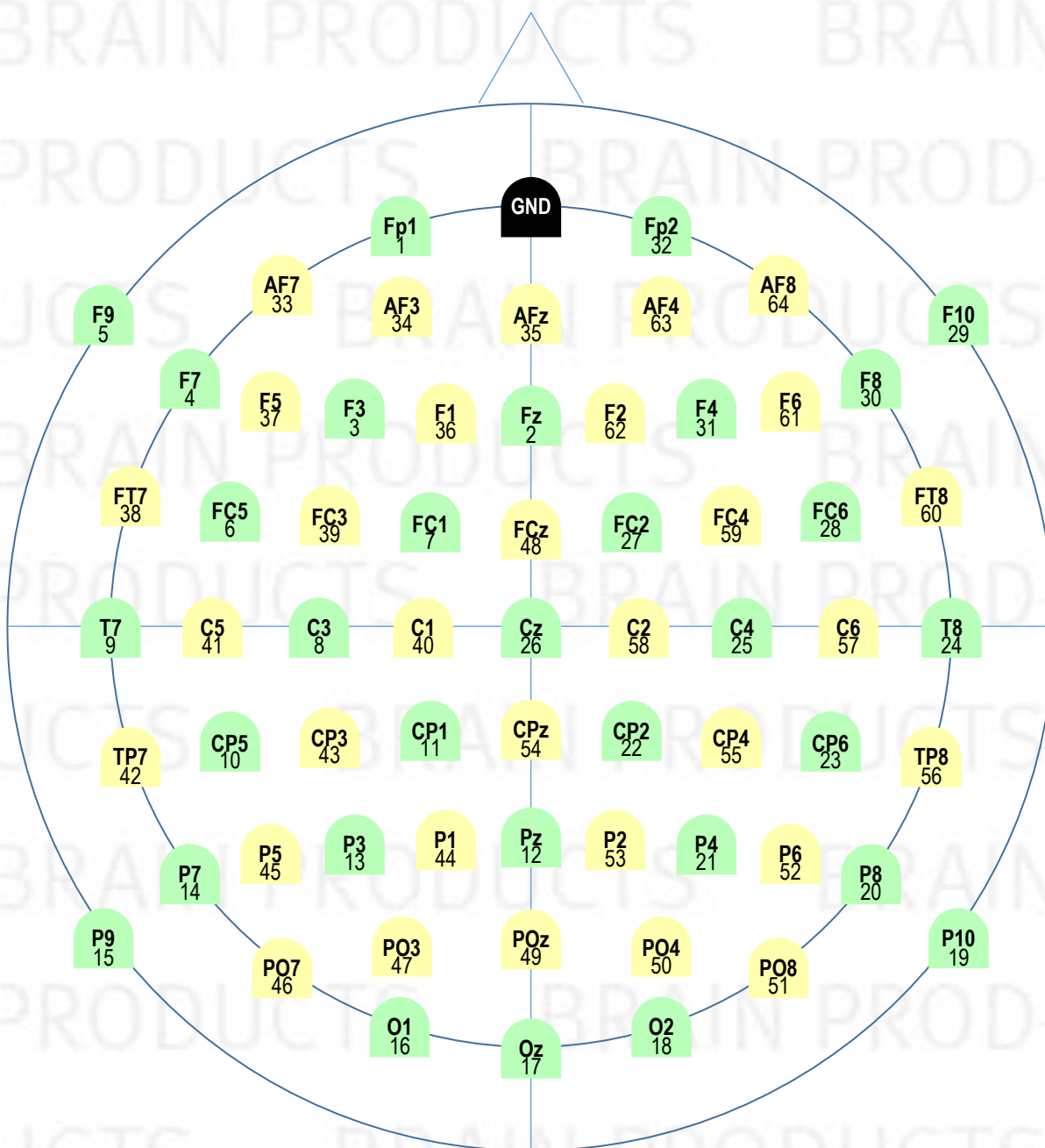


64Ch Wet-Sponge R-Net, Layout optimized for actiChamp Plus

Electrode Layout and Channel Assignment



Details for Users

Ordering Information

For ordering please give **Article Number** and **Size** (e.g. RNP-AP-64, 57):

- Article Number: **RNP-AP-64**
- Size (given in cm head circumference):

61	Adult XL
59	Adult L
57	Adult M
55	Adult S
53	Child/Adolescent L
51	Child/Adolescent M
49	Child/Adolescent S
47	Infant XXL
45	Infant XL
43	Infant L
41	Infant M
39	Infant S
37	Neonate L
35	Neonate M
33	Neonate S

The catalogue-number comprises the cap as described (without cable-set to connect to actiCHamp Plus, see below), serial number, this document; a memory-stick with manual and bvef-file, and the saltwater net accessory kit SNAK, consisting of 35 spare sponges and 5 pedestals, all packed in a labelled cardboard box. For further information about accessories or consumables, please visit our website or contact our local distributor.

Please adhere to Manual

The manual explains in detail how to prepare, mount, and adjust the cap. Maintenance, cleaning, and disinfection are covered, and what to do when repair is needed. There are several features to improve fit. Please adhere to manual.

Layout

The layout for this R-Net for actiCHamp Plus differs from R-Nets for other amplifiers because it comes without a dedicated Ref-Electrode and the electrode-site FCz is equipped with a normal electrode (Ch48).

Electrodes

The electrodes have Ag/AgCl sensors. They are number-labelled at the sensor end. The cables leave the net occipitally, pointing downwards. The length of cable tree is approx. 120 cm.

Termination and Cables to actiCHamp Plus

The cable tree is terminated into a connector box. From here the caps are connected to actiCHamp Plus with one flat-ribbon-cable per 32 channels plus one Gnd-cable. These cables are needed once per amplifier, not per net. For a first R-Net choose catalogue-number BP-130-5211 (Brain Products) / RNPA-AP-64 (Easycap) which comes **with** cables, for further nets choose BP-330-5211 / RNP-AP-64 which come **without** cables.

If further cables are needed they can be re-ordered from Brain Products or Easycap:

	Brain Products Cat-No.	Easycap Cat-No.
Gnd Cable	BP-245-1500	BP-245-1500 CABLE B4P
Flat-cable for Ch 1-32	BP-245-1100	E81-22
Flat-cable for Ch 33-64	BP-245-1110	E81-25

Table of Theta/Phi-Coordinates for RNP-AP-64

Name	Nr.	Theta	Phi
Fp1	1	-90	-72
Fz	2	45	90
F3	3	-60	-51
F7	4	-90	-36
F9	5	-113	-36
FC5	6	-69	-21
FC1	7	-31	-46
C3	8	-45	0
T7	9	-90	0
CP5	10	-69	21
CP1	11	-31	46
Pz	12	45	-90
P3	13	-60	51
P7	14	-90	36
P9	15	-113	36
O1	16	-90	72
Oz	17	90	-90
O2	18	90	-72
P10	19	113	-36
P8	20	90	-36
P4	21	60	-51
CP2	22	31	-46
CP6	23	69	-21
T8	24	90	0
C4	25	45	0
Cz	26	0	0
FC2	27	31	46
FC6	28	69	21
F10	29	113	36
F8	30	90	36
F4	31	60	51
Fp2	32	90	72
AF7	33	-90	-54
AF3	34	-74	-68
AFz	35	67	90
F1	36	-49	-68
F5	37	-74	-41
FT7	38	-90	-18
FC3	39	-49	-29
C1	40	-23	0
C5	41	-68	0
TP7	42	-90	18
CP3	43	-49	29

P1	44	-49	68
P5	45	-74	41
PO7	46	-90	54
PO3	47	-74	68
FCz	48	21	90
POz	49	67	-90
PO4	50	74	-68
PO8	51	90	-54
P6	52	74	-41
P2	53	49	-68
CPz	54	22	-90
CP4	55	49	-29
TP8	56	90	-18
C6	57	68	0
C2	58	23	0
FC4	59	49	29
FT8	60	90	18
F6	61	74	41
F2	62	49	68
AF4	63	74	68
AF8	64	90	54
Fpz	GND	90	90

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

The signs follow this convention:

