Emotiv

Flex 2.0

Flex Saline Sensor Kit 2.0

FLEX 2.0 SALINE

32-CHANNEL WIRELESS SALINE EEG HEAD CAP SYSTEM

High-Density Saline EEG, Unlimited Research Flexibility

Unlock the Neural Activity that Drives Human Behavior with EMOTIV's High-Density Wireless Saline EEG Head Cap System.

FLEX Saline Features

Experience unrivaled EEG data granularity and research flexibility with EMOTIV's most precise wireless EEG device yet. FLEX Saline is a 32−channel EEG head cap system that offers researchers the high−density, flexible sensor placement of traditional head cap systems with EMOTIV's industry−leading wireless EEG technology.

32-Channel EEG for Whole-Brain Sensing

Flexible Sensor Placement on the 10-20 System

Optimal placement for capturing granular EEG data.

Refillable Research-Grade Saline Sensors

Maintain consistent sensor conductivity without interrupting your studies.

Battery Status: initial 10 second status display up to 6 hours of battery life

Bluetooth 5.2: Enhanced real-time data transmission

Variety of Flex Cap Sizes

Choice of 54 cm, 56cm, or 58cm cap sizes for comfort & conformity.

Smart Storage

The included travel case is the smart solution for storing and transporting your FLEX. Made from durable EVA foam, the case provides protection and organization for FLEX and its accessories. A dedicated compartment for your Flex Cap allows airflow keeping it in optimal condition.

Flex Your Research Capabilities

Unlike traditional EEG head cap systems that keep participants tethered in a lab, Flex's wireless controller allows you to conduct contextual brain research.

High-Density Brain Monitoring in a Wireless EEG Device

Research-Grade EEG Sensors

32 saline silver–silver chloride sensors.

9-Axis Motion Sensor

Accurately detects head movements.

Connects Seamlessly with PRO

128Hz and 256Hz EEG data transmission in a wireless device.

Optimal Spatial Resolution

Flex Cap's 74 openings allow you to pinpoint a subject's brain activity with greater accuracy.

Common-Mode Noise Rejection

Captures high-quality, reproducible data.

Flexible Controller Positioning

Position the FLEX controller at the top or rear of the head for optimal comfort.

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Full Specifications

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

`NEW` Sampling method: Sequential sampling, dual ADCs

`NEW` Sampling rate: 2048 Hz internal downsampled to 256SPS.

`NEW` Motion Resolution: 16 bits 1 LSB = 0.51μV

`NEW` Bandwidth: 0.16 – 43Hz, digital notch filters at 50Hz and 60Hz

Dynamic range (input referred): 8400 μV(pp)

Coupling mode: AC coupled

`NEW` No slew rate limits: Time-locked EEG, ECG, EMG & EOG signals

EEG sensors

Electrode count: 32 recording electrodes, 2 reference electrodes
Sensor material: 80 Felts Standard Length, 20 Felts Long Length
Size: 11mm diameter felt pad, 2mm rear refill opening

Motion sensors*

IMU part: ICM-20948
Quaternions: normalized, 4D
Accelerometer: 3-axis +/-8g
Magnetometer: 3-axis +/112 gauss

`NEW` Transmit full resolution motion data: Up to 64Hz motion sensor data

Software support for motion data coming soon.

Flex Cap

Available sizes: 54 cm, 56 cm, 58 cm
Variety of Flex Cap Sizes: Comfort & conformity for optimal EEG data
Openings: 74 in the standard 10-20 positions
Pockets for control box: At approximately Iz (for awake studies) and Cz (for sleep studies)
Manufacturer: EasyCap

Connectivity

Proprietary USB receiver (included): 2.4GHz band
USB 2.0+ (only available with EMOTIV Extender)

[NEW] Micro USB-C port & power cable (included): for faster charging
[NEW] Bluetooth 5.2: Enhanced real-time data transmission

Power

Battery: Internal Lithium Polymer battery 595mAh
Battery life: up to 6 hours
[NEW] Power LED: Easily identify Flex Controller's battery life

EMOTIV Inc.

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