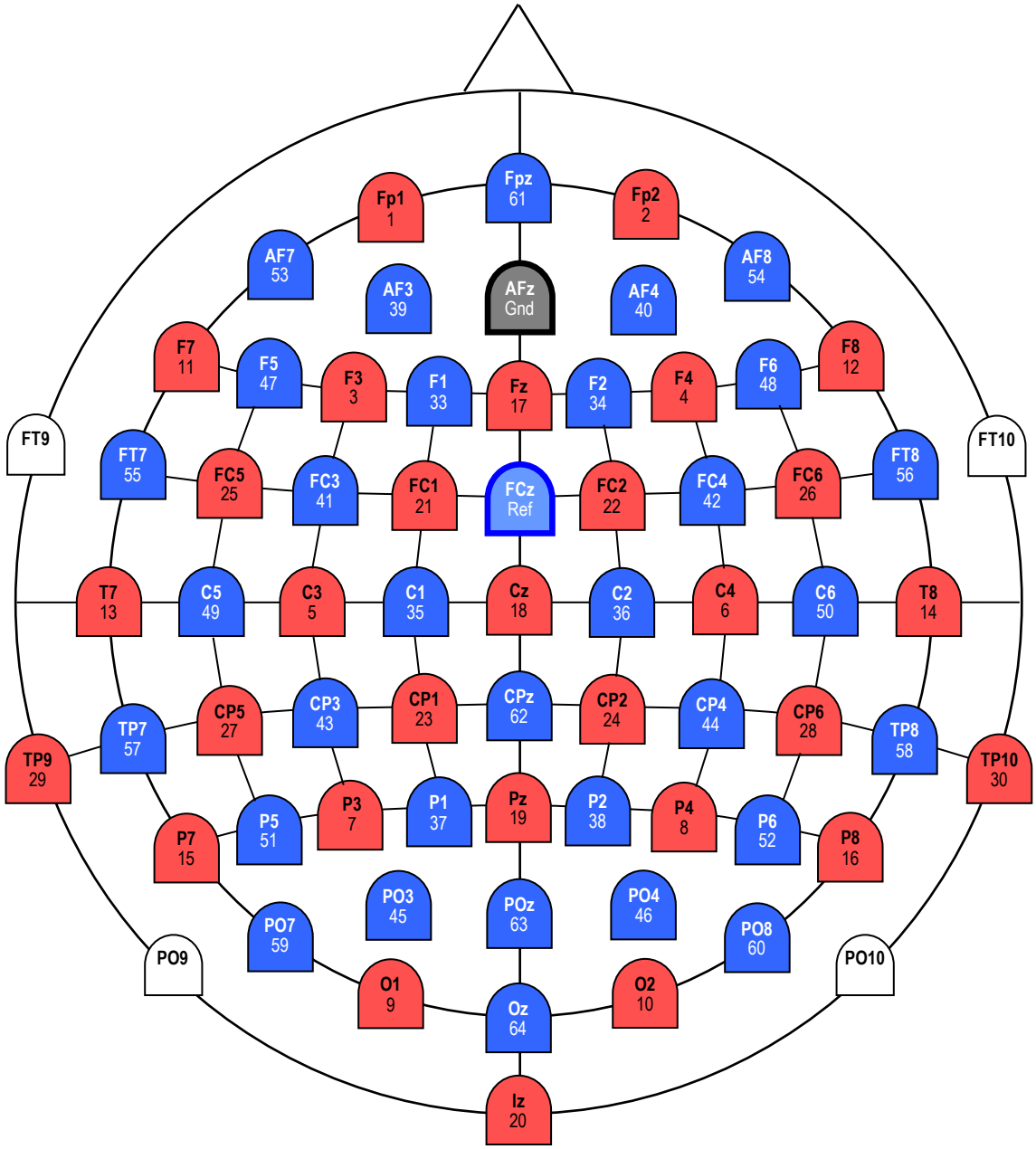
BC-TMS-64 - 64Ch-Standard-BrainCap for TMS

Without electrode input board

Electrode Layout and Channel Assignment



Easycap GmbH Am Anger 5, 82237 Wörthsee, Germany www.easycap.de support@easycap.de

Details

Ordering Information

For ordering please give **Layout Name, Cap Cut,** and **Size** *(Example: BC-TMS-64-X7-64, C-Cut, 58):*

- Layout Name: ***BC-TMS-64-X7***
- Cap Cut: ***C-Cut*** or ***A-Cut***
- Size (given in cm head circumference):
  Adult caps: ***54***, ***56***, ***58***, ***60***, ***62***, ***64*** (average male: 58, average female: 56)
  Children caps: ***50*** (3-4 years), ***52*** (5-10 years), ***54*** (11-14 years)
  Infant caps: ***42***, ***44*** (7 month), ***46***, ***48*** (2 years)

The catalogue-number comprises the cap with as described plus 2 additional spare electrodes. For further information on 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: C-Cut or A-Cut, Size. For further variations, contact us.

Electrodes

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

All electrodes are:

- Name-labelled at sensor and number-labelled at connector (spare electrodes labelled as 31, 32).
- The electrode wires are very loosely attached to cap with velcro straps that can be opened
- The cables leave the cap plait-like before and behind the ears. Cable trees are held together with only a few velcro straps that can be opened. Length of cable trees (from cap rim to connectors) is approx. 120 cm.

Hints when performing TMS and EEG simultaneously

Unused electrodes can be buttoned out of the cap, and their connections can be removed from the EIB.

To minimize the TMS artefacts onto the EEG signal, electrode cables should be led away from the TMS stimulation point. To be able to do so, the electrode cables are not attached to the cap and can be rotated 360° in their cap holes. You may secure a certain cable geometry with the enclosed cable clips and velcro straps.

Depending on the site of the TMS stimulation, it may be advisable to move the REF electrode away from the stimulation point to another position further away.

Cap Layout download

The QR code and link below take you to the download section of our website, where you can search for and download this cap layout document including Theta/Phi coordinates:
https://easycap.de/cap-layout-download/

Table of Coordinates for BC-TMS-X7

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	Iz	112	-90
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	TP9	-113	18
30	TP10	113	-18
31	31	NN	NN
32	32	NN	NN
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
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
	FT9	-113	-18
	FT10	113	18
	PO9	-113	54
	PO10	113	-54
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:

