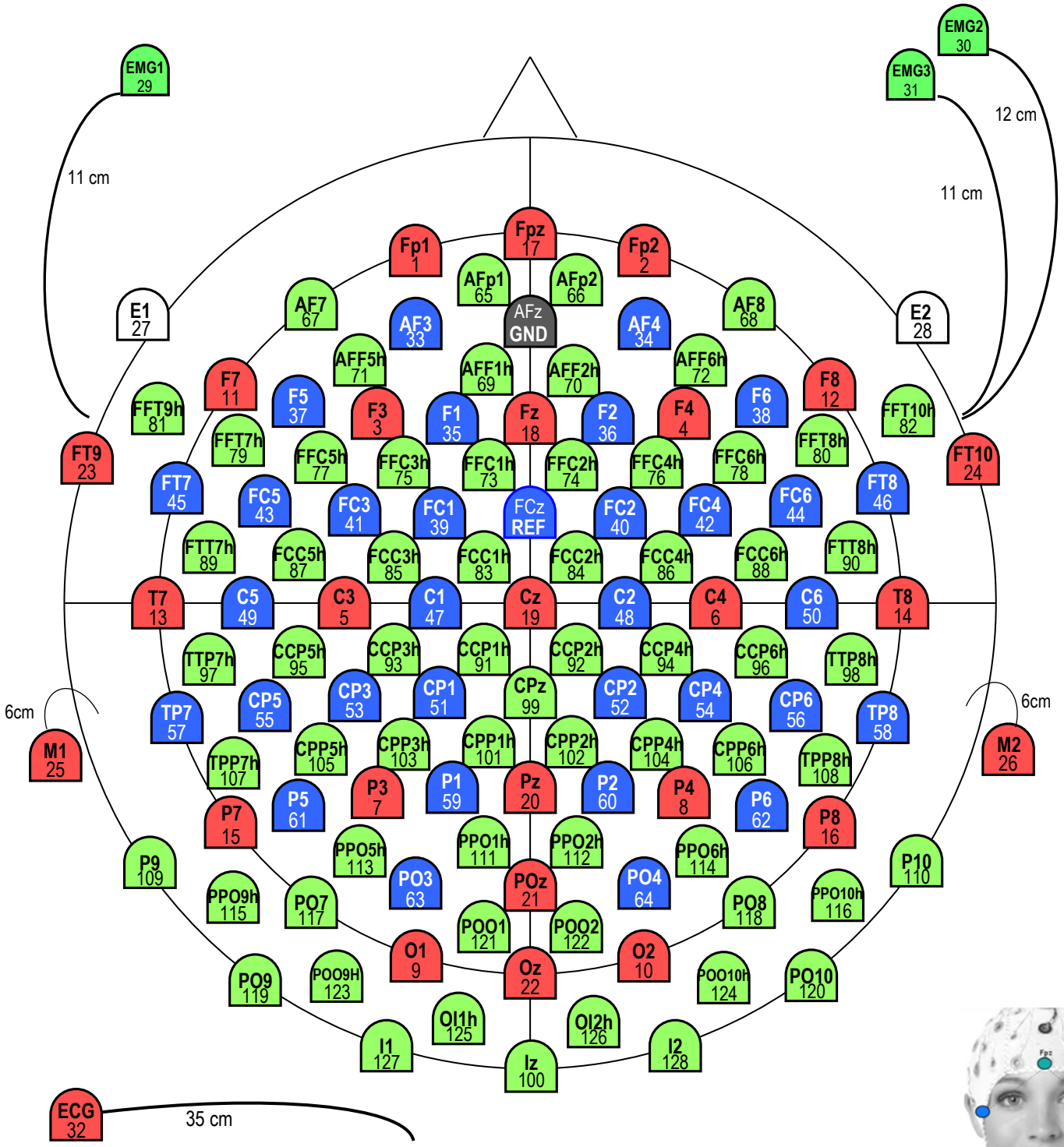
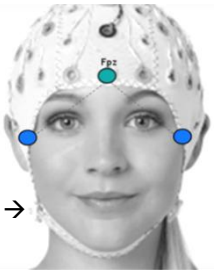
BC-SL-128 - 128Ch Standard BrainCap for Sleep Recordings

Layout in accordance with "AASM manual for the Scoring of Sleep"

Electrode Layout and Channel Assignment



For EOG, please reference "E1" and "E2" offline to Fpz, as indicated →



BC-SL-128.docx

Details

Ordering Information

For ordering please give **Layout Name, Cap Cut, and Size** *(e.g. BC-SL-128, C-Cut, 56)*

- Layout Name: ***BC-SL-128***
- 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: ***52*** (5-10 years), ***54*** (11-14 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
Sizes 52 – 64 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).

Mastoid positions M1/M2 in the cap are approximated at positions TP9' / TP10' , 1cm below TP9 / TP10.
For mastoid reference we suggest referencing the data *offline* to M1/M2 as recommended.

The EOG electrodes are integrated in the cap for ease of application and better signal quality.

The cables are attached to the cap with nylon threads, however Mastoid or EOG electrodes can also be positioned individually on skin.
Four cable trees leave the cap plait-like, pointing downwards. 20 cm before the connector-boxes there is a crossing-point. 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

Each cable tree is led into a BrainCap-Box. From here the caps are connected to BrainAmp with flat-ribbon-cables. They can be re-ordered from BrainProducts (Cat-No. BP-02400-NN) or from Easycap (Cat.-No. E80).

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-128

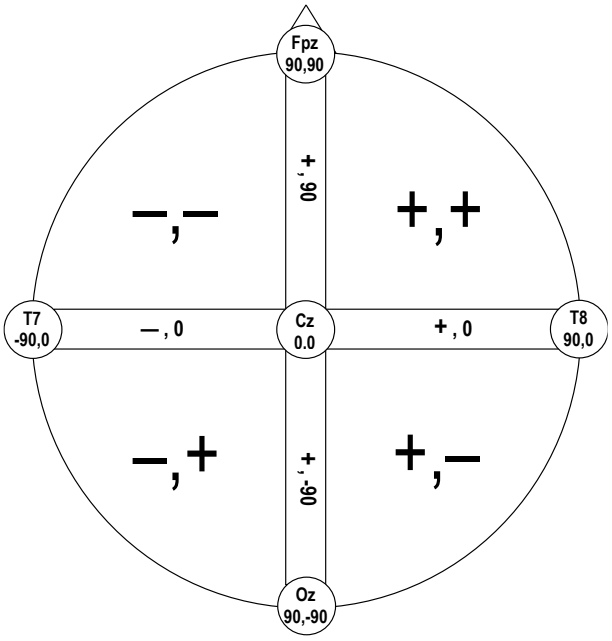
Channel-number	Name	Theta	Phi
1	Fp1	-90	-72
2	Fp2	90	72
3	F3	-60	-51
4	F4	60	51
5	C3	-45	0
6	C4	45	0
7	P3	-60	51
8	P4	60	-51
9	O1	-90	72
10	O2	90	-72
11	F7	-90	-36
12	F8	90	36
13	T7	-90	0
14	T8	90	0
15	P7	-90	36
16	P8	90	-36
17	Fpz	90	90
18	Fz	45	90
19	Cz	0	0
20	Pz	45	-90
21	POz	67	-90
22	Oz	90	-90
23	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
29	EMG1	-	-
30	EMG2	-	-
31	EMG3	-	-
32	ECG	-	-
33	AF3	-74	-68
34	AF4	74	68
35	F1	-49	-68
36	F2	49	68
37	F5	-74	-41
38	F6	74	41
39	FC1	-31	-46
40	FC2	31	46
41	FC3	-49	-29
42	FC4	49	29
43	FC5	-69	-21
44	FC6	69	21
45	FT7	-90	-18
46	FT8	90	18
47	C1	-23	0
48	C2	23	0
49	C5	-68	0

Channel-number	Name	Theta	Phi
50	C6	68	0
51	CP1	-31	46
52	CP2	31	-46
53	CP3	-49	29
54	CP4	49	-29
55	CP5	-69	21
56	CP6	69	-21
57	TP7	-90	18
58	TP8	90	-18
59	P1	-49	68
60	P2	49	-68
61	P5	-74	41
62	P6	74	-41
63	PO3	-74	68
64	PO4	74	-68
65	AFp1	-79	-82
66	AFp2	79	82
67	AF7	-90	-54
68	AF8	90	54
69	AFF1h	-57	-82
70	AFF2h	57	82
71	AFF5h	-72	-55
72	AFF6h	72	55
73	FFC1h	-35	-73
74	FFC2h	35	73
75	FFC3h	-46	-48
76	FFC4h	46	48
77	FFC5h	-62	-35
78	FFC6h	62	35
79	FFT7h	-81	-29
80	FFT8h	81	29
81	FFT9h	-101	-27
82	FFT10h	101	27
83	FCC1h	-16	-45
84	FCC2h	16	45
85	FCC3h	-35	-19
86	FCC4h	35	19
87	FCC5h	-57	-12
88	FCC6h	57	12
89	FTT7h	-79	-10
90	FTT8h	79	10
91	CCP1h	-16	45
92	CCP2h	16	-45
93	CCP3h	-35	19
94	CCP4h	35	-19
95	CPP5h	-62	35
96	CPP6h	62	-35
97	TTP7h	-79	10
98	TTP8h	79	-10

99	**CPz**	22	-90
100	**Iz**	112	-90
101	**CPP1h**	-35	73
102	**CPP2h**	35	-73
103	**CPP3h**	-46	48
104	**CPP4h**	46	-48
105	**CCP5h**	-57	12
106	**CCP6h**	57	-12
107	**TPP7h**	-81	29
108	**TPP8h**	81	-29
109	**P9**	-113	36
110	**P10**	113	-36
111	**PPO1h**	-57	82
112	**PPO2h**	57	-82
113	**PPO5h**	-72	55
114	**PPO6h**	72	-55
115	**PPO9h**	-101	45
116	**PPO10h**	101	-45
117	**PO7**	-90	54
118	**PO8**	90	-54
119	**PO9**	-113	54
120	**PO10**	113	-54
121	**POO1**	-79	82
122	**POO2**	79	-82
123	**POO9h**	-101	63
124	**POO10h**	101	-63
125	**OI1h**	-101	81
126	**OI2h**	101	-81
127	**I1**	-112	72
128	**I2**	112	-72
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:



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 →

