EPOC Flex Saline Sensor Kit

Our EPOC Flex Saline Kit combines the flexibility and density of a cap-based EEG system, with the functionality and convenience of our famous EPOC+ headset. It includes the classic saline felt sensors, with an added design element that allows re-saturation of the sensors while still in the cap.

Select your cap size at purchase and configure your sensor positions in the laboratory to suit your needs (initial set up time approximately 15-20 minutes).

Includes:

EPOC Flex Control Box

with USB charging cable
Universal USB Receiver

for wireless transmission (BTLE not supported)
EPOC Flex Cap

choose from 54cm, 56cm or 58cm
EPOC Flex Saline Sensors

34 Saline soaked felt pads

EEG support

Up to 32 channels: configurable
2 references: CMS/DRL configurable in any 10-20 location or on ears (compatible ear clips for sensors included)
Available data: raw EEG and frequency band data. Requires PRO License for use.

EEG signals

Sampling method: Sequential sampling, single ADC
Sampling rate: 1024 internal downsampled to 128 SPS.
Resolution: 14 bits with 1 LSB = 0.51µV (16 bit ADC, 2 bits instrumental noise floor discarded), compressed maximum slew rate 32uV per sample.
Bandwidth: 0.16 – 43Hz, digital notch filters at 50Hz and 60Hz
Dynamic range (input referred): 8400 µV(pp)
Coupling mode: AC coupled

EEG sensors

Electrode count: 34 recording electrodes
Sensor material: 34 Saline soaked felt pads
Size: profile height – 3.5 mm; central opening diameter – 6 mm
Wire length: 36 cm
Manufacturer: EasyCap

Cap

Available sizes: 54 cm, 56 cm, 58 cm. *Learn more* about choosing a cap size.
Openings: 72 in the standard 10-20 positions
Pockets for control box: At approximately Iz (for awake studies) and Cz (for sleep studies).
Manufacturer: EasyCap

Motion sensors*

IMU part: ICM-20948
Quaternions: normalized, 4D
Accelerometer: 3-axis +/-8g
Magnetometer: 3-axis +/112 gauss
Software support for motion data coming soon.

Connectivity

Proprietary USB receiver (included): 2.4GHz band
Micro USB cable (included): for charging

Supported platforms

Windows: 7,8,10; 8GB RAM; 500MB available disk space
MAC: OS 10.10 or above; 8GB RAM; 500MB available disk space

Power

Battery: Internal Lithium Polymer battery 640mAh
Battery life: up to 9 hours