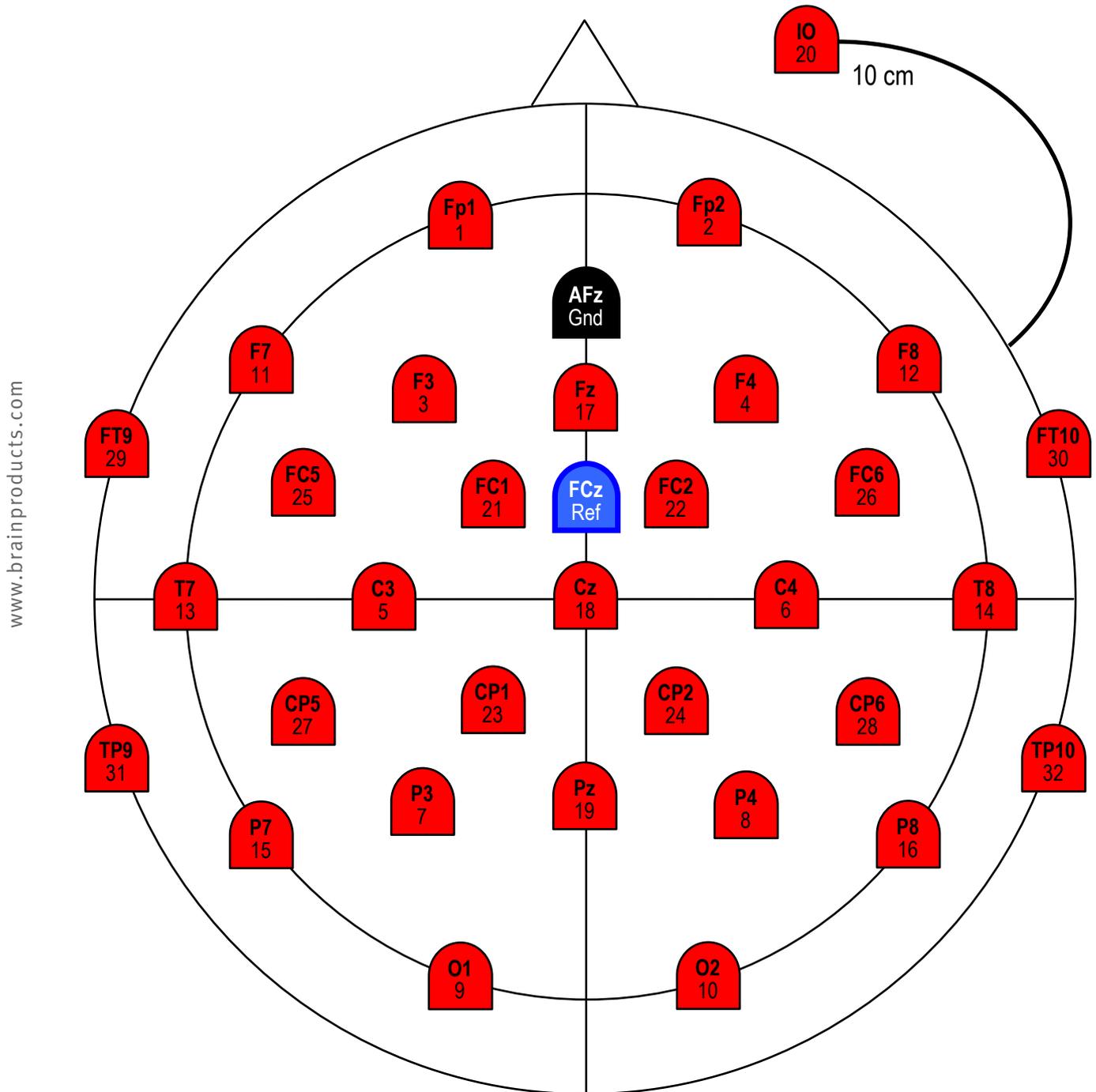


**BrainCap with Multitrodes 32Ch Standard Layout**

Electrode Layout and Channel Assignment

(Layout equal to former "BrainCap Fast'n Easy 32Ch, Standard Layout")



## Details for Users

### Ordering Information

Catalogue-Number: BC32-# (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: 50 (5 years), 52 (7 years), 54 (11 years)
- Infant caps: 36 (newborn), 38, 40 (3 months), 42, 44 (7 month), 46, 48 (3 years)

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

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 your 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. Two cable trees leave the cap plait-like behind the ears, pointing downwards, and meet at the connector-box. The length of cable trees is approx. 120 cm.

### Termination

Each cable tree is led into a Connector box. From here the caps are connected to BrainAmp with 30 cm-flatribbon-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 (channels 1 to 32)

| 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         | ?? 130 | ?? 80 |
| 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   |
| <b>Gnd</b>     | <b>Afz</b> | 67     | 90    |
| <b>Ref</b>     | <b>FCz</b> | 23     | 90    |

www.brainproducts.com

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

The signs follow this convention:

