



# EASYCAP

EEG Recording Caps and Related Products

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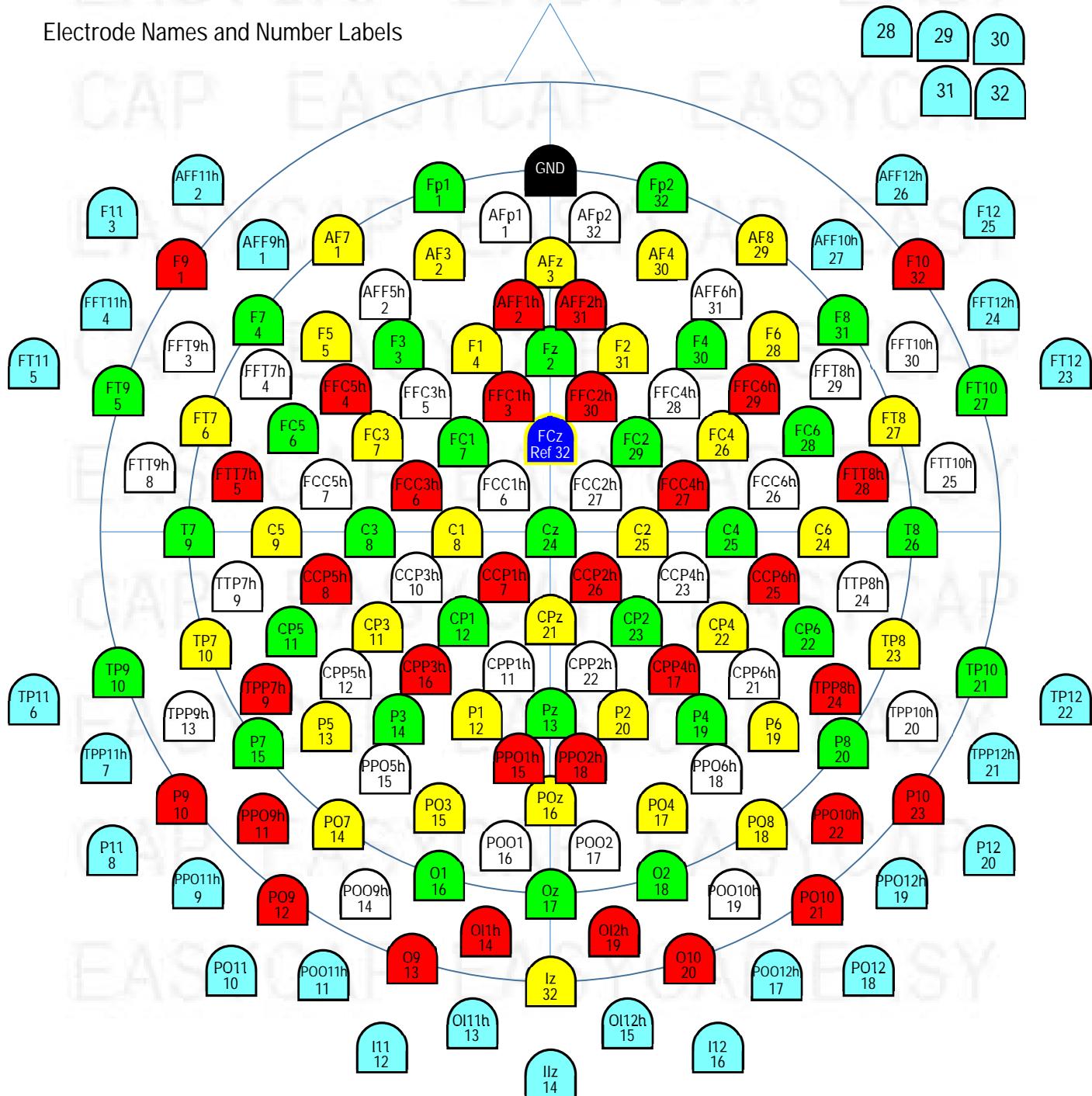
## Standard 160Ch actiCAP snap

Cap with snap holders for acticap slim electrodes

- Green Holders: Label 1-32, Hardware Channel 1 – 32
- Red Holder: Label 1-32, Hardware Channel 65 – 96
- Blue Holder: REF/Ch64 (yellow 32)

- Yellow Holders: Label 1-32, Hardware Channel 33 – 64
- White Holders: Label 1-32, Hardware Channel 97 – 128
- Blue Holders: Label 1-32, Hardware Channel 129 – 160

Electrode Names and Number Labels



## Details



### Ordering Information

For ordering please give Article Number, Cap Cut, and Size (*Example: CACS-160, C-Cut, 58*):

- Article Number: CACS-160
- Cap Cut: C-Cut or A-Cut
- Size (given in cm head circumference):  
Adult caps: 52, 54, 56, 58, 60, 62, 64 (average male: 58, average female: 56)

The catalogue-number comprises the cap with SNAP holders as described. For further information about accessories or consumables please visit our website or contact our local distributor.

### Cap

Standard: White Infracerebral Cap with integrated chin belt.

Sizes 52 – 60 made from High Precision Fabric

*Options: C-Cut or A-Cut, Size. For futher variations, contact us.*

The holders are mounted according to the figure. The positions are chosen from 5%-System<sup>1</sup>. Positions TP9/TP10 approximately meet left and right mastoids. Blue holders for the last five channels (blue 28-32) are added extra, are not in the cap.

Apart from using the cap holders, it is also possible to use some electrodes on bare skin, e.g. for recording EOG. To do so, the electrodes can be attached to the skin with double-sided adhesive rings (washers). The grip of the washer is better, when both, skin and electrode, are degreased with alcohol prior to application.

The cap can be fixed either by the integrated chin belt alone, or by a chest belt (not included), or both.

### Electrode Assignment

Plug the GND-Electrode into the black holder at Fpz.

Plug the electrodes 1-32 of the first bundle into the green holders (labelled 1-32), for amplifier channels 1-32.

Plug the electrodes 1-32 of the 2nd bundle into the yellow holders (labelled 1-32), for amplifier channels 33-64.

Plug the electrodes 1-32 of the 3rd bundle into the red holders (label 1-32), for amplifier channels 65-96.

Plug the electrodes 1-32 of the 4th bundle into the white holders (label 1-32), for amplifier channels 97-128.

Plug the electrodes 1-32 of the 5th bundle into the blue holders (label 1-32), for amplifier channels 129-160.

(The last five electrodes, channel 156-160, are not in the cap)

If your hardware requires a REF electrode (e.g. actiCAP control box), plug REF into the blue holder at FCz.

If your hardware uses NO REF electrode (e.g. actiCHamp), you can use Ch 64 (electrode 32 from 2nd bundle) to record from FCz by using the blue holder, or you can record from Iz by using the yellow 32 holder.

The velcro straps attached to the cap help you to organize and fixate the cable wires.

### Supplementary Files

Each cap comes with a memory stick containing two bvef-files, one for use with REF, one for NO\_REF. Use these bvef-files to assign the electrode names to channel numbers while creating the BrainVision Recorder Workspace. The bvef-file also contains the coordinates of the electrodes. In addition, the stick contains a bvef-readme file, a guide map to illustrate the sequence of electrode numbers, and this document.

<sup>1</sup> Electrode Nomenclature according to: Oostenveld, R. & Praamstra, P. *The five percent electrode system for high-resolution EEG and ERP measurements*. Clinical Neurophysiology 2001; 112: 713-719