

Details for Users

Ordering Information

Catalogue-Number: BC-128-# (please replace # by cap size)

Cap sizes are given in cm head circumference:

- Adult caps: 54, 56, 58, 60, 62 (average male: 58, average female: 54)
- Children caps: 52 (7 years), 54 (11 years)

Note: We supply caps with adjusted cuts for Asian head shapes. If requested, please mention it in your order.

The catalogue-number comprises the cap as described, serial number, and this document; all packed in a labelled cardboard box. For further information about accessories or consumables please visit our website or contact our local distributor.

Cap

Subtemporal Cap with integrated chin belt
AsiaCut upon request

Electrodes

All electrodes are Multitrodes with sintered Ag/AgCl sensors. They are buttoned directly into the cap (total height 3,5 mm) or can be attached to the skin with washers (= double-sided adhesive rings).

All electrodes are number-labelled at the sensor end.
The cable colours correspond to the above figure.

The cables are attached to the cap with nylon threads. Four cable trees leave the cap plait-like in front of and behind the ears, pointing downwards. 20 cm before the connector-boxes there is a crossing-point. Lengths of cable trees are approx. 120 cm.

Termination

Each cable tree is led into a Connector box. From here the caps are connected to BrainAmp with 30 cm-flat-ribbon-cables. These flat ribbon cables come with the BrainAmps. They can be re-ordered from BrainProducts (Cat.-No. BP-02400-NN) or from EasyCap (Cat.-No. E80).

Theta/Phi-Coordinates

Please find a table with Theta/Phi-Coordinates of all electrode sites at the end of this file.

Table of Coordinates

| Channel-number | Name | Theta | Phi |
|----------------|------|-------|-----|
| 1 | Fp1 | -90 | -72 |
| 2 | Fp2 | 90 | 72 |
| 3 | F3 | -60 | -51 |
| 4 | F4 | 60 | 51 |
| 5 | C3 | -45 | 0 |
| 6 | C4 | 45 | 0 |
| 7 | P3 | -60 | 51 |
| 8 | P4 | 60 | -51 |
| 9 | O1 | -90 | 72 |
| 10 | O2 | 90 | -72 |
| 11 | F7 | -90 | -36 |
| 12 | F8 | 90 | 36 |
| 13 | T7 | -90 | 0 |
| 14 | T8 | 90 | 0 |
| 15 | P7 | -90 | 36 |
| 16 | P8 | 90 | -36 |
| 17 | Fz | 45 | 90 |
| 18 | Cz | 0 | 0 |
| 19 | Pz | 45 | -90 |
| 20 | IO | -- | -- |
| 21 | FC1 | -31 | -46 |
| 22 | FC2 | 31 | 46 |
| 23 | CP1 | -31 | 46 |
| 24 | CP2 | 31 | -46 |
| 25 | FC5 | -69 | -21 |
| 26 | FC6 | 69 | 21 |
| 27 | CP5 | -69 | 21 |
| 28 | CP6 | 69 | -21 |
| 29 | FT9 | -113 | -18 |
| 30 | FT10 | 113 | 18 |
| 31 | TP9 | -113 | 18 |
| 32 | TP10 | 113 | -18 |
| 33 | F1 | -49 | -68 |
| 34 | F2 | 49 | 68 |
| 35 | C1 | -23 | 0 |
| 36 | C2 | 23 | 0 |
| 37 | P1 | -49 | 68 |
| 38 | P2 | 49 | -68 |
| 39 | AF3 | -74 | -68 |
| 40 | AF4 | 74 | 68 |
| 41 | FC3 | -49 | -29 |
| 42 | FC4 | 49 | 29 |
| 43 | CP3 | -49 | 29 |
| 44 | CP4 | 49 | -29 |
| 45 | PO3 | -74 | 68 |
| 46 | PO4 | 74 | -68 |
| 47 | F5 | -74 | -41 |
| 48 | F6 | 74 | 41 |
| 49 | C5 | -68 | 0 |

| Channel-number | Name | Theta | Phi |
|----------------|--------|-------|-----|
| 50 | C6 | 68 | 0 |
| 51 | P5 | -74 | 41 |
| 52 | P6 | 74 | -41 |
| 53 | AF7 | -90 | -54 |
| 54 | AF8 | 90 | 54 |
| 55 | FT7 | -90 | -18 |
| 56 | FT8 | 90 | 18 |
| 57 | TP7 | -90 | 18 |
| 58 | TP8 | 90 | -18 |
| 59 | PO7 | -90 | 54 |
| 60 | PO8 | 90 | -54 |
| 61 | Fpz | 90 | 90 |
| 62 | CPz | 22 | -90 |
| 63 | POz | 67 | -90 |
| 64 | Oz | 90 | -90 |
| 65 | FFC1h | -35 | -73 |
| 66 | FFC2h | 35 | 73 |
| 67 | CCP1h | -16 | 45 |
| 68 | CCP2h | 16 | -45 |
| 69 | AFF1h | -57 | -82 |
| 70 | AFF2h | 57 | 82 |
| 71 | PPO1h | -57 | 82 |
| 72 | PPO2h | 57 | -82 |
| 73 | FCC3h | -35 | -19 |
| 74 | FCC4h | 35 | 19 |
| 75 | CPP3h | -46 | 48 |
| 76 | CPP4h | 46 | -48 |
| 77 | FFC5h | -62 | -35 |
| 78 | FFC6h | 62 | 35 |
| 79 | CCP5h | -57 | 12 |
| 80 | CCP6h | 57 | -12 |
| 81 | FTT7h | -79 | -10 |
| 82 | FTT8h | 79 | 10 |
| 83 | TPP7h | -81 | 29 |
| 84 | TPP8h | 81 | -29 |
| 85 | PPO9h | -101 | 45 |
| 86 | PPO10h | 101 | -45 |
| 87 | OI1h | -101 | 81 |
| 88 | OI2h | 101 | -81 |
| 89 | F9 | -113 | -36 |
| 90 | F10 | 113 | 36 |
| 91 | P9 | -113 | 36 |
| 92 | P10 | 113 | -36 |
| 93 | PO9 | -113 | 54 |
| 94 | PO10 | 113 | -54 |
| 95 | O9 | -112 | 72 |
| 96 | O10 | 112 | -72 |
| 97 | FCC1h | -16 | -45 |
| 98 | FCC2h | 16 | 45 |

| | | | |
|------------|------------|------|-----|
| 99 | CPP1h | -35 | 73 |
| 100 | CPP2h | 35 | -73 |
| 101 | FFC3h | -46 | -48 |
| 102 | FFC4h | 46 | 48 |
| 103 | CCP3h | -35 | 19 |
| 104 | CCP4h | 35 | -19 |
| 105 | AFp1 | -79 | -82 |
| 106 | AFp2 | 79 | 82 |
| 107 | POO1 | -79 | 82 |
| 108 | POO2 | 79 | -82 |
| 109 | AFF5h | -72 | -55 |
| 110 | AFF6h | 72 | 55 |
| 111 | FCC5h | -57 | -12 |
| 112 | FCC6h | 57 | 12 |
| 113 | CPP5h | -62 | 35 |
| 114 | CPP6h | 62 | -35 |
| 115 | PPO5h | -72 | 55 |
| 116 | PPO6h | 72 | -55 |
| 117 | FFT7h | -81 | -29 |
| 118 | FFT8h | 81 | 29 |
| 119 | TTP7h | -79 | 10 |
| 120 | TTP8h | 79 | -10 |
| 121 | FFT9h | -101 | -27 |
| 122 | FFT10h | 101 | 27 |
| 123 | TPP9h | -101 | 27 |
| 124 | TPP10h | 101 | -27 |
| 125 | POO9h | -101 | 63 |
| 126 | POO10h | 101 | -63 |
| 127 | lz | 112 | -90 |
| Gnd | Afz | 67 | 90 |
| Ref | FCz | 23 | 90 |

These values are standardized to a Theta of 90° for the plane through Fpz, T7, T8, Oz.

The signs follow this convention:

