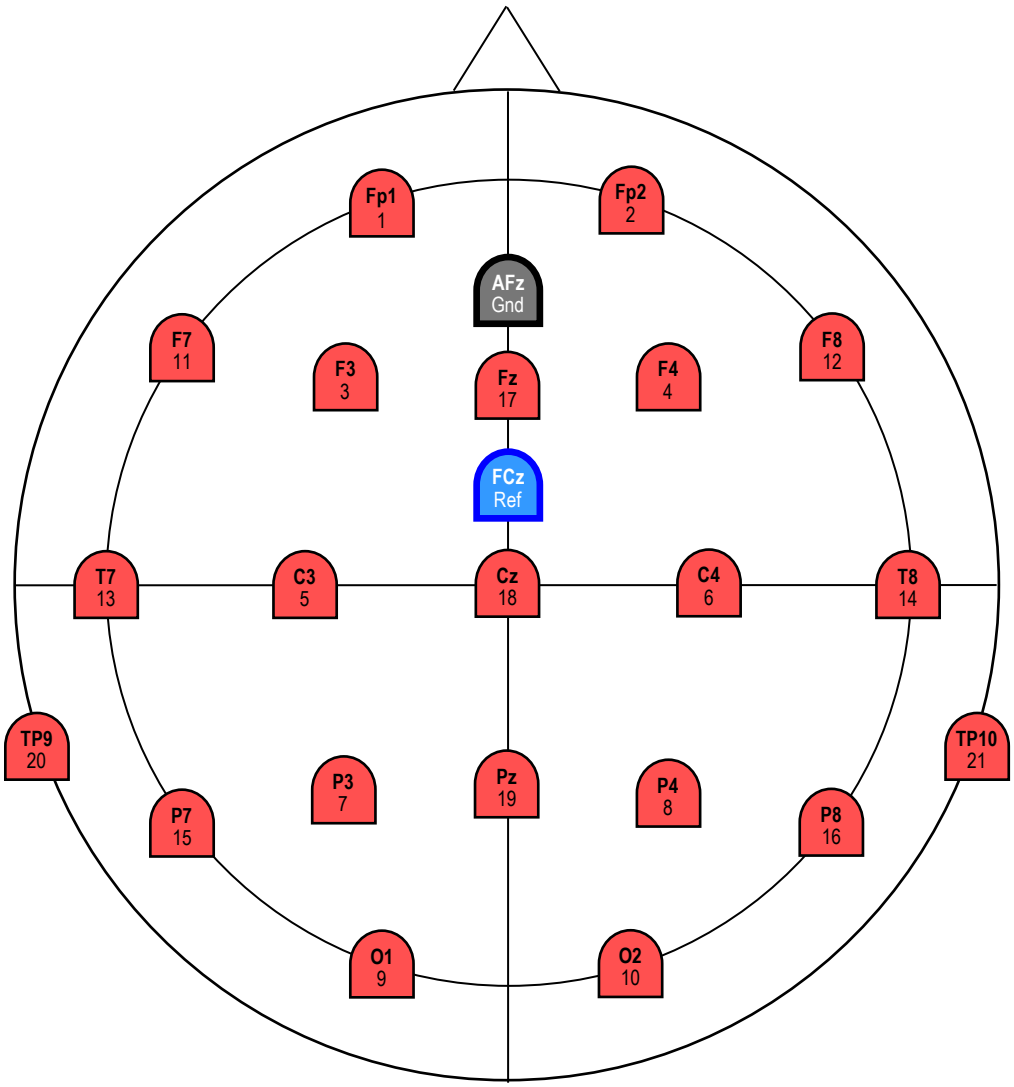
BC-TMS-X1 - 21Ch-Standard-BrainCap for TMS with Multitrodes

Standard layout with safety sockets, no 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** (e.g. *BC-TMS-21-X1, C-Cut, 56*):

- Layout Name: ***BC-TMS-21-X1***
- 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: 34, *36 (newborn), 38, 40 (3 months), 42*, *44* (7 month), *46*, *48* (2 years)

The catalogue-number comprises the cap with 21 + 2 built-in but removable electrodes, and two spare electrodes. For further information on accessories or consumables, please visit our website or contact our local distributor.

Cap

Standard: Subtemporal Cap with integrated chin belt, white.
Sizes 52 – 60 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 near sensor and number-labelled near safety socket according to the figure
- The electrode wires are very loosely attached to the cap with velcro straps that can be opened. Thus each electrode can be rotated 360°.
- The cables leave the cap plait-like behind the ears. Cable trees are held together with only a few velcro straps that can be opened. Length of cable trees 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-21-X1

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	TP9	-113	18
21	TP10	113	-18
Ref	FCz	23	90
Gnd	AFz	67	90

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

The signs follow this convention:

