



EASYCAP

EEG Recording Caps and Related Products

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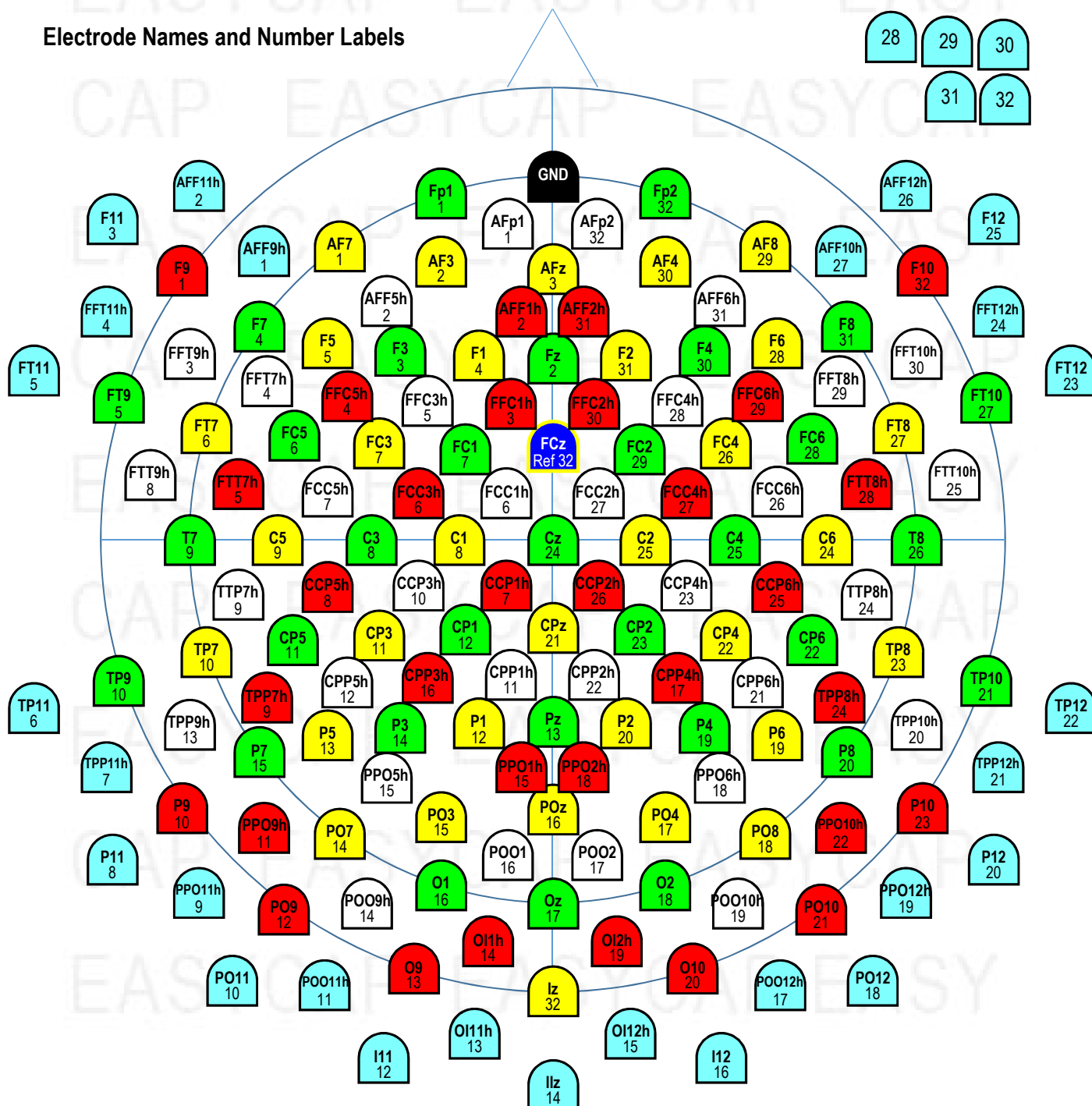
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Standard 160Ch actiCAP slim

Cap with electrodes, for use with or without reference electrode

actiCAP
slim

Electrode Names and Number Labels



Details for Users

Ordering Information

For ordering please give **Article Number, Cap Cut, and Size**
(e.g. AS-160, Caucasian, 56):

- Article Number: **AS-160**
- Cap Cut: **Caucasian** or **Asian**
- 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 160 + 2 electrodes as described, serial number, and this document; all packed in a labelled cardboard box. For further information about accessories or consumables, please visit our website or contact our local distributor.

Cap

White Infracerebral Cap with integrated chin belt, made from High Precision Fabric

Options: *Caucasian* or *Asian*, *Size*

Electrodes

Electrodes 1-32, 33-64, 65-96, 97-128 and 129-160 are actiCAP-Slim electrodes, terminating at a splitter box for connection to actiCHamp or actiCAP control box. REF and GND (160cm) come with individual connectors. All electrodes are buttoned directly into the cap or can be attached to the skin with washers (= double-sided adhesive rings).

Please note: Each 32Ch electrode set is labelled 1-32; however, the splitter boxes are numbered 1 through 5.

Please use the electrodes of splitter box 1 for channels 1-32 (green positions in the figure).

Please use the electrodes of splitter box 2 for channels 33-64 (yellow positions in the figure).

Please use the electrodes of splitter box 3 for channels 65-96 (red positions in the figure)

Please use the electrodes of splitter box 4 for channels 97-128 (white positions in the figure)

Please use the electrodes of splitter box 5 for channels 129-160 (blue positions in the figure, blue 28-32 not in cap)

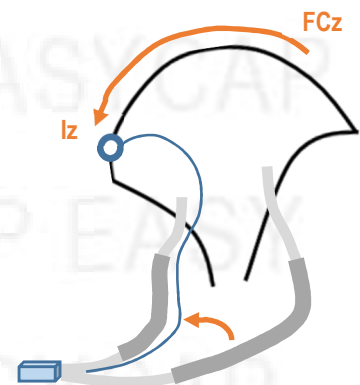
Usage WITH or WITHOUT REF-Electrode

If your hardware requires a REF electrode (e.g. actiCAP control box),

button Ref into the opening at FCz. To do so, move Ch64 (yellow 32) from FCz to Iz, and from the anterior into the posterior right cable branch. Use Or, use one of the spare electrodes, e.g. Ch 156, to plug it into Iz and adjust the workspace accordingly. (If you do this regularly, we recommend to replace the yellow 32 at Iz by the light-blue 28.)

If your hardware uses NO REF electrode (e.g. actiCHamp).

leave the REF electrode unused, and keep Ch 64 (yellow 32) at FCz.
(This is the status at delivery, with REF not in the cap.)



Hints when performing TMS and EEG simultaneously

To minimize the TMS artefacts onto the EEG signal, electrode cables should be led away from the TMS stimulation point. To be able to do so, the electrode cables are not attached to the cap and can be rotated 360° in their cap holes. You may secure a certain cable geometry with the enclosed cable clips and velcro straps.

Depending on the site of the TMS stimulation, it may be advisable to move the REF electrode away from the stimulation point to another position further away..