

## R-Net MR | Brain Products GmbH > Solutions

| Technical specifications            | R-Net MR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Features                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Sizes (cm)                          | Adults: 55, 57, 59, 61 Children: 49, 51, 53                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Fabric                              | Silicone net                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Electrodes                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Electrode type                      | EEG: passive sponge-based electrode with Ag/AgCl pellet Dropdown electrode: Multitrodes for MR with sintered Ag/AgCl sensors                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Height                              | Approx. 16 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Diameter                            | Approx. 13 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Number of channels                  | 32, 64, 96, 128 (for sizes 49-61)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Current limiting resistors          | EEG channels: 10 k $\Omega$ (5 in electrode and 5 in connection box) drop-down channels: 20 k $\Omega$ (15 in electrode and 5 in connection box) REF: 15 k $\Omega$ (10 in electrode and 5 in connection box) GND: 15 k $\Omega$ (10 in electrode and 5 in connection box)                                                                                                                                                                                                                                                                          |
| Cable length                        | 31 cm (including connector box)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Cable tree exit point               | CPz or FFCz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Carbon Wire Loops                   | 4 bipolar loops at left-frontal, right-frontal, left-parietal, and right parietal locations                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Miscellaneous                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Suitable for use in MR scanner room | Yes, up to 3 T. MR conditional, i.e. guidelines must be observed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| MR safety label                     | MR conditional                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Medical device                      | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| CE marking                          | Brain Products GmbH confirms the RoHS compliance of this product according to the Directive 2011/65/EU of the European Parliament and the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (recast published in the Official Journal of the European Union on 1 July 2011) as well as all its amendments up to and including the Commission delegated directive (EU) 2015/863 of 31 March 2015 (published in the Official Journal of the European Union on 4 June 2015). |