes  
Electrode spacing: 200  $\mu\text{m}$  centre to centre  
Impedance @ 1 kHz: 1000-1300 k $\Omega$   
Noise level: 30-40  $\mu\text{V}$   
Re-use: several times depending on and duration of cultures.  
Required accessories: MEA60 Spa-Y1 or MEA60 Spa-Y2

### Applications

Organotypic slice cultures and dissociated cell cultures (brain tissue, spinal cord, retina, heart muscle cells, etc.)



## MEA60 200 Pt

### Product type

Multi-electrode array biochip compatible with the MEA60 data acquisition system from Multi Channel Systems MCS GmbH, Reutlingen, germany.

### Characteristics

Substrate dimension: 15 mm x 15 mm x 0.7 mm  
Substrate material: float glass  
Insulation material: SU-8 epoxy, thickness 5  $\mu\text{m}$   
Number of electrodes: 60  
Electrode material: platinum  
Electrode geometry: planar  
Electrode layout: 8 x 8 matrix without corner electrodes

Electrodes dimension: 40  $\mu\text{m}$  x 40  $\mu\text{m}$  square electrodes

Electrode spacing: 200  $\mu\text{m}$  centre to centre

Impedance @ 1 kHz: 400-600 k $\Omega$

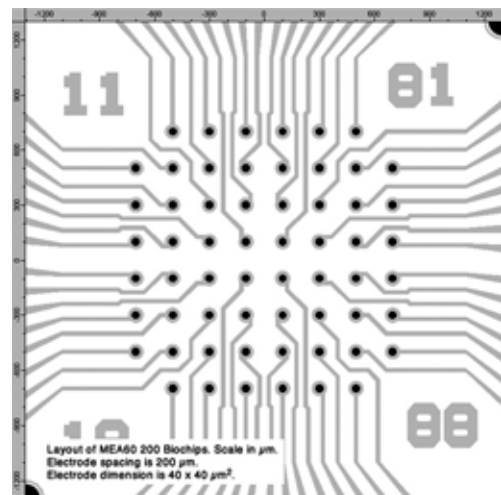
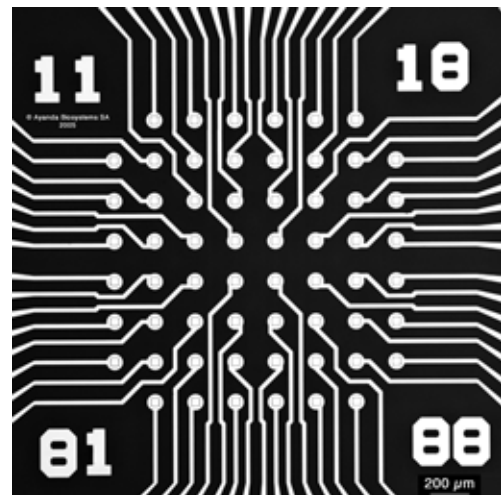
Noise level: 20-25  $\mu\text{V}$

Re-use: several times depending on and duration of cultures.

Required accessories: MEA60 Spa-Y1 or MEA60 Spa-Y2

### Applications

Organotypic slice cultures and dissociated cell cultures (brain tissue, spinal cord, retina, heart muscle cells, etc.)



# Ayanda Biosystems

Innovative diagnostic and drug discovery tools

## MEA60 200 Pt GND

### Product type

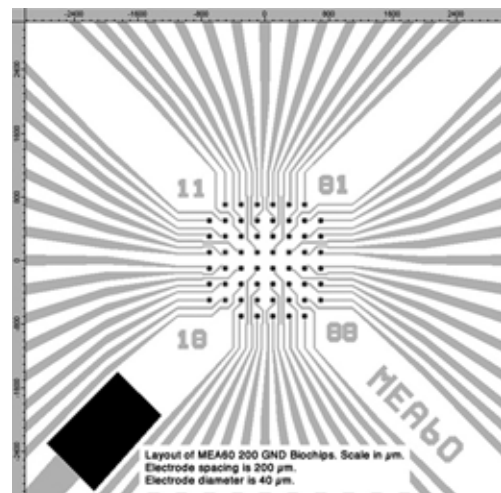
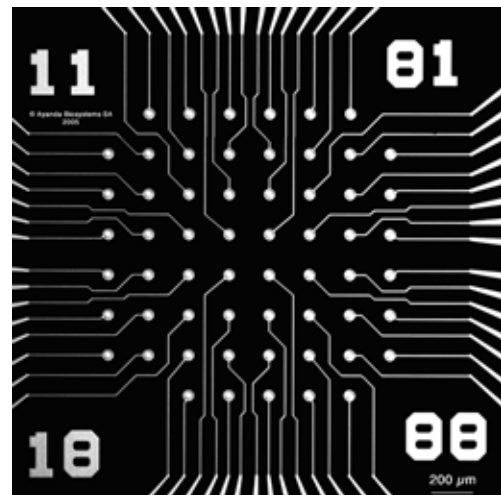
Multi-electrode array biochip compatible with the MEA60 data acquisition system from Multi Channel Systems MCS GmbH, Reutlingen, Germany.

### Characteristics

Substrate dimension: 15 mm x 15 mm x 0.7 mm  
Substrate material: float glass  
Insulation material: SU-8 epoxy, thickness 5  $\mu\text{m}$   
Number of electrodes: 60 (59 recording electrodes and 1 large GND electrode)  
Electrode material: platinum  
Electrode geometry: planar  
Electrode layout: 8 x 8 matrix without corner electrodes  
Electrodes dimension:  $\varnothing$  40  $\mu\text{m}$  circular electrodes  
Electrode spacing: 200  $\mu\text{m}$  centre to centre  
Impedance @ 1 kHz: 500-650 k $\Omega$   
Noise level: 20-25  $\mu\text{V}$ , GND < 2 k $\Omega$   
Re-use: several times depending on and duration of cultures.  
Required accessories: MEA60 Spa-Y1 or MEA60 Spa-Y2

### Applications

Organotypic slice cultures and dissociated cell cultures (brain tissue, spinal cord, retina, heart muscle cells, etc.)



# Ayanda Biosystems

Innovative diagnostic and drug discovery tools

## MEA60 200 Pt/ITO

### Product type

Multi-electrode array biochip compatible with the MEA60 data acquisition system from Multi Channel Systems MCS GmbH, Reutlingen, Germany.

### Characteristics

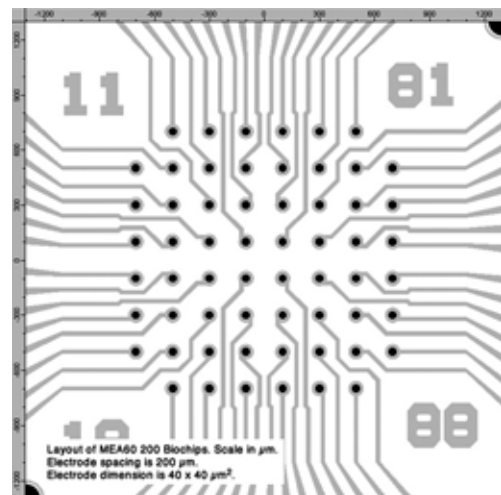
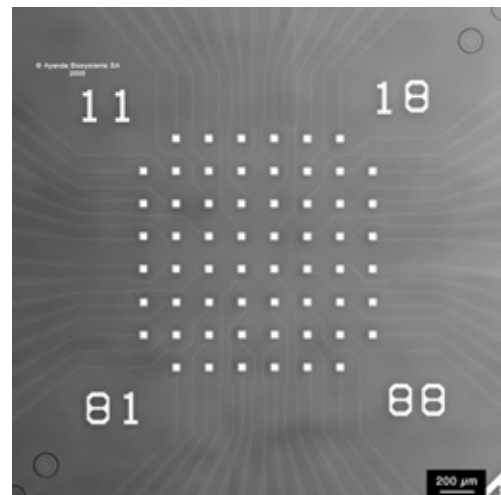
Substrate dimension: 15 mm x 15 mm x 0.7 mm  
Substrate material: float glass  
Insulation material: SU-8 epoxy, thickness 5  $\mu\text{m}$   
Number of electrodes: 60  
Electrode material: platinum  
Electrode leads: ITO (indium-tin oxide), a transparent conductive metal oxide

Electrode geometry: planar  
Electrode layout: 8 x 8 matrix without corner electrodes

Electrodes dimension: 40  $\mu\text{m}$  x 40  $\mu\text{m}$  square electrodes  
Electrode spacing: 200  $\mu\text{m}$  centre to centre  
Impedance @ 1 kHz: 400-600 k $\Omega$   
Noise level: 20-25  $\mu\text{V}$   
Re-use: several times depending on and duration of cultures.  
Required accessories: MEA60 Spa-Y1 or MEA60 Spa-Y2

### Applications

Organotypic slice cultures and dissociated cell cultures (brain tissue, spinal cord, retina, heart muscle cells, etc.)



# Ayanda Biosystems

Innovative diagnostic and drug discovery tools

## MEA60 5x13 3D

### Product type

Multi-electrode array biochip compatible with the MEA60 data acquisition system from Multi Channel Systems MCS GmbH, Reutlingen, Germany.

### Characteristics

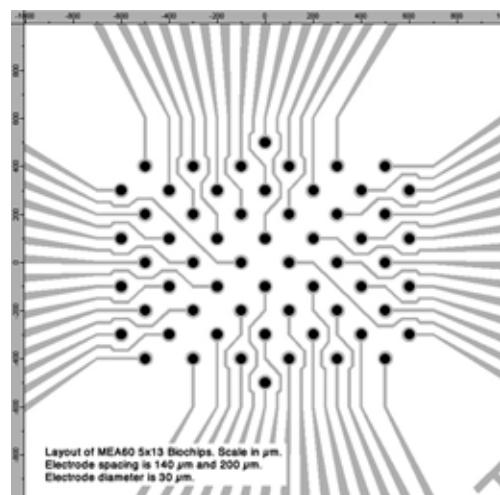
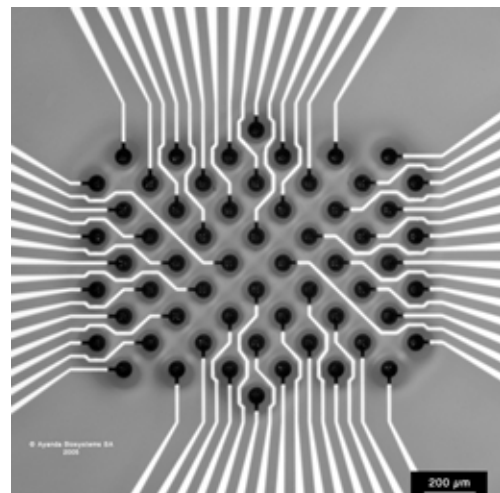
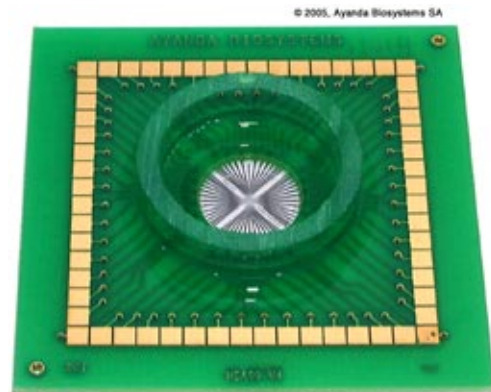
Substrate dimension: 15 mm x 15 mm x 0.6 mm  
Substrate material: float glass  
Insulation material: SU-8 epoxy, thickness 5  $\mu\text{m}$   
Number of electrodes: 60  
Electrode material: platinum  
Electrode geometry: 3D  
Electrode height: 35-45  $\mu\text{m}$   
Electrode layout: 5 x 13 matrix  
Electrodes dimension:  $\varnothing$  40  $\mu\text{m}$  circular electrodes  
Electrode spacing: 140  $\mu\text{m}$  and 200  $\mu\text{m}$  centre to centre

Impedance @ 1 kHz: 350-500 k $\Omega$   
Noise level: 15-20  $\mu\text{V}$   
Re-use: up to 100 times when using acute tissue slices, several times when used for organotypic cultures.

Required accessories: MEA60 Spa-Y1 or MEA60 Spa-Y2

### Applications

Acute slice preparations and organotypic slice cultures (brain tissue, spinal cord, retina, etc.)



# Ayanda Biosystems

Innovative diagnostic and drug discovery tools

## MEA60 5x13 Au

### Product type

Multi-electrode array biochip compatible with the MEA60 data acquisition system from Multi Channel Systems MCS GmbH, Reutlingen, Germany.

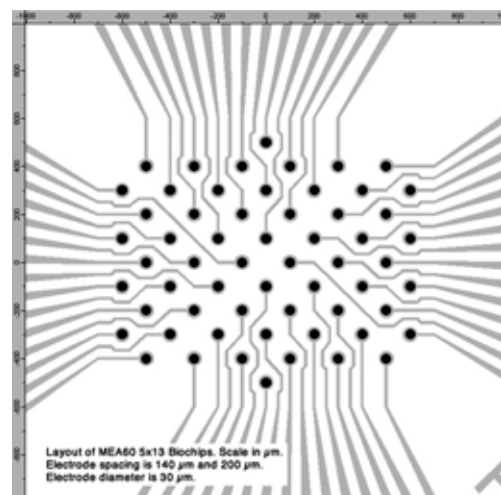
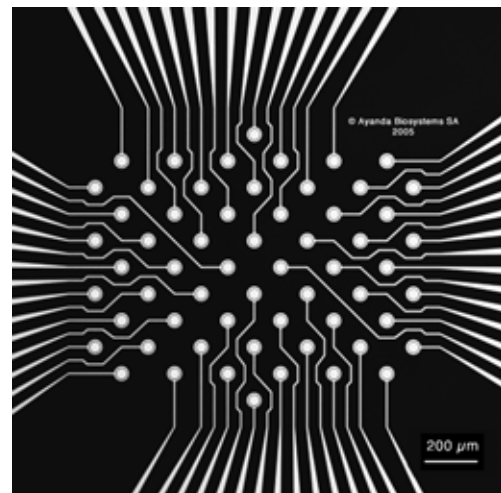
### Characteristics

Substrate dimension: 15 mm x 15 mm x 0.7 mm  
Substrate material: float glass  
Insulation material: SU-8 epoxy, thickness 5  $\mu\text{m}$   
Number of electrodes: 60  
Electrode material: gold  
Electrode geometry: planar  
Electrode layout: 5 x 13 matrix  
Electrodes dimension:  $\varnothing$  40  $\mu\text{m}$  circular electrodes  
Electrode spacing: 140  $\mu\text{m}$  and 200  $\mu\text{m}$  centre to centre

Impedance @ 1 kHz: 700-900  $\text{k}\Omega$   
Noise level: 25-30  $\mu\text{V}$   
Re-use: several times depending on type and duration of cultures.  
Required accessories: MEA60 Spa-Y1 or MEA60 Spa-Y2

### Applications

Organotypic slice cultures and dissociated cell cultures (brain tissue, spinal cord, retina, heart muscle cells, etc.)



# Ayanda Biosystems

Innovative diagnostic and drug discovery tools

## MEA60 5x13 Pt

### Product type

Multi-electrode array biochip compatible with the MEA60 data acquisition system from Multi Channel Systems MCS GmbH, Reutlingen, germany.

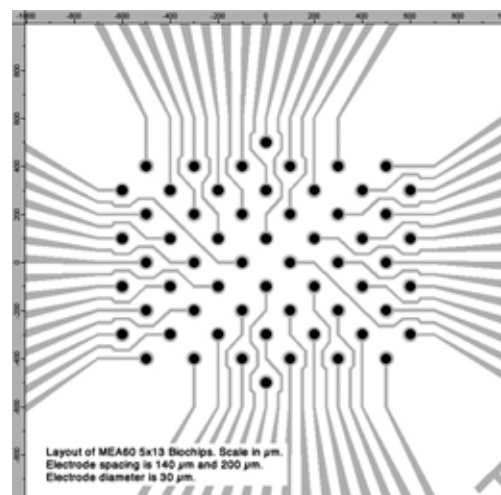
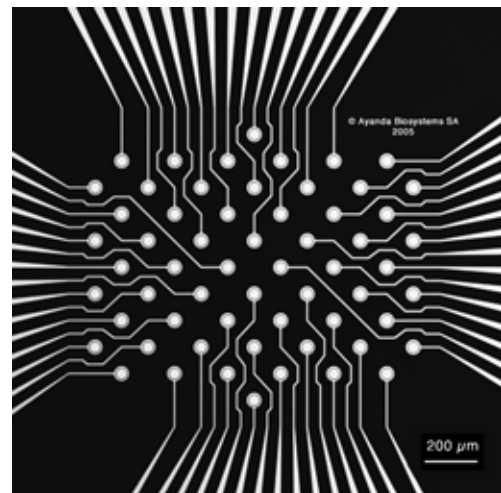
### Characteristics

Substrate dimension: 15 mm x 15 mm x 0.7 mm  
Substrate material: float glass  
Insulation material: SU-8 epoxy, thickness 5  $\mu\text{m}$   
Number of electrodes: 60  
Electrode material: platinum  
Electrode geometry: planar  
Electrode layout: 5 x 13 matrix  
Electrodes dimension:  $\varnothing$  40  $\mu\text{m}$  circular electrodes  
Electrode spacing: 140  $\mu\text{m}$  and 200  $\mu\text{m}$  centre to centre

Impedance @ 1 kHz: 500-650 k $\Omega$   
Noise level: 20-25  $\mu\text{V}$   
Re-use: several times depending on type and duration of cultures.  
Required accessories: MEA60 Spa-Y1 or MEA60 Spa-Y2

### Applications

Organotypic slice cultures and dissociated cell cultures (brain tissue, spinal cord, retina, heart muscle cells, etc.)



# Ayanda Biosystems

Innovative diagnostic and drug discovery tools

## MEA60 200 Pt 21x21

### Product type

Multi-electrode array biochip compatible with the MEA60 data acquisition system from Multi Channel Systems MCS GmbH, Reutlingen, Germany.

### Characteristics

Substrate dimension: 21 mm x 21 mm x 0.7 mm  
Substrate material: float glass  
Insulation material: SU-8 epoxy, thickness 5  $\mu\text{m}$   
Number of electrodes: 72 (60 recording electrodes, 8 stimulation electrodes, 4 GND electrodes)

Electrode material: platinum  
Electrode geometry: planar  
Electrode layout: 8 x 8 matrix without corner electrodes

Electrodes dimension: 40  $\mu\text{m}$  x 40  $\mu\text{m}$  square electrodes

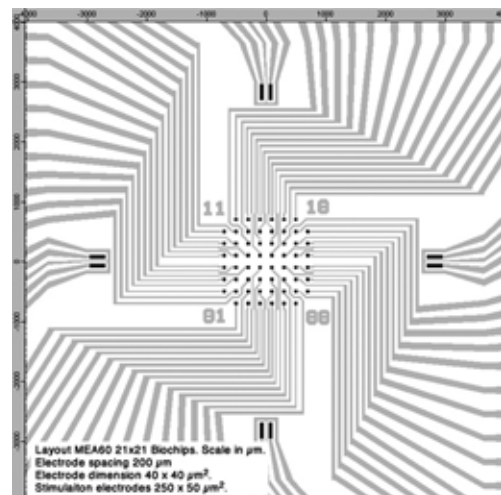
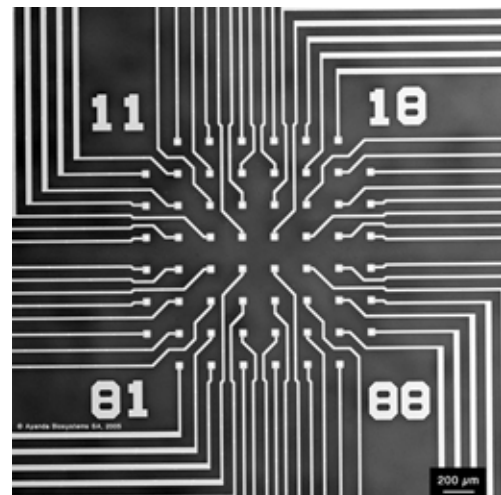
Electrode spacing: 200  $\mu\text{m}$  centre to centre  
Impedance @ 1 kHz: 400-600 k $\Omega$ , stimulation electrodes 50-90 k $\Omega$ , GND < 10 k $\Omega$

Noise level: 20-25  $\mu\text{V}$   
Re-use: several times depending on type and duration of cultures.

Required accessories: MEA60 Spa-Y2 and MEA1060-Y1 or MEA1060-Y2 depending on MEA1060 amplifier from MultiChannel

### Applications

Organotypic slice cultures and dissociated cell cultures (brain tissue, spinal cord, retina, heart muscle cells, etc.)





# Ayanda Biosystems

Innovative diagnostic and drug discovery tools

## MEA60 4Wells

### Product type

Multi-electrode array biochip compatible with the MEA60 data acquisition system from Multi Channel Systems MCS GmbH, Reutlingen, Germany.

### Characteristics

Substrate dimension: 21 mm x 21 mm x 0.7 mm  
Substrate material: float glass  
Insulation material: SU-8 epoxy, thickness 5  $\mu\text{m}$   
Number of electrodes: 72 (60 recording electrodes, 8 stimulation electrodes, 4 GND electrodes)

Electrode material: platinum  
Electrode geometry: planar  
Electrode layout: 4x4 matrix without 1 corner electrode

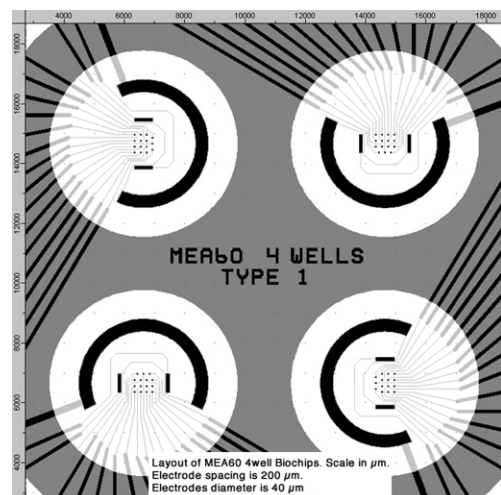
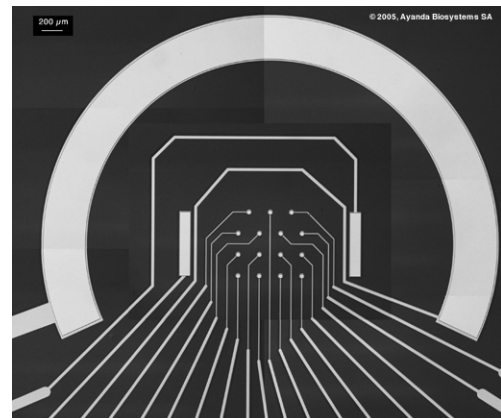
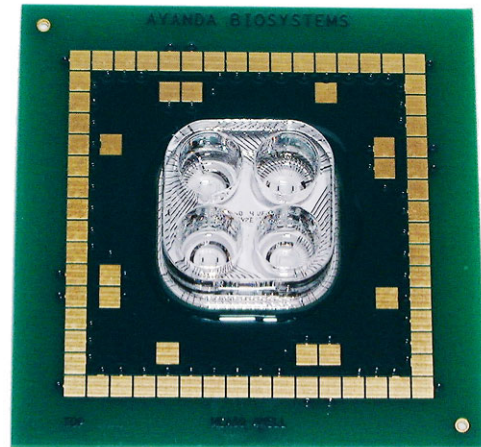
Electrodes dimension:  $\varnothing$  40  $\mu\text{m}$   
Electrode spacing: 200  $\mu\text{m}$  centre to centre  
Impedance @ 1 kHz: 500-700 k $\Omega$ , stimulation electrodes 20-30 k $\Omega$ , GND 500  $\Omega$

Noise level: 20-25  $\mu\text{V}$   
Re-use: several times depending on type and duration of cultures.

Required accessories: MEA60 Spa-Y2 and MEA1060-Y1 or MEA1060-Y2 depending on MEA1060 amplifier from Multi Channel Systems MCS GmbH

### Applications

Dissociated cell cultures (brain tissue, spinal cord, retina, heart muscle cells, etc.)



# Ayanda Biosystems

Innovative diagnostic and drug discovery tools

## MEA60 4x15 3D (size 1)

### Product type

Multi-electrode array biochip compatible with the MEA60 data acquisition system from Multi Channel Systems MCS GmbH, Reutlingen, Germany.

### Characteristics

Substrate dimension: 21 mm x 21 mm x 0.55 mm  
Substrate material: float glass  
Insulation material: SU-8 epoxy, thickness 5  $\mu\text{m}$   
Number of electrodes: 72 (60 recording electrodes, 8 stimulation electrodes, 4 GND electrodes)

Electrode material: platinum  
Electrode geometry: 3D  
Electrode height: 60-80  $\mu\text{m}$   
Electrode layout: 4 x 15 matrix  
Electrodes dimension:  $\varnothing$  80  $\mu\text{m}$  circular electrodes  
Electrode spacing: X axis: 250  $\mu\text{m}$ , Y axis: 750  $\mu\text{m}$   
centre to centre

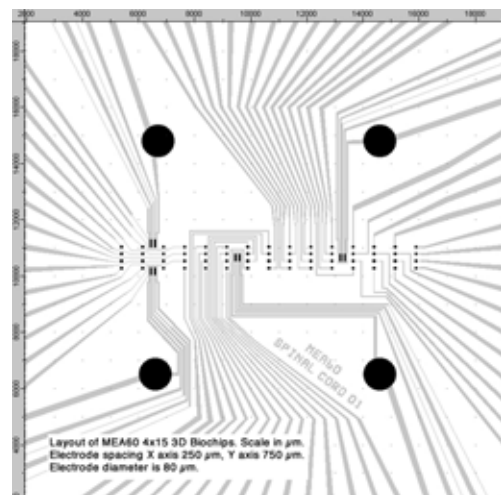
Impedance @ 1 kHz: 80-150 k $\Omega$ , stimulation electrodes 50-90 k $\Omega$ , GND < 10 k $\Omega$

Noise level: 10-15  $\mu\text{V}$   
Re-use: several times depending on type and duration of cultures.

Required accessories: MEA60 Spa-Y2 and MEA1060-Y1 or MEA1060-Y2 depending on MEA1060 amplifier from MultiChannel

### Applications

Organotypic slice cultures and dissociated cell cultures (brain tissue, spinal cord, retina, heart muscle cells, etc.)



# Ayanda Biosystems

Innovative diagnostic and drug discovery tools

## MEA60 4x15 3D (size 2)

### Product type

Multi-electrode array biochip compatible with the MEA60 data acquisition system from Multi Channel Systems MCS GmbH, Reutlingen, Germany.

### Characteristics

Substrate dimension: 21 mm x 21 mm x 0.55 mm  
Substrate material: float glass  
Insulation material: SU-8 epoxy, thickness 5  $\mu\text{m}$   
Number of electrodes: 72 (60 recording electrodes, 8 stimulation electrodes, 4 GND electrodes)

Electrode material: platinum  
Electrode geometry: 3D  
Electrode height: 60-80  $\mu\text{m}$   
Electrode layout: 4 x 15 matrix  
Electrodes dimension:  $\varnothing$  80  $\mu\text{m}$  circular electrodes  
Electrode spacing: X axis: 300  $\mu\text{m}$ , Y axis: 900  $\mu\text{m}$   
centre to centre

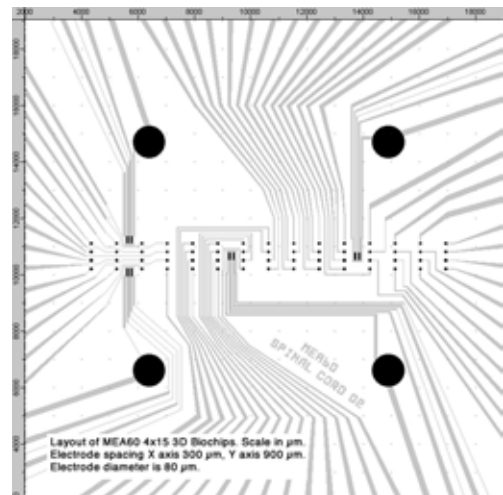
Impedance @ 1 kHz: 80-150 k $\Omega$ , stimulation electrodes 50-90 k $\Omega$ , GND < 10 k $\Omega$

Noise level: 10-15  $\mu\text{V}$   
Re-use: several times depending on type and duration of cultures.

Required accessories: MEA60 Spa-Y2 and MEA1060-Y1 or MEA1060-Y2 depending on MEA1060 amplifier from MultiChannel

### Applications

Organotypic slice cultures and dissociated cell cultures (brain tissue, spinal cord, retina, heart muscle cells, etc.)



# Ayanda Biosystems

Innovative diagnostic and drug discovery tools

## MEA60 4x15 3D (size 3)

### Product type

Multi-electrode array biochip compatible with the MEA60 data acquisition system from Multi Channel Systems MCS GmbH, Reutlingen, Germany.

### Characteristics

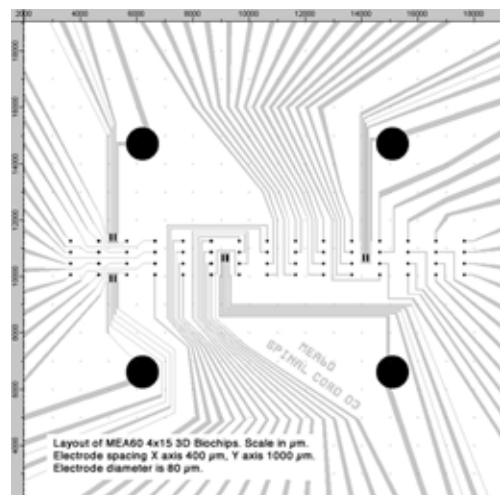
Substrate dimension: 21 mm x 21 mm x 0.55 mm  
Substrate material: float glass  
Insulation material: SU-8 epoxy, thickness 5  $\mu\text{m}$   
Number of electrodes: 72 (60 recording electrodes, 8 stimulation electrodes, 4 GND electrodes)

Electrode material: platinum  
Electrode geometry: 3D  
Electrode height: 60-80  $\mu\text{m}$   
Electrode layout: 4 x 15 matrix  
Electrodes dimension:  $\varnothing$  80  $\mu\text{m}$  circular electrodes  
Electrode spacing: X axis: 400  $\mu\text{m}$ , Y axis: 1000  $\mu\text{m}$  centre to centre  
Impedance @ 1 kHz: 80-150 k $\Omega$ , stimulation electrodes 50-90 k $\Omega$ , GND < 10 k $\Omega$

Noise level: 10-15  $\mu\text{V}$   
Re-use: several times depending on type and duration of cultures.  
Required accessories: MEA60 Spa-Y2 and MEA1060-Y1 or MEA1060-Y2 depending on MEA1060 amplifier from MultiChannel

### Applications

Organotypic slice cultures and dissociated cell cultures (brain tissue, spinal cord, retina, heart muscle cells, etc.)



## MEA60 Spa-Y1

### Product type

Spacer for multi-electrode array biochip.

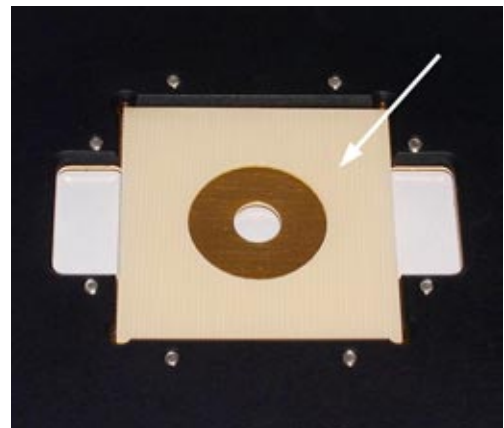
### Characteristics

Printed Circuit Board that is required for safe handling of Ayanda™ MEA60 Biochips. It has to be placed at bottom of MEA1060 amplifier from Multi Channel Systems MCS GmbH, Germany.

Adapted to all Ayanda™ MEA60 Biochips based on 15 mm x 15 mm glass substrates.

Dimensions: 49 mm x 49 mm x 0.7 mm

Hole:  $\varnothing$  25 mm



### Applications

Avoids MEA60 biochip irreversible damage while placed in the MCS MEA1060 amplifier.

## MEA60 Spa-Y2

### Product type

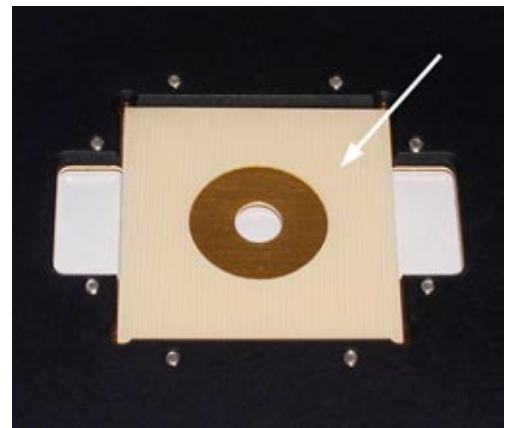
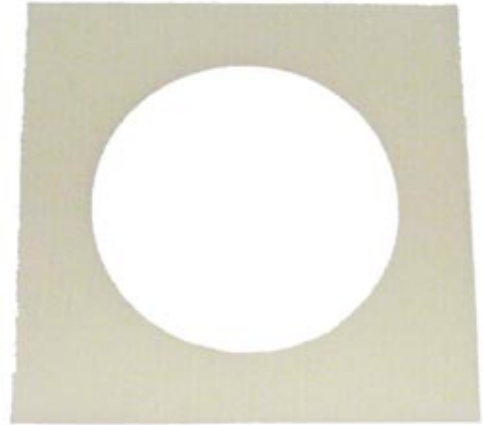
Spacer for multi-electrode array biochip.

### Characteristics

Printed Circuit Board that is required for safe handling of Ayanda™ MEA60 Biochips. It has to be placed at bottom of MEA1060 amplifier from Multi Channel Systems MCS GmbH, Germany.

Adapted to all Ayanda™ MEA60 Biochips.

Dimensions: 49 mm x 49 mm x 0.7 mm  
Hole: ø 33 mm



### Applications

Avoids MEA60 biochip irreversible damage while placed in the MCS MEA1060 amplifier.

## MEA1060-Y1

### Product type

Accessory for connection of supplementary GND and stimulation electrodes.

### Characteristics

Small printed circuit board that is fixed on the MEA1060-1 amplifier for inverted microscopes from Multi Channel Systems MCS GmbH, Germany.

Allows connection to 8 supplementary stimulation electrodes (4 pairs of 2) and 4 substrate integrated GND electrodes for Ayanda™ MEA60 Biochips based on large (21x21 mm<sup>2</sup>) substrates.

Allows connection of 2 supplementary wires to GND.

Dimensions: 34 mm x 34 mm x 22 mm



### Applications

Allows connection to supplementary MEA60 biochip integrated GND and stimulation electrodes.

## MEA1060-Y2

### Product type

Accessory for connection of supplementary GND and stimulation electrodes.

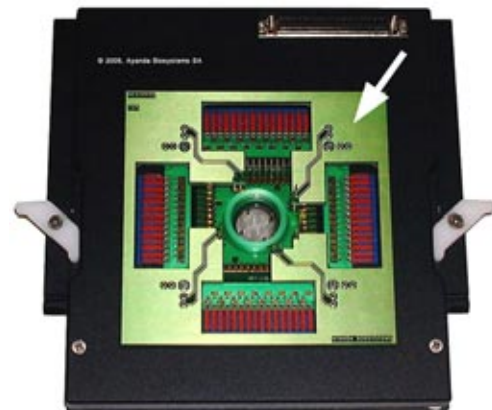
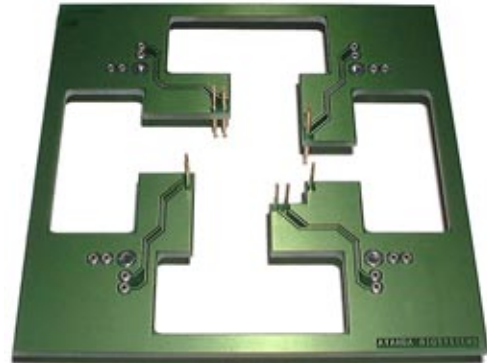
### Characteristics

Printed circuit board that is fixed on the MEA1060-2 amplifier for upright microscopes from Multi Channel Systems MCS GmbH, Germany.

Allows connection to 8 supplementary stimulation electrodes (4 pairs of 2) and 4 substrate integrated GND electrodes for Ayanda™ MEA60 Biochips based on large (21x21 mm<sup>2</sup>) substrates.

Allows connection of 8 supplementary wires to GND.

Dimensions: 103 mm x 103 mm x 22 mm



### Applications

Allows connection to supplementary MEA60 biochip integrated GND and stimulation electrodes.



## Custom Designed MEA Biochips

### Product type

Custom layout MEA biochips

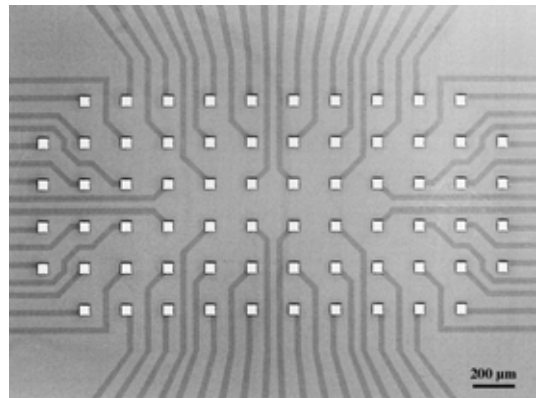
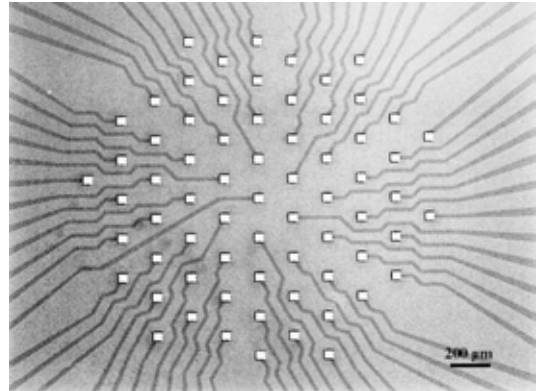
### Characteristics

We can also offer upon request user-specific solutions in terms of MEA-layout configuration. Ayanda™ MEA biochips can be adapted to other amplification and data acquisition systems.

We would be pleased to provide a quote upon request.

There would be some tooling costs and the minimum order quantity is 25 MEA biochips.

Price of MEA biochips corresponds to price of similar existing MEA biochips.



### Applications

Dissociated cell cultures  
Organotypic cultures  
Acute tissue slices ...