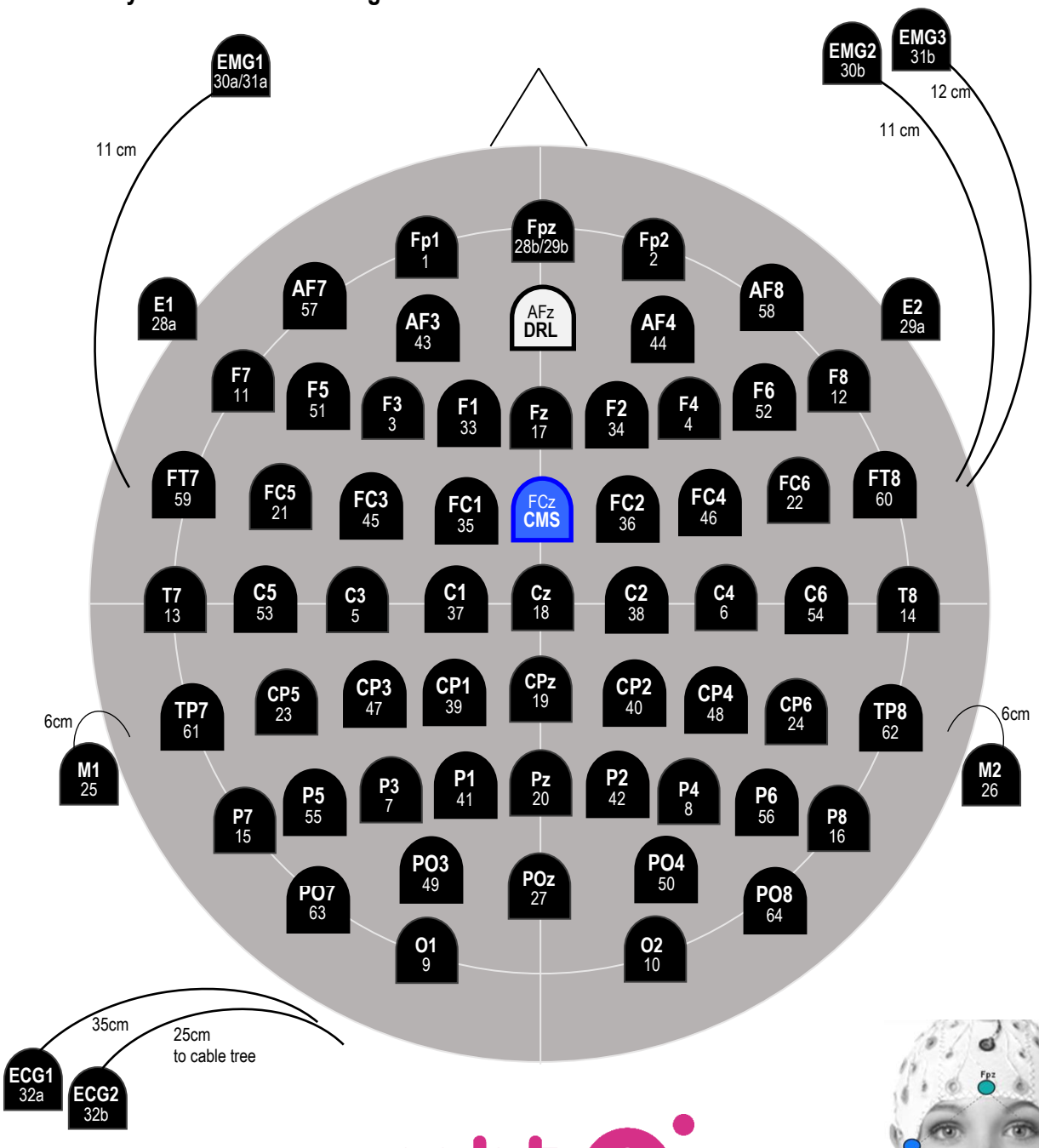
PROX-64-SL - 64Ch Standard PRO Cap for Sleep with Multitrodes

For Smarting PRO Amplifier, with 59 unipolar and 5 bipolar channels (2xEOG, 2xEMG, 1xECG)

Electrode Layout and Channel Assignment





PROX-SL-64.docx

Details

For ordering please give **Article Number**, **Cap Cut**, and **Size** (e.g. *PROX-SL-64, C-Cut, 58*):

- Article Number: ***PROX-SL-64***
- 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: 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. For further information about accessories or consumables please visit our website or contact our local distributor.

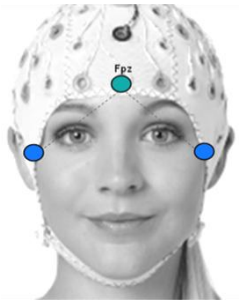
Cap

Standard: Subinion Cap with integrated chin belt, Black, High Comfort Fabric
Options: C-Cut or A-Cut, Size

Electrodes

All electrodes are Multitrodes with sintered Ag/AgCl sensors. They are buttoned directly into the cap (total height 3,5 mm).

All electrodes are number-labelled at the sensor end. Cables are kept flat to the cap for better comfort.
Mastoid positions in the cap are approximated with TP9' / TP10', 1cm below TP9 / TP10.
These sensors can also be removed and positioned individually on the mastoids,
for better signal quality and more stable recordings along the night.



Please note: FCz offers a reliable position for online recording reference.
For mastoid reference, we suggest to reference data *offline* to M1/M2 as recommended in AASM.
EOG, EMG and ECG are recorded as bipolar channel inputs.
EOG channels "E1" and "E2" are referenced to FCz for diagonal EOG left/right, as indicated →
For additional horizontal EOG, please reference "E1" to "E2" offline.

The cables leave the cap plait like at the back, and continue as a cable tree to the common connector, which is best kept at the chest.

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/

Theta/Phi-Coordinates

Please also find a table with Theta/Phi-Coordinates of all electrode sites at the end of this file.

Table of Coordinates for PROX-SL-64

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	CPz	22	-90
20	Pz	45	-90
21	FC5	-69	-21
22	FC6	69	21
23	CP5	-69	21
24	CP6	69	-21
25	M1	-121	18
26	M2	121	-18
27	POz	67	-90
28 bip	E1 /Fpz	(-121)	(-30)
29 bip	E2 /Fpz	(121)	(30)
30 bip	EMG1 /EMG2	-	
31 bip	EMG1 /EMG3	-	--
32 bip	ECG1 /ECG2	-	-
DRL	Afz	67	90
CMS	FCz	23	90

Channel-number	Name	Theta	Phi
33	F1	-49	-68
34	F2	49	68
35	FC1	-31	-46
36	FC2	31	46
37	C1	-23	0
38	C2	23	0
39	CP1	-31	46
40	CP2	31	-46
41	P1	-49	68
42	P2	49	-68
43	AF3	-74	-68
44	AF4	74	68
45	FC3	-49	-29
46	FC4	49	29
47	CP3	-49	29
48	CP4	49	-29
49	PO3	-74	68
50	PO4	74	-68
51	F5	-74	-41
52	F6	74	41
53	C5	-68	0
54	C6	68	0
55	P5	-74	41
56	P6	74	-41
57	AF7	-90	-54
58	AF8	90	54
59	FT7	-90	-18
60	FT8	90	18
61	TP7	-90	18
62	TP8	90	-18
63	PO7	-90	54
64	PO8	90	-54

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

The signs follow this convention:

