CGX
THE LEADER IN EEG TECHNOLOGY

Wireless, Mobile Dry and Wet EEG Systems For Real-World Neuroimaging

January 2021 Product Guide

CGX *A Cognionics Company*

Helping Researchers Get Fast, Accurate EEG Results

CGX enjoys the reputation for designing the most accurate data-rich dry EEG systems for researchers and practitioners.

We've earned this reputation through engineering prowess and best-in-class technical assistance.

Our team of engineers focuses on dry-EEG technology, bringing the benefits of no-prep, accurate results to neurophysiological researchers.

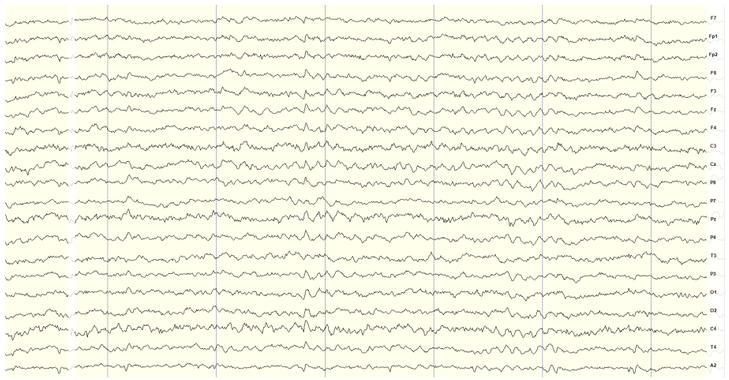
Highest Wireless Data Quality

We design noise reduction into our hardware, with active electrodes, active shielding, and extremely low-noise electronics.

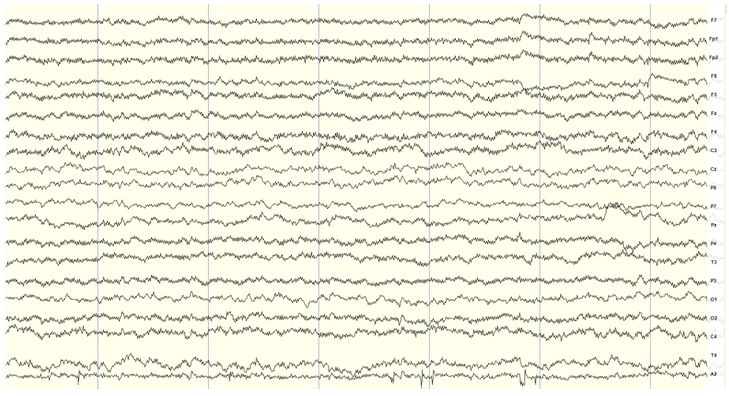
Unrestricted Data Access

We provide raw, unfiltered data in several formats:

.EEG / .EDF / .BDF / .CSV



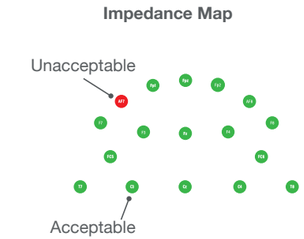
Typical CGX data recording after 5 minute set-up.



Typical competitor's dry EEG data.

Continuous Real-Time Impedance Check

On-board and in software. Near-instantaneous impedance checking assures highest data quality.



Wireless Triggering

Our patented wireless triggers broadcast time markers with millisecond precision, resolving issues of latency and jitter.

Portability And Ease-Of-Use

Most CGX headsets can be put on by a novice, or the user themselves. And once on, the user can move about freely.

Meet The CGX Management Team

Mike Chi, Ph.D.

Mike Chi founded the company in 2010. He holds a PhD in electrical engineering from UCSD.

Ira Friedman

Ira Friedman joined as president of CGX in 2019. He holds an MBA from Harvard Business School.

Spencer Linton

Spencer oversees engineering and production. He holds an EE degree from UCSD.

Started In 2008 In San Diego As Cognionics

We're a UCSD spin-off, funded through grants from NASA, NIH, Navy, Air Force Research Laboratory, Army Research Laboratory, DARPA, TATRC, and other institutions.

CGX QUICK SERIES HEADSETS

Quick Series Key Features.

We redesigned the Quick Series headsets for 2021.

The most advanced dry headsets have undergone a complete re-engineering. With an advanced mechanical design, ground-breaking materials, and an eye to comfort and ease-of-use.

New Quick-20r v2

Fully redesigned wireless headset with active impedance check.

The CGX Quick Series is well regarded for generating research-level data from our active dry electrodes. The all-new Quick-20r v2 features a fully redesigned electrical, mechanical, and structural system for faster set-up, extended wear time, enhanced reliability, and immunity from artifacts.

Quick-20r v2

- EEG amplifier and wireless electronics integrated into headset.
- Active impedance check built into each sensor position for quick set-up and monitoring.
- Flexible composite arms create excellent contact between the sensors and head.
- Fits adolescents through adults.
- Includes 2 variable ExG leads for user-defined EEG, ECG, EMG, and EOG.
- 8 hours of uninterrupted data gathering with two AA batteries.
- Standard 10-20 montage.
- Compatible with BrainVision Recorder.

Fully Mobile, Fully Wireless. 3 Minute Setup

- Place headset on subject.
- Check impedance on each pod.
- Adjust sensors — if required — for comfort and contact.
- Begin wireless data acquisition.

Quick Series Dry Headsets

Technical Overview

Wireless Amplifier

- A/D Resolution: 24-bit simultaneous sampling analog-to-digital converters.
- Sampling rate: 500 samples per second.
- Bandwidth: 0-131 Hz with true DC coupling.
- 3-axis accelerometer measures head motion.
- Wireless Range: 10 meters.
- Noise: <1.0 µV RMS from 1-50 Hz, shorted inputs.

Sensors

- Active electrodes and active shielding for highest signal quality.
- Choose Drypad or Flex sensors at any position.
- Sensor life (all sensors): 200 uses.

Data Stream

- Bluetooth Low Energy.
- Full access to raw data via real-time streaming API.
- Continuous on-board and on-screen impedance check with real-time monitoring of all channels simultaneous with EEG.
- Export data to .EEG, .BDF, .EDF, or .CSV.
- Compatible with BrainVision Recorder, NeuroPype, LabStreaming Layer, EEGLAB, BCILAB, MATLAB, BCI2000, OpenViBE, NeuroGuide and more.
- Open API allows you to build your own applications.

Power

- Two AA batteries: 8 hours.

Cleaning

- Hand wipe between sessions.

General

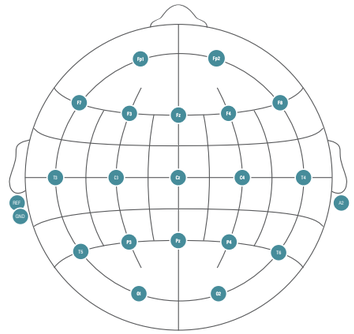
- Weight: 596g in use
- Fits heads sized 52-62 cm
- Dimensions: 20 x 18 x 19 cm

Included In System

Quick-20r Headset plus 2 ExG Channels
Bluetooth Low Energy Dongle
20 Drypad Sensors
40 Flex Sensors
10 Drypad Ear Sensors
30 Skintact Sensors
A1 Earclip
A2 Earclip
3 Active Lead Wires
2 Passive Lead Wires
5 Alcohol Wipes
4 Rechargeable AA Batteries
Battery Charger
Carrying Case
3 Year Warranty

Headmap

Standard 10-20 Montage



Head Size Accommodation

Percentage Of Subjects Per Age Range

Age	Male	Female
9-12	75%	50%
13-16	95%	90%
17-20	95%	95%
21+	97%	99%

The Journal of Pediatrics 2010. United States head circumference growth reference charts: birth to 21 years. J. Rollins, J. S. Collins, K. Holden

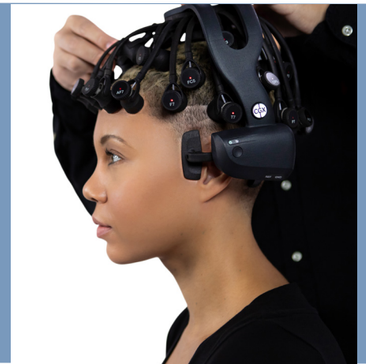
New Quick-32r

Fully redesigned for demanding EEG experiments.

Designed for researchers requiring the highest signal quality, the Quick-32r is a triumph in dry EEG technology. 30 fixed channels —10-20 montage + 10 additional on-head channels — plus 2 ExG channels for gathering additional biometric data.

Featuring our new mechanical design for unmatched comfort and ease-of-use. With impedance check built into each sensor pod, set-up time is reduced to less than 8 minutes per subject.

- EEG amplifier and wireless electronics integrated into headset.
- Active impedance check built into each sensor position for quick set-up and monitoring.
- Flexible composite arms create excellent contact between the sensors and head.
- Fits adolescents through adults.
- Includes 2 variable ExG leads for user-defined EEG, ECG, EMG, and EOG.
- 8 hours of uninterrupted data gathering with two AA batteries.
- Use with our Wireless StimTrigger for sophisticated ERP experiments.
- Compatible with BrainVision Recorder.



Quick Series headsets are light-weight and comfortable — rated for hour-long sessions.

Technical Overview

Wireless Amplifier

- A/D Resolution: 24-bit simultaneous sampling analog-to-digital converters.
- Sampling rate: 500 samples per second.
- Bandwidth: 0-131 Hz with true DC coupling.
- 3-axis accelerometer measures head motion.
- Wireless Range: 10 meters.
- Noise: <1.0 µV RMS from 1-50 Hz, shorted inputs.

Sensors

- Active electrodes and active shielding for highest signal quality.
- Choose Drypad or Flex sensors at any position.
- Sensor life (all sensors): 200 uses.

Data Stream

- Bluetooth Low Energy.
- Full access to raw data via real-time streaming API.
- Continuous on-board and on-screen impedance check with real-time monitoring of all channels simultaneous with EEG.
- Export data to .EEG, .BDF, .EDF, or .CSV.
- Compatible with BrainVision Recorder, NeuroPype, LabStreaming Layer, EEGLAB, BCILAB, MATLAB, BCI2000, OpenViBE, NeuroGuide and more.
- Open API allows you to build your own applications.

Power

- Two AA batteries: 8 hours.

Cleaning

- Hand wipe between sessions.

General

- Weight: 646 in use
- Fits heads sized 52-62 cm
- Dimensions: 20 x 18 x 19 cm

Included In System

Quick-32r Headset plus 2 ExG Channels
Bluetooth Low Energy Dongle
30 Drypad Sensors
60 Flex Sensors
10 Drypad Ear Sensors
30 Skintact Sensors
A1 Earclip
A2 Earclip
3 Active Lead Wires
2 Passive Lead Wires
5 Alcohol Wipes
4 Rechargeable AA Batteries
Battery Charger
Carrying Case
3 Year Warranty

Head Size Accommodation

Percentage Of Subjects Per Age Range

Age	Male	Female
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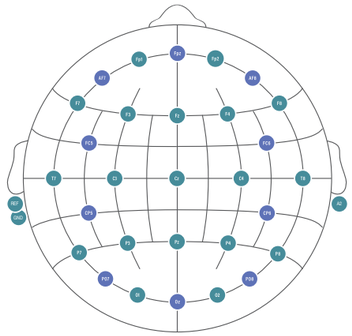
13-16	95%	90%
17-20	95%	95%
21+	97%	99%

The Journal of Pediatrics 2010. United States head circumference growth reference charts: birth to 21 years. J. Rollins, J. S. Collins, K. Holden

Headmap

Standard 10-20 Montage + 10 Additional Channels



CGX HIGH DENSITY HEADSETS

Mobile Series Key Features.

Newly designed with advanced sintered electrodes for improved performance.

These gelled-electrode caps are the highest density fully mobile headsets available, with up to 128 channels of streaming data for advanced full-motion experimentation.

Amplifier and lead wire breakout box attach to a comfortable shoulder harness, keeping weight off the head.

Stream wirelessly, or write to microSD card.

Available in standard 10-10 and 10-5 montages. Custom montages available upon request.

Three standard caps included with each system (54, 56, 58 cm). Custom sizes available at no additional charge.

Modular electrodes can be individually swapped and serviced.

Long lead wires accommodate tall subjects, and full range of motion.

Mobile-128 | Mobile-72

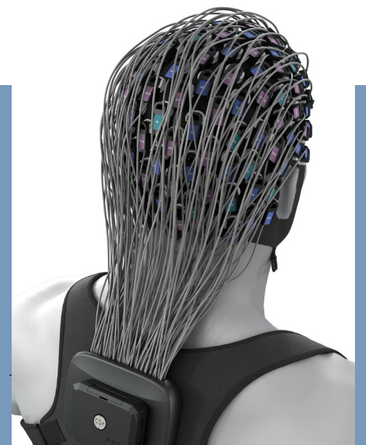
The only 128-channel wireless and wearable EEG system available.

Designed for the most sophisticated experimenters. A quick-install wet-cap based system with active electrodes in a standard 10-10 (72-Channel) or 10-5 (128-Channel) configuration, all with a detachable harness-worn amplifier for the freedom to conduct demanding experiments.

Mobile Series

72 or 128 Channel Systems

- Individual electrodes can be removed and replaced in the field for simplified service.
- Electronics attach to shoulder harness for increased comfort and flexibility.
- Wireless removable amplifier streams data via Bluetooth.
- Electrode bundle detaches from cap for cleaning.
- Ships with three custom-configured wet caps. Additional sizes and montages available.
- System customizations available.



Mobile-72 and Mobile-128

- The only high-performance, truly mobile headsets with 10-10 or 10-5 montages.
- Add auxiliary physiological channels with optional AIM Physiological Monitor.

Modular Design

- Use multiple lead wire and cap sets for high throughput applications. Amplifier detaches from lead wires minimizing cleaning downtime.

Mobile Series High Density Headsets

Technical Overview

Wireless Amplifier

- A/D Resolution: 24-bit simultaneous sampling analog-to-digital converters.
- Sampling rate 500 samples per second.
- Bandwidth 0-131 with true DC coupling.
- Storage through microSD and microSDHC Cards.
- 3-axis accelerometer measures head motion.
- Wireless Range: 10 meters.
- Noise: <1.0 µV RMS from 1-50 Hz, shorted inputs.

Sensors

- Active electrodes with sintered Ag/AgCl contacts.

Data Stream

- Bluetooth.
- Full access to raw data via real-time streaming API.
- Export data to .EEG, .BDF, .EDF, or .CSV.
- Open and unrestricted data access compatible with NeuroPype, LabStreamingLayer, EEGLAB, BCILAB, MATLAB, BCI2000, OpenViBE and more.
- Build custom applications in MATLAB, C, C++, C#, Java or Python.

Power

- Lithium-ion: 4 hours wireless, 10 hours with microSD card.

Cleaning

- Detach cap from electronics to wash.

General

- Weight: System: 1000g. Amplifier only: 98g.
- Fits heads sized 54-58 cm, other cap sizes available upon request.

Included In Systems

Mobile-72

3 Wet Caps (54, 56, 58 cm)
72 Channel Active Electrode Bundle
72 Channel Wireless Amplifier
Harness
Bluetooth Dongle
2 Syringes plus Electrode Gel
2 Rechargeable Lithium-ion Batteries
Charger
Carrying Case
3 Year Warranty

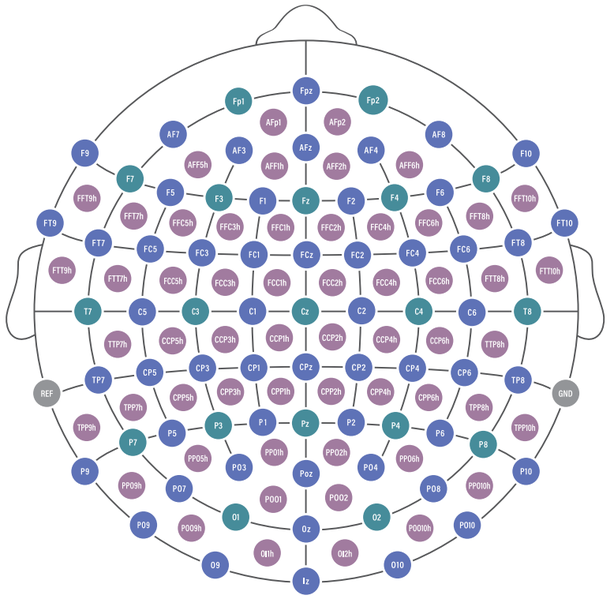
Mobile-128

3 Wet Caps (54, 56, 58 cm)
128 Channel Active Electrode Bundle
128 Channel Wireless Amplifier
Harness
Bluetooth Dongle
2 Syringes plus Electrode Gel
2 Lithium-ion Batteries
Charger
Carrying Case
3 Year Warranty

Headmap

Electrode Color Guide

- 10-20 Montage
- 10-10 Montage
- 10-5 Montage



Mobile-72: Standard 10-10 montage
Mobile-128: Standard 10-5 montage

CAMP Compact Amplifier

For Use With 10-20 Montage Wet Caps

This amplifier has 20 channels and is small enough to fit in your hand. Amplifier includes standard DB-25 connector for use with off-the-shelf wet caps.

CAMP Compact Amplifier

For wet systems

- Compact Amplifier streams via Bluetooth low energy.
- Up to 8 hours of battery life.
- DB-25 port for standard wet caps.
- Built for continual usage.
- Perfect for neurofeedback.

Technical Overview

Wireless Amplifier

- A/D Resolution: 24-bit simultaneous sampling analog-to-digital converters.
- Sampling rate 500 samples per second.
- Bandwidth 0-131 with true DC coupling.
- 3-axis accelerometer measures head motion.
- Wireless Range: 10 meters.
- Noise: <1.0 µV RMS from 1-50 Hz, shorted inputs.

Data Stream

- Bluetooth Low Energy.
- Full access to raw data via real-time streaming API.
- Continuous impedance check with real-time monitoring of all channels simultaneous with EEG.
- Export data to .EEG, .BDF, .EDF, or .CSV.
- Compatible with NeuroGuide, NeuroPype, LabStreaming Layer, EEGLAB, BCILAB, MATLAB, BCI2000, OpenViBE, and more.

Power

- Lithium-ion: 8 hour.

Wet Cap Requirements

- The CAMP system does not include an EEG cap. We recommend the E1 Series with ear inputs from Electro-Cap
- International (Electro-Cap.com).

General

- Weight: 82 grams
- Dimensions: 9 x 8 x 3 cm

Included In System

CAMP

CAMP Compact Amplifier
Bluetooth Dongle
USB Charging Cable
Wall Charger
Carrying Case
3 Year Warranty

Pin-Out Diagram

Cap must follow this DB-25 Pin-out

Dev Kit

Versatile Development Kit

The Dev Kit includes everything you need to undertake EEG experiments and custom hardware development: an 8-channel amplifier, lead wires, CGX dry electrodes, and a comfortable headband.

- Soft, washable fabric band with reinforced polymers for a snug, artifact-resistant fit.
- Standalone amplifier attaches to headband, streams via Bluetooth low energy.
- Eight hours of battery life.
- Configure loose lead lines to meet your experimentation needs.
- Use with CGX and Skintact sensors.

Use With

AurisDK In-Ear EEG sensor

Headband holds up to 8 active, shielded dry electrode pods.

Dev Kit

Technical Overview

Wireless Amplifier

- A/D Resolution: 24-bit simultaneous sampling analog-to-digital converters.
- Sampling rate 500 samples per second.
- Bandwidth 0-131 with true DC coupling.
- 3-axis accelerometer measures head motion.
- Wireless Range: 10 meters.
- Noise: <1.0 µV RMS from 1-50 Hz, shorted inputs.

Data Stream

- Bluetooth Low Energy.
- Full access to raw data via real-time streaming API.
- Continuous impedance check with real-time monitoring of all channels simultaneous with EEG.
- Export data to .EEG, .BDF, .EDF, or .CSV.
- Compatible with NeuroPype, LabStreaming Layer, EEGLAB, BCILAB, MATLAB, BCI2000, OpenViBE, and more.

Power

- Lithium-ion: 8 hour wireless.

General

- Weight: 80 grams
- Dimensions: 90 x 80 x 25 mm

Included In System

Dev Kit

Dev Kit Amplifier
Bluetooth Low Energy Dongle
Passive Ground Lead Wire
9 Active Lead Wires
10 Drypad Sensors
10 Flex Sensors
10 HydroFlex Sensors
30 Skintact Sensors
Headband
USB Charging Cable
Wall Charger
Carrying Case
3 Year Warranty

AurisDK

2 Auris Lead Wires (right)
2 Auris Lead Wires (left)
100 Disposable HydroFlex Earbud Sensors

Auris Earbuds

Unique in-ear EEG for researchers. Comfortable and light-weight with excellent signal quality. Plugs into a single channel on the Dev Kit.

AurisDK *Dev Kit Accessory*

- Stays in place during motion.
- Kit includes 100 disposable HydroFlex Earbud Sensors.
- Replacement sensors available.

AIM Physiological Monitor

Add advanced physiological monitoring to your EEG recordings.

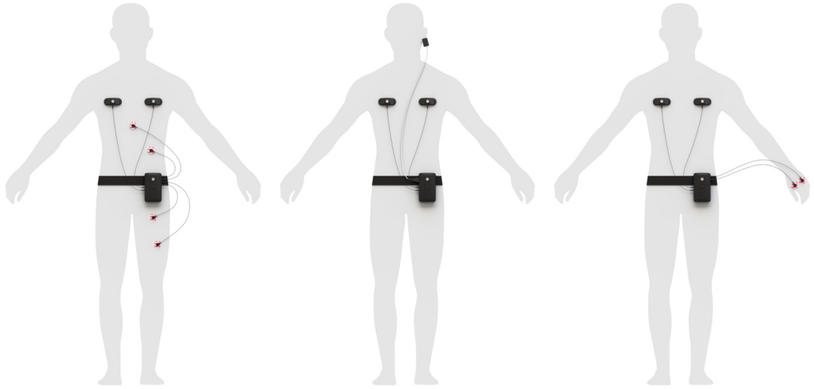
Everything you need to measure physiological response. The AIM Physiological Monitor is a compact, sophisticated unit that adds heart rate, temperature, respiration, GSR, PPG/HRV/SpO2 and more to any EEG system.

AIM Physiological Monitor

Physiological accessory

- Stream wirelessly via Bluetooth.
- Bundled with our proprietary physiological sensors.
- Compact design clips onto belt, or sits on surface.
- 5 hours of battery life.

Typical Testing Set-Ups



ECG + EMG + Respiration Test
Measure physiological response in a light ambulatory setting, capturing muscle EMG from the leg.

Cardiac Output Test
Measure common cardiac functions for monitoring heart health including blood oxygen saturation, heart rate variability, and respiratory sinus arrhythmia.

Emotional Arousal/Stress Test
Measure emotional arousal in response to presented stimulus. Capture changes in respiration, heart rate, and galvanic skin response.

Included Sensors

PPG/HRV/SpO2

GSR and ExG

Temperature

Respiration

Aim Physiological Monitor

Technical Overview

Wireless Amplifier

- A/D Resolution: 24-bit simultaneous sampling analog-to-digital converters.
- Sampling rate 500 samples per second.
- Bandwidth 0-131 Hz with true DC coupling.
- Wireless Range: 10 meters.
- Noise: <1.0 µV RMS from 1-50 Hz, shorted inputs.

Sensors

- 4-Channel ExG.
- Bioimpedance-based respiration sensor.
- PPG/HRV/SpO2.
- 12-bit solid state temperature.
- GSR (EDA).

Data Stream

- Export saved data in EEG or CSV (text).
- LabStreaming real-time output.
- Stream data using the simple API in C, C++, C#, Java, MATLAB or Python.
- Open API allows you to build your own applications.

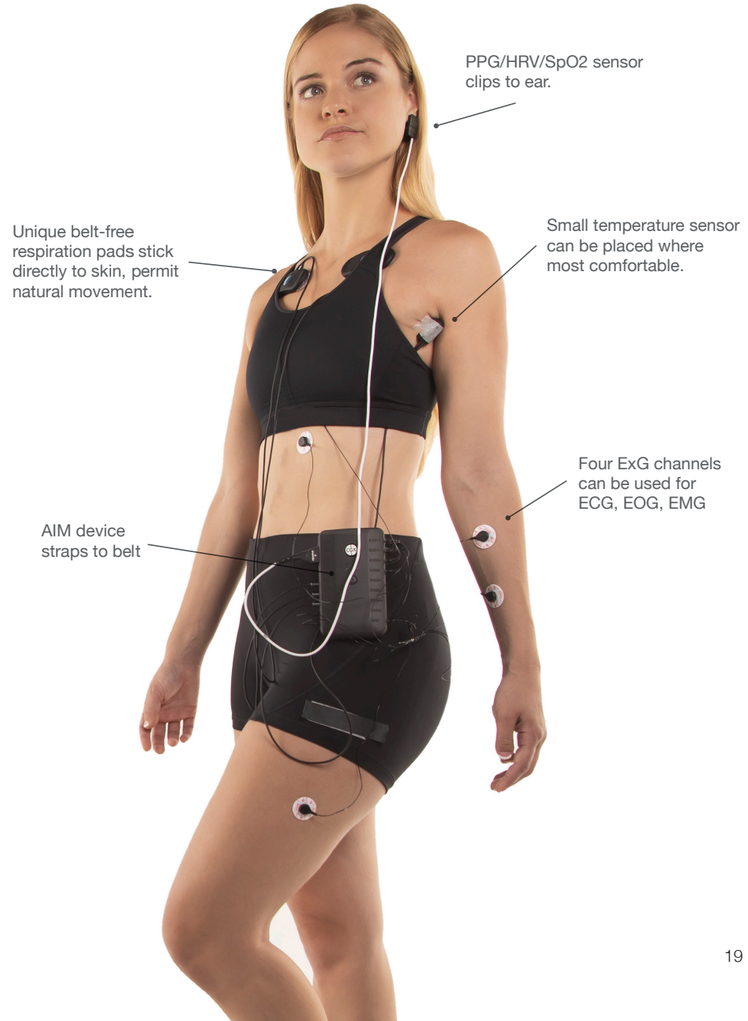
General

- Rechargeable Lithium-Ion Battery: 5 hour runtime.
- Weight: 190g
- Dimensions: 14 x 8 x 3 cm

Included In System

AIM Physiological Monitor

AIM Wireless Amplifier
Bluetooth Dongle
11 Passive Lead Wires
PPG/HRV/SpO2 Sensor
Temperature Sensor
Respiration Sensor Set
30 Skintact ECG Electrodes
USB Charging Cable
Wall Charger
Carrying Case
3 Year Warranty



Wireless StimTrigger

Co-designed by CGX and Cedrus for sophisticated research projects.

Mark events precisely with this all-in-one wireless trigger. Connect to eye trackers and other recorders without the need for software or algorithmic timing compensation.

Wireless StimTrigger

- Accepts light sensors, audio sensors, RB-x40, microphone, and USB.
- m-pod signal mapping assigns any event marker to any output line.
- Wireless broadcasting sends information to a limitless number of in-range receiving systems for multi-subject group research.
- Compatible with virtually all popular triggering and stimulus presentation packages including E-Prime, Presentation, and more.

Works with all CGX systems.

Wireless StimTrigger

Technical Overview

Inputs

- Four (4) light sensors (4th light sensor can be used for microphone).
- Microphone for onset of vocal response.
- Audio in/out pass-through for auditory stimulus.
- Cedrus RB-x40 response pad.
- USB Input for event codes.
- External TTL input.

Wireless Output

- Resolution: 16-bit simultaneous Event Marker data.
- Timing and Latency: <2ms.
- Wireless Protocol: Proprietary 2.4 GHz.
- Wireless Range: 20 meters.
- Compatible with all CGX systems.

Built-in Outputs

- Direct TTL output.
- Audio in/out pass-through.
- Time-stamped output via USB.
- Configurable output.
- Compatible with over a dozen popular recording devices via Cedrus m-pods with support for up to 3 simultaneous m-pods.

Power

- Input: 100-240V AC, 50-60hz, 1.0-0.5A Output: 9V DC, 2.0A

General

- Weight: 525g
- Dimensions: 17.5 x 13.5 x 6cm

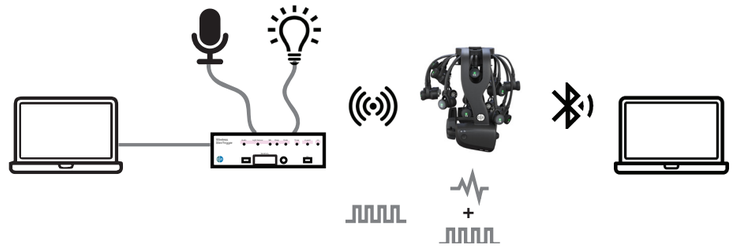
Included In System

Wireless StimTrigger

Wireless StimTrigger
Two Light Sensors with Replacement Adhesives
Two 3.5mm Audio Cables
mini-USB Cable
Power Adapter
Carrying Case
Manual
1 Year Warranty

Example Connection Diagram

Computer With Stimulation Software	Wireless StimTrigger	CGX Headset	Recording Computer
Computer running E-Prime is wired to the StimTrigger with a USB cable.	Microphone and Light Sensor wired to StimTrigger.	StimTrigger sends trigger data to CGX headset using CGX's patented wireless protocol.	CGX headset combines EEG and trigger data into a single file, sending it wirelessly to the recording computer.



TECHNOLOGY OVERVIEW

Overcoming Dry System Challenges

Challenge 1: High Impedance

Dry systems use no gel to make contact through hair, nor adhesive to affix electrode. Removing gel increases impedances.

Challenge 2: Noise

Noise is caused by movement, electrical interference, and electrochemical interference.

The Solution

A successful dry EEG system is the sum of its parts: specific sensor design coupled with a flexible, yet comfortable mechanical solution, driven by a purpose-driven electrical system.

All three of these components — the sensors, headset mechanics, and amplifier — are designed as a system for best performance, as explained below.

Superior Sensor Design

We design our patented sensors in-house. Headsets use two interchangeable designs: DryPad sensors for direct skin contact, and Flex sensors to part hair, making contact with the head.

Sensors are coated in our bio-compatible conductive material, and are rated for 200 uses each.

DryPad Sensor

For direct skin contact. Durable design rated for 200+ uses.

Flex Sensor

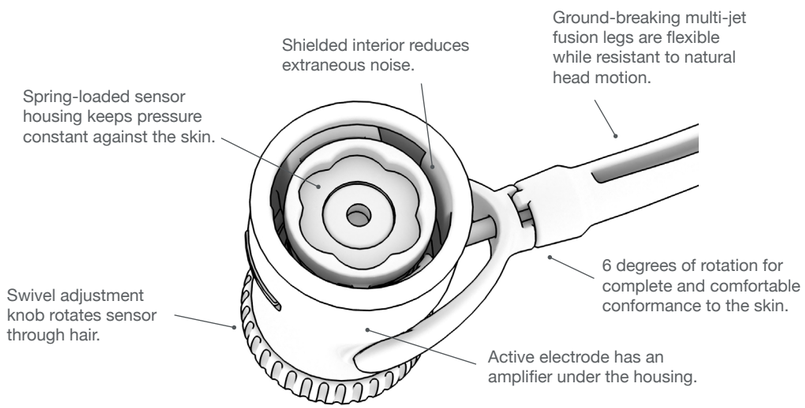
Comfortable legs slide easily between hair to make good contact on the scalp.

TECHNOLOGY OVERVIEW

Exacting Mechanical And Electrical Design

Having the sensor make good contact with the scalp is critical for low impedance measurements. That's why we design the sensors, pods, and legs concurrently.

Quick System Leg And Pod Design



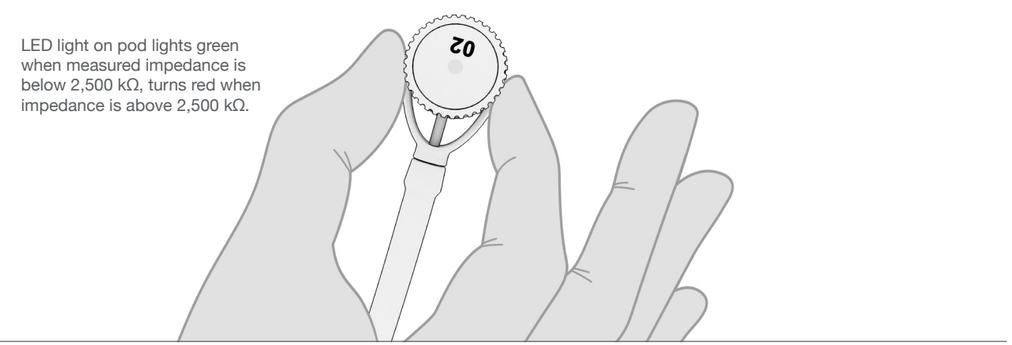
A Truly Mobile Experience

The benefits of CGX Dry are clear when experimentation requires untethered data gathering.

Our 'systems approach' to design gives you an EEG headset tolerant of real-world environments.

On-Board Impedance Checking

Quick Series headsets have on-board impedance checking for confident set-up and subject monitoring.



Operator And Subject Experience

CGX Dry EEG Headsets provide a superior experience for both operator and subject.

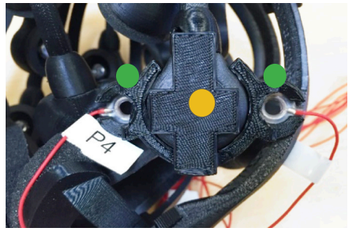
	Traditional Wet Caps	CGX Dry Headsets
Prep And Clean	**Several Hours** 10 min. prep, 10-40 min. sensor set-up, 20 min. cleaning, several hours drying time per cap.	**10 Minutes** No prep, 1-8 min. sensor set-up, 2-5 min. cleaning.
Comfort	**Low** Painful sensor placement, gel is messy and uncomfortable.	**High** Comfortable with 60 min. wear time.
Subject Experience	**Fair**	**Good**
Best For	· When subject's comfort is a low consideration Low throughput investigational projects · Laboratory-only environments · Highly skilled technicians · Few or no time constraints · Ultra-high density arrays	· When the subject's comfort is important · High throughput applications · Self-donning unsupervised applications · Laboratory and real-world environments · Real-world time constraints
3-Year System Cost	**Moderate**	**Approx. 15% Higher Than A Wet System**
Raw EEG Signal Quality Resting Conditions	**High Quality** Alpha, Beta, Gamma, Theta **Moderate Quality** Delta *Requires scalp abrasion*	**High Quality** Alpha, Beta, Gamma, Theta **Moderate Quality** Delta *Dry systems have elevated noise at frequencies below 1 Hz. Mitigated by hydrating sensor tips*
EFP Signal Quality	**High**	**Comparable To Wet**

Comparing Dry Systems To Wet

We built a testing unit comparing real-time, concurrent wet and dry performance. These are the results.

Test Unit

A custom-built dual-mode headset concurrently recording EEG from a CGX Dry system and a high-quality traditional gel-based sensor. We measured a single CGX Dry sensor vs. the average of two wet electrodes (minimizing spatial displacement effects).



Ag/AgCl Electrodes CGX Dry Electrode

Protocol

- Test multiple subjects to capture real-world performance while minimizing experimental variability effects.
- Record simultaneous signals from dry and wet electrodes.
- Examine 10 second raw EEG and evoked potential (50 odd trials, 150 normal trials).
- Repeat experiment swapping dry electrode under test with wet for control data.

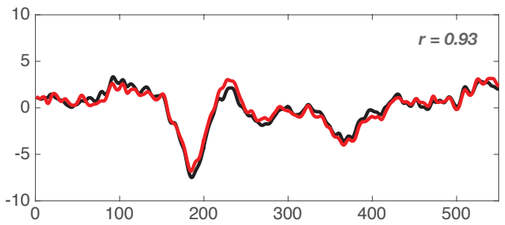
Oddball Experiment

Normal Tone: 150 Trials
Odd Tone: 50 Trials

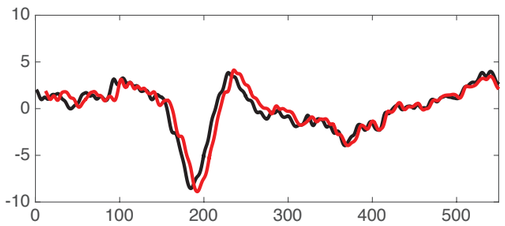
Dry Wet

Normal Tone

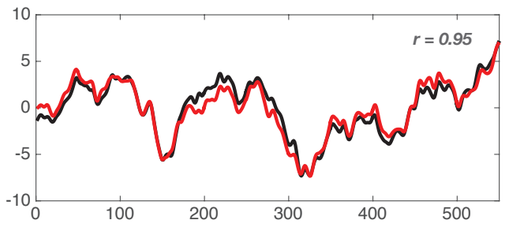
Wet vs. Dry

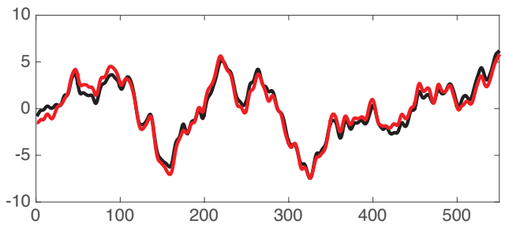


Wet vs. Wet



Odd Tone

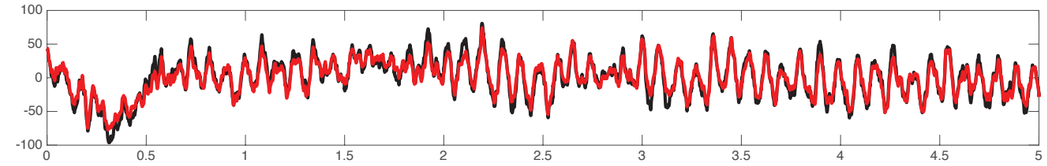




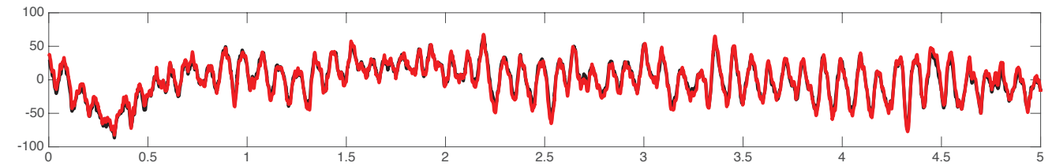
Wet vs. Dry and Wet vs. Wet

EEG Acquisition Settings
Device: CGX Quick-20. Resolution: 24-bits, 1,000 sps. Bandwidth: Raw 0.4-100 Hz

Wet vs. Dry



Wet vs. Wet



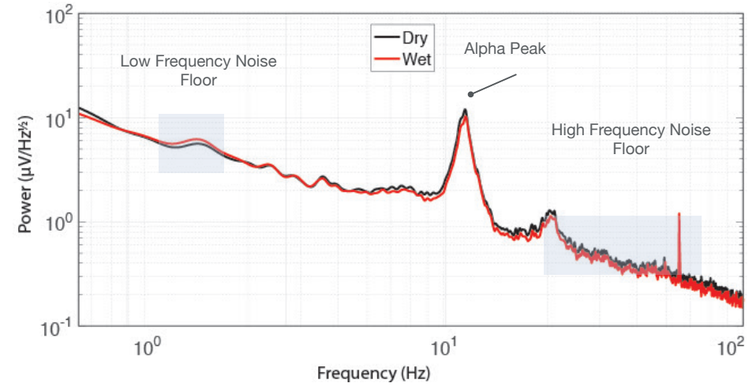
Correlation Results

Wet/Dry and Wet/Wet results show excellent correlation.

	Raw EEG		AEP Normal		AEP Oddball	
	r-Dry	*r-Wet*	*r-Dry*	*r-Wet*	*r-Dry*	*r-Wet*
S1	.90	.95	.99	.99	.98	.99
S2	.95	.98	.93	.96	.95	.98
S3	.96	.97	.97	.99	.96	.98
S4	.97	.99	.97	,98	.94	.99
S5	.93	.98	.93	.98	.95	.97
S6	.97	.99	.97	.98	.94	.97
Mean	**.95**	**.98**	**.96**	**.98**	**.95**	**.98**

EEG/ERP Bandwidth

Device: Quick-20. Resolution: 24-bits, 1000 sps. Power spectrum over 5 min



Dry Wet

Warranty

Headsets And Devices

3 year warranty on manufacturing for headsets and devices. 1 year warranty on Wireless StimTrigger. Warranty is void if the device has been opened or tampered with.

Accessories

1 year warranty on manufacturing defects. 90 day warranty on lead wires and lead wire bundles.

Returns

All units returned to CGX for repair and assessment must have an RA number, issued by CGX. CGX will pay outbound shipping costs.

Ship all returns with an RA number to:
CGX
Attn: Service
8445 Camino Santa Fe, #213
San Diego, CA 92121

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