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ADHESIVE MATRICES

Version 1.2

OT Bioelettronica offers a set of adhesive matrices for surface electromyographic acquisitions. The electrode grids are present in 5 different formats with different inter-electrode distance (IED). Three different models with 64 electrodes, two model with 32 electrodes. The electrode matrices must be placed by interposing the double-sided adhesive foam certified for use in contact with the skin according to ISO 10993-1 between the matrix and the intact skin. The double-sided adhesive foams have holes corresponding to the electrode site that must be filled with conductive cream to create the contact between skin and electrodes.

Materials

Material information	
Supporting material	Kapton and FR4
Sensor	Cu + chemical gilding
Connector	Kapton with gold contacts
Packaging	
Product packaging	Paper/PE
Department packaging	Paper cardboard

Health

Biocompatibility	
Latex	No
Phthalates	No
CE Marking	MDR 2017/745
RoHS	In compliance

Technical Features

Number of grid model	5
Generic Code	HDXXMMXXYY
Models	
HD10MM0804	32 electrodes with IED 10mm, 8 rows x 4 cols
HD10MM0808	64 electrodes with IED 10mm, 8 rows x 8 cols
HD08MM1305	64 electrodes with IED 8mm, 13 rows x 5 cols
HD04MM1305	64 electrodes with IED 4mm, 13 rows x 5 cols
HD20MM1602	32 electrodes with IED 20mm, 16 rows x 2 cols
Connector	Zif
Thickness	1,5 mm
Electrical characteristics	
Electrode-skin impedance range	10-200 kohm

Cleaning

Any residual of conductive cream must be removed from the electrode surface after use. Long exposition to liquids and cream can oxidate the surface of the electrodes by increasing the contact impedance and resulting in a poor signal quality. A dry cloth can be used to remove the conductive cream and dry the electrodes surface. Alcohol can be used to disinfect the electrode matrices.

Sensing area

The sensing area determining the electrode-skin impedance is the foam holes area. The interface between conductive cream and the electrodes on the matrices has negligible impedance compared to the interface between skin and conductive cream.

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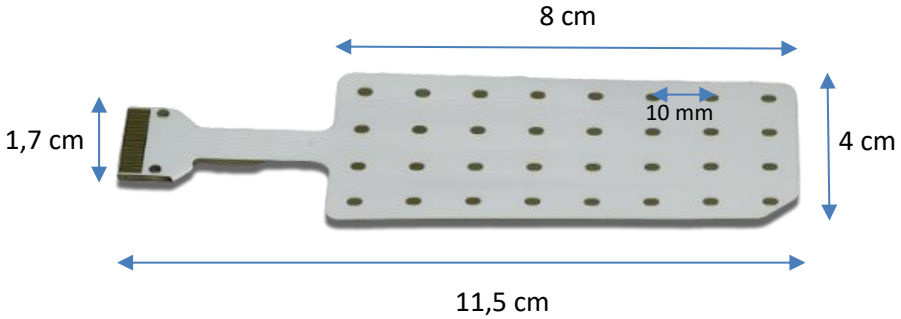
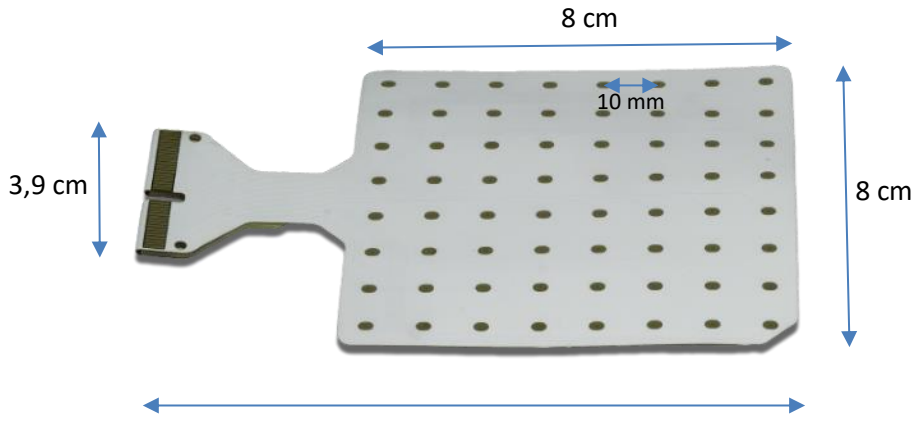
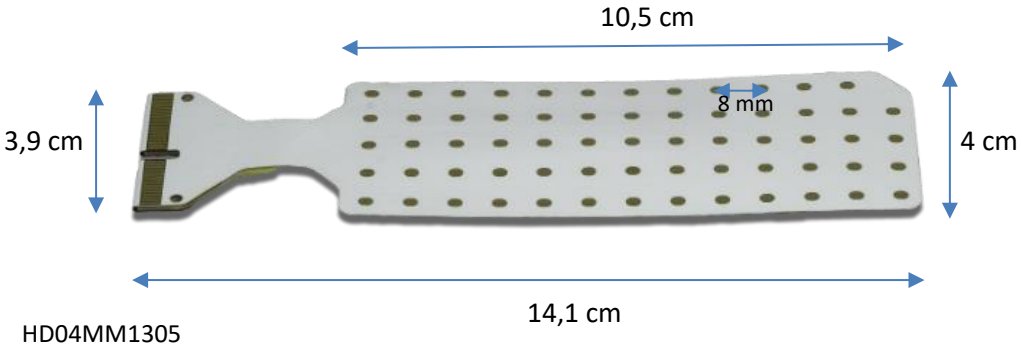
HD10MM0804



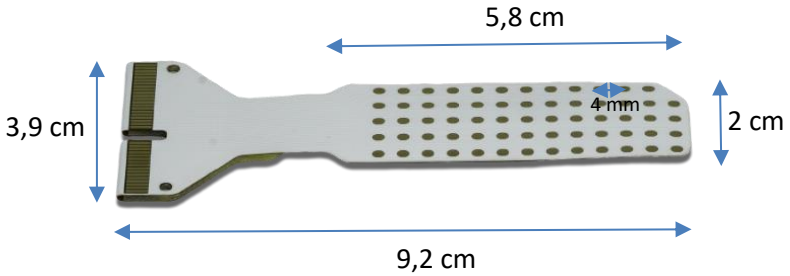
HD10MM0808



HD08MM1305



HD04MM1305



HD20MM1602