

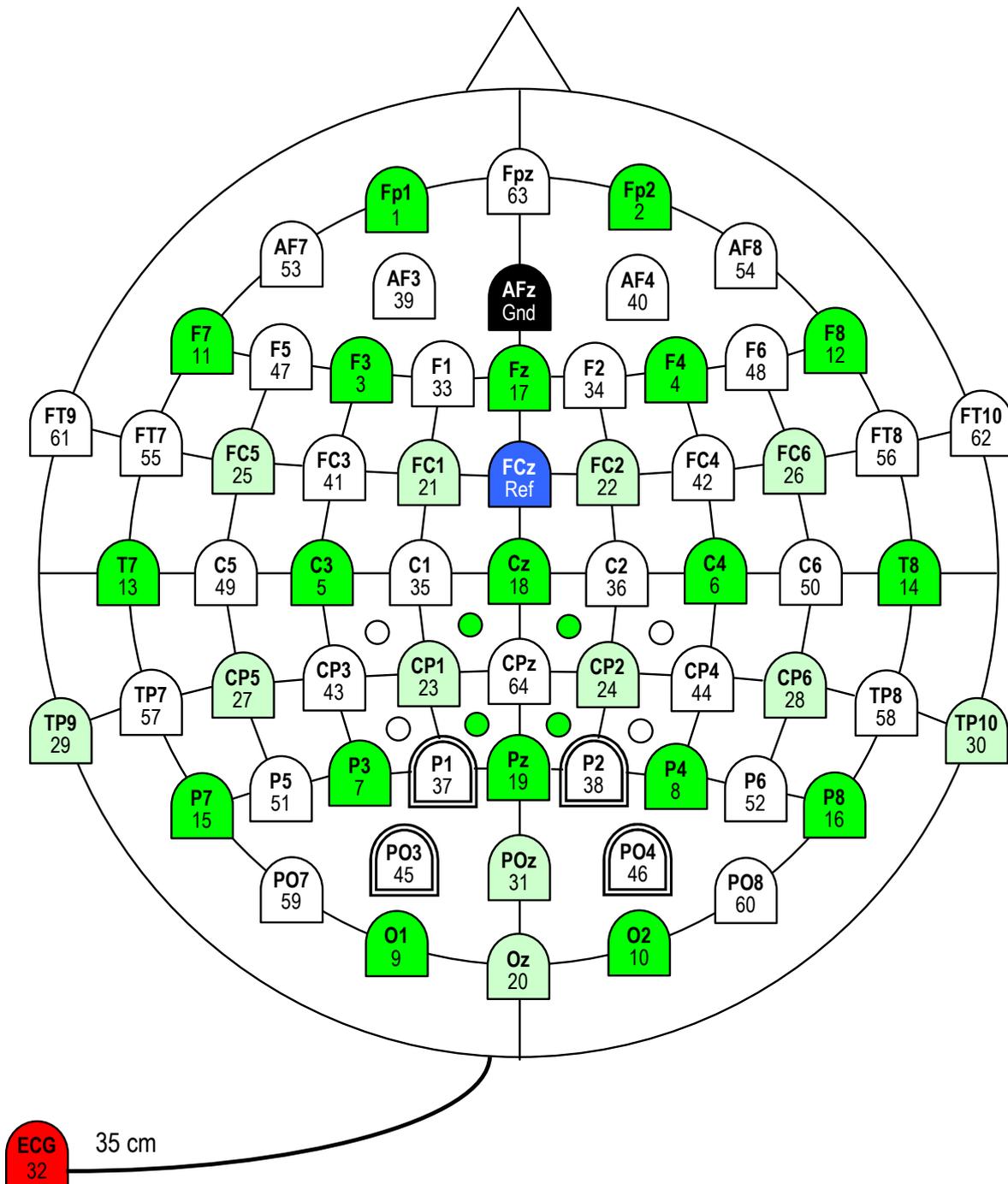
BrainCap MR 3-0 32Ch Standard
BrainCap MR 3-0 64Ch Standard

Electrode Layout and Channel Assignment:

- ○ Green: Channel 1 - 32
- White: Channel 33 - 64

All electrodes in the cap are with 5 kOhm-resistors directly after the sensor. The ECG-electrode is with 15 kOhm resistor. Inside the connector box there is another 5 kOhm-resistor on each channel, Ref, Gnd.

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Safety Rules

- **Scanner Sequences**

The BrainCap MR 3.0 can be used for combined EEG & fMRI. This means „functional“ studies, not anatomical studies. EPI sequences are allowed. MP Rage is allowed. Localizer is allowed.

All other sequences e.g. FSE, TSE, FLAIR etc. are not allowed. All sequences with more than one activation pulse or even inverted activation pulses other than so called „Single Shot EPI“ are not allowed.

- **Positioning**

No cable loops are allowed. Whenever you do recordings, all wires must never create loops or similar (e.g. meander).

Wires must never touch the subject's skin directly. If no tubes are available, place towels or similar between wire and skin. This rule applies also to the cable tree(s).

- **Amplifiers Safety**

Please never do phantom scanning with the cap connected to the amp without covering the whole phantom with electrolyte gel AND inserting gel into all electrodes. All electrodes must be shortened (electrically) to each other that way.

- **Repair**

The cap may not be altered by the customer himself. For any repair the cap must be sent to us.

- The BrainCap MR and the BrainAmp MR together constitute one system. Please also consult the chapter about safety measures in the BrainAmp MR Manual.

Beside the above any safety rules by the manufacturer of the MRI-Scanner must be followed.

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Coordinates

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	Oz	90	-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	POz	67	- 90
32	ECG		

Channel Number	Name	Theta	Phi
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	FT9	- 113	- 18
62	FT10	113	18
63	FPz	90	90
64	CPz	22	- 90