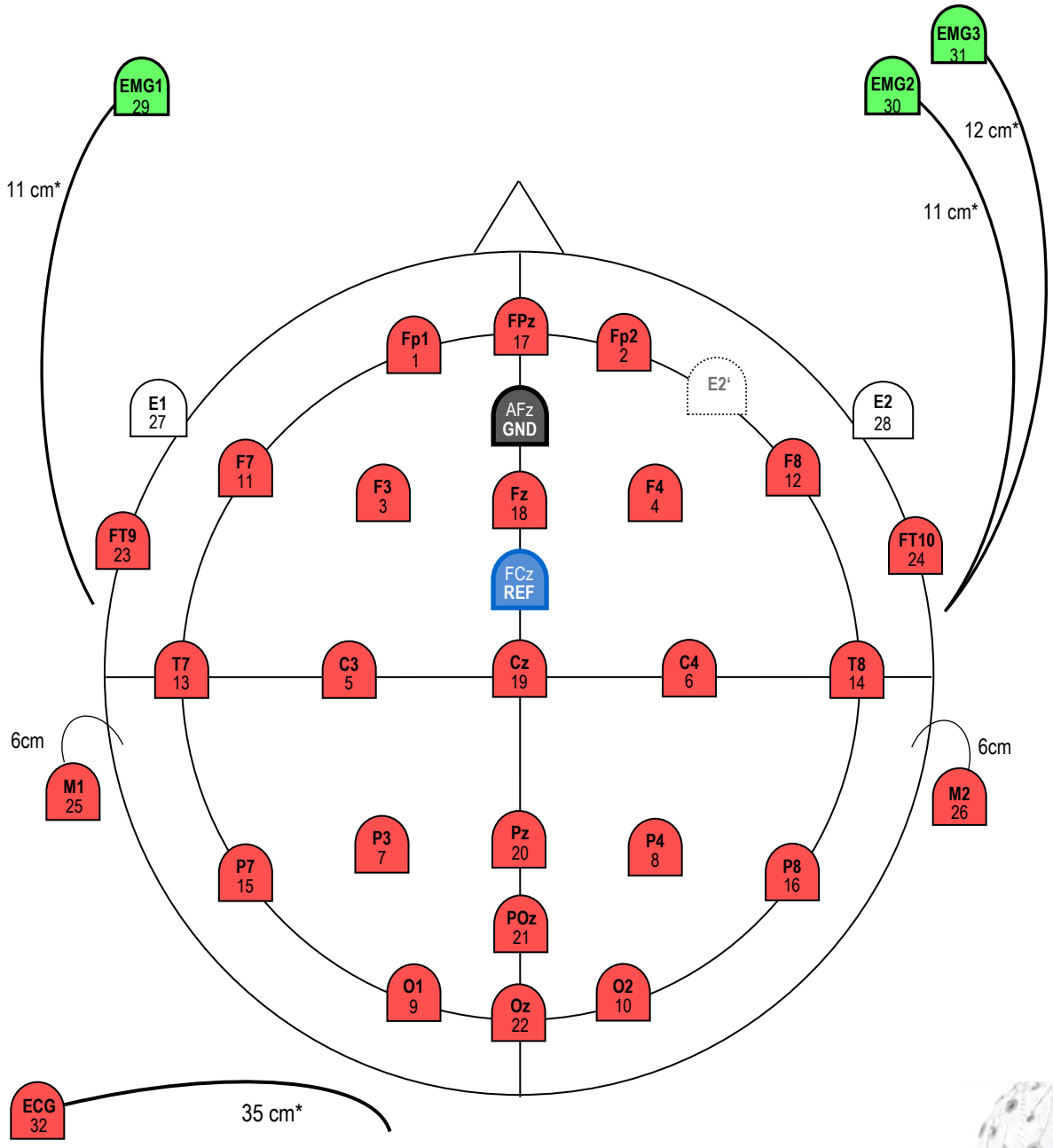
BC-SL-32-X11 - 32Ch Standard BrainCap for Sleep Recordings

Layout in accordance with "AASM manual for the Scoring of Sleep", cap with safety sockets, no input board

Electrode Layout and Channel Assignment



FCz offers a reliable position for online recording reference.
For mastoid reference we suggest to reference the data *offline* to M2 as recommended in AASM.
For EOG, please reference the "E1" and "E2" channel offline to Fpz, for EOG left/right, as indicated →

*Drop-down lengths will be adjusted for smaller children sizes



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-SL-32-X11, C-Cut, 56*):

- Layout Name: ***BC-SL-32-X11***
- 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 as described. For further information about accessories or consumables, please visit our website or contact our local distributor.

Cap

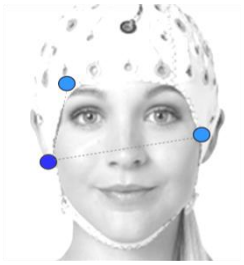
Standard: Subinion Cap with integrated chin belt, **black**
All Sizes made from High Comfort Fabric
Options: C-Cut or A-Cut, Size. For further variations, contact us.

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 at the sensor and number-labelled at the socket end.
The cable colours correspond to the above figure.

Mastoid positions in the cap are approximated with TP9' / TP10' , 1cm below TP9 / TP10.
EOG positions E1 / E2 in the cap are approximated with F9' / F10' , bilateral at the lower outer canthus of the eyes.



EOG: For alternative EOG recording against right mastoid M2,
please move the E2 electrode from position F10', close to the cap rim, to position E2' (AF8'), located ABOVE the right eye. Then please reference your two EOG channels offline to the right mastoid, M2. This will result the EOG recording situation as also recommended in AASM.

Both alternative positions for recording of the EOG are integrated with openings in the cap for ease of application and better signal quality.

The cables are attached to the cap with nylon threads. Two cable trees leave the cap plait-like behind the ears, pointing downwards. Cables are kept flat to the cap for better comfort. Cable trees are covered in soft fabric for better comfort. The length of cable trees is approx. 120 cm

Termination

Cables end with name-labelled 1.5mm safety sockets.

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-SL-32-X11

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	FPz	90	90
18	Fz	45	90
19	Cz	0	0
20	Pz	45	-90
21	POz	67	-90
22	Oz	90	-90
23	FT9	-113	-18
24	FT10	113	18
25	M1	-121	18
26	M2	121	18
27	**E1** (F9')	-121	-30
28	**E2'** (F10')	121	30
	E2‘ (AF8‘)	105	54
29	EMG1	-	-
30	EMG2	-	-
31	EMG3	-	-
32	ECG	-	-
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:

