



# EASYCAP

EEG Recording Caps and Related Products

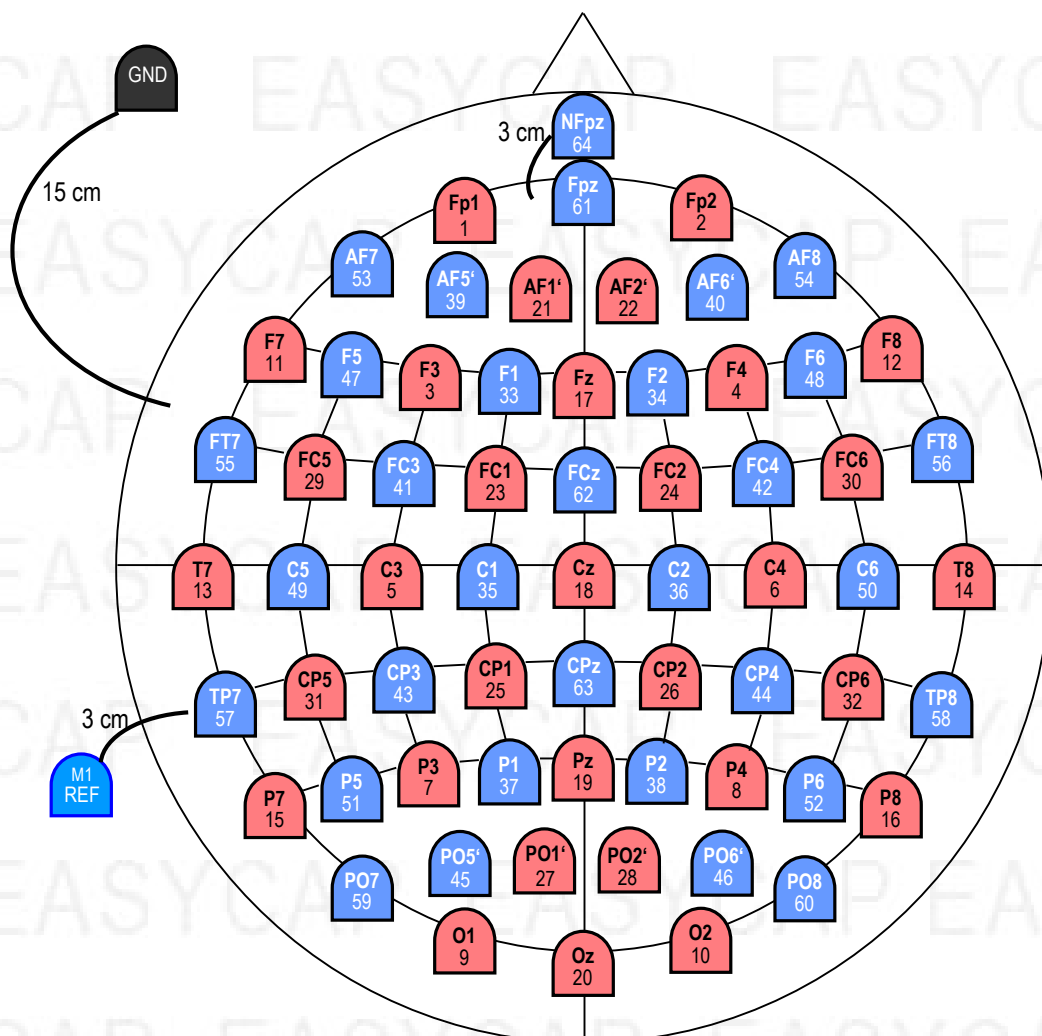
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## 64Ch BrainCap with Multitrodes

customized for M. Philiastides, Nottingham, Nov 2014

### Electrode Layout and Channel Assignment:



## Details for Users

### Ordering Information

For ordering please give **Article Number, Cap Cut, and Size** (e.g. *BC-64-X28, Caucasian, 56*):

- Article Number: *BC-64-X28*
- Cap Cut: *Caucasian* or *Asian*
- Size (given in cm head circumference):  
Adult caps: *54, 56, 58, 60, 62, 64* (average male: 58, average female: 54)  
Children caps: *50* (5 years), *52* (7 years), *54* (11 years)  
Infant caps: *42, 44* (7 month), *46, 48* (3 years)

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

Standard: White Subtemporal Cap with integrated chin belt

Sizes 52 – 64 made from High Precision Fabric, Sizes 50 and smaller made from High Comfort Fabric

Options: *Caucasian* or *Asian*, *Size*

### 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 name-labelled (Fp1, Fp2, ...) near sensor.

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. 20 cm before the connector boxes there is a crossing point. Lengths of cable trees are approx. 50 cm.

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.

## Theta / Phi Coordinates for BC-64-X28

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	Oz	90	-90
21	AF1'	-69	-81
22	AF2'	69	81
23	FC1	-31	-46
24	FC2	31	46
25	CP1	-31	46
26	CP2	31	-46
27	PO1'	-69	81
28	PO2'	69	-81
29	FC5	-69	-21
30	FC6	69	21
31	CP5	-69	21
32	CP6	69	-21
REF	M1	(-121)	(18)

Channel-Number	Name	Theta	Phi
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	AF5'	-76	-65
40	AF6'	76	65
41	FC3	-49	-29
42	FC4	49	29
43	CP3	-49	29
44	CP4	49	-29
45	PO5'	-76	65
46	PO6'	76	-65
47	F5	-74	-41
48	F6	74	41
49	C5	-68	0
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	FCz	23	90
63	CPz	22	-90
64	NFpz	101	90
GND	-	-	-

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

The signs follow this convention:

