

Details for Users

Ordering Information

For ordering please give **Article Number** and **Size** (e.g. RNP-AC-128, 57):

- Article Number: **RNP-AC-128**
- 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

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 is equal to R-Nets for other amplifiers, but comes without a dedicated Ref-Electrode. Thus the electrode-site FCz stays empty.

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-130-5230 (Brain Products) / RNPA-AC-128 (Easycap) which comes **with** cables, for further nets choose BP-330-5230 / RNP-AC-128 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
Flat-cable for Ch 65-96	BP-245-1120	E81-29
Flat-cable for Ch 97-128	BP-245-1130	E81-32

Theta/Phi-Coordinates

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

Table of Coordinates for RNP-AC-128

Ch-No.	Name	Theta	Phi
1	Fp1	-90	-72
2	Fz	45	90
3	F3	-60	-51
4	F7	-90	-36
5	F9	-113	-36
6	FC5	-69	-21
7	FC1	-31	-46
8	C3	-45	0
9	T7	-90	0
10	CP5	-69	21
11	CP1	-31	46
12	Pz	45	-90
13	P3	-60	51
14	P7	-90	36
15	P9	-113	36
16	O1	-90	72
17	Oz	90	-90
18	O2	90	-72
19	P10	113	-36
20	P8	90	-36
21	P4	60	-51
22	CP2	31	-46
23	CP6	69	-21
24	T8	90	0
25	C4	45	0
26	Cz	0	0
27	FC2	31	46
28	FC6	69	21
29	F10	113	36
30	F8	90	36
31	F4	60	51
32	Fp2	90	72
33	AF7	-90	-54
34	AF3	-74	-68
35	AFz	67	90
36	F1	-49	-68
37	F5	-74	-41
38	FT7	-90	-18
39	FC3	-49	-29
40	C1	-23	0
41	C5	-68	0
42	TP7	-90	18

43	CP3	-49	29
44	P1	-49	68
45	P5	-74	41
46	PO7	-90	54
47	PO3	-74	68
48	Iz	112	-90
49	POz	67	-90
50	PO4	74	-68
51	PO8	90	-54
52	P6	74	-41
53	P2	49	-68
54	CPz	22	-90
55	CP4	49	-29
56	TP8	90	-18
57	C6	68	0
58	C2	23	0
59	FC4	49	29
60	FT8	90	18
61	F6	74	41
62	F2	49	68
63	AF4	74	68
64	AF8	90	54
65	AFF3h	-62	-67
66	FFC1h	-35	-73
67	FFC5h	-62	-35
68	FT9	-113	-18
69	FTT7h	-79	-10
70	FCC3h	-35	-19
71	CCP1h	-16	45
72	CCP5h	-57	12
73	TP9	-113	18
74	TPP7h	-81	29
75	CPP3h	-46	48
76	PPO3h	-62	67
77	PPO9h	-101	45
78	POO1	-79	82
79	PO9	-113	54
80	I1	-112	72
81	I2	112	-72
82	PO10	113	-54
83	POO2	79	-82
84	PPO10h	101	-45
85	PPO4h	62	-67
86	CPP4h	46	-48

87	TPP8h	81	-29
88	TP10	113	-18
89	CCP6h	57	-12
90	CCP2h	16	-45
91	FCC4h	35	19
92	FTT8h	79	10
93	FT10	113	18
94	FFC6h	62	35
95	FFC2h	35	73
96	AFF4h	62	67
97	AFp1	-79	-82
98	AFF1h	-57	-82
99	AFF5h	-72	-55
100	FFT7h	-81	-29
101	FFC3h	-46	-48
102	FCC1h	-16	-45
103	FCC5h	-57	-12
104	TTP7h	-79	10
105	CCP3h	-35	19
106	CPP1h	-35	73
107	CPP5h	-62	35
108	TPP9h	-101	27
109	PPO5h	-72	55
110	PPO1h	-57	82
111	POO9h	-101	63
112	OI1h	-101	81
113	OI2h	101	-81
114	POO10h	101	-63
115	PPO2h	57	-82
116	PPO6h	72	-55
117	TPP10h	101	-27
118	CPP6h	62	-35
119	CPP2h	35	-73
120	CCP4h	35	-19
121	TTP8h	79	-10
122	FCC6h	57	12
123	FCC2h	16	45
124	FFC4h	46	48
125	FFT8h	81	29
126	AFF6h	72	55
127	AFF2h	57	82
128	AFp2	79	82
Gnd	Fpz	90	90

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

The signs follow this convention:

