CADWELL®
Helping you help others

EEG MONITORING SOLUTIONS
ROUTINE · AMBULATORY · ICU · NICU · EMU

MADE IN THE USA *

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Arc EEG

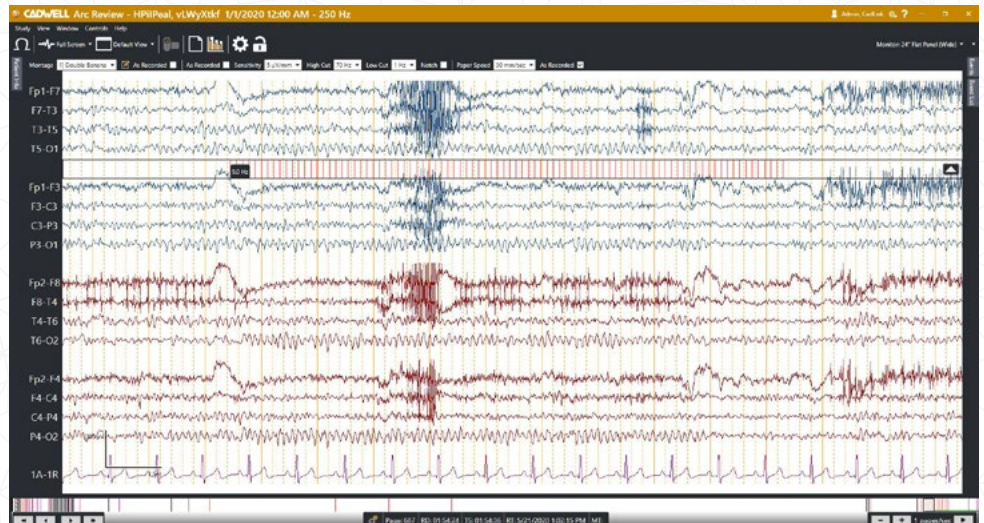# Arc Will Change the Way You EEG

The Arc EEG software platform is the culmination of a decades-long collaboration with our customers responding to advances in brain monitoring.

We considered patient safety, signal quality, efficient workflow, and multi-user collaboration when we designed Arc software for you.

Arc EEG software offers smooth onboarding, simple operation, easy-to-interpret data, streamlined assessment tools, and a rich report generator.

Routine EEG with Photic Stimulation.

WITH ARC EEG, YOU CAN:

- **Save critical time.** Start a study with a single click, enter patent data later.
- **Capture important information.** Highlight videos, detect subtle movements, switch cameras, and add images to reports.
- **Enable wireless EEG.** Arc 3.1 enables Wi-Fi connectivity for remote ambulatory monitoring with Arc Apollo+ and Arc Voyager.
- **Review in record time.** Review and monitor live data simultaneously. Customize displays, auto-shade reviewed pages, and export just highlights. Quickly analyze EEG data frequency with automated FFT measurement tool.

ARC EEG SOFTWARE FEATURES

- Customize patient information fields and user-specific study types, views, montages, windows, displays, hot keys, and event buttons
- Switch users without interrupting studies
- Customize screen calibration to ensure appropriate display of EEG data regardless of monitor, and align and superimpose traces
- Choose Arc Synopsis® or Persyst® for digital analysis
- Support specialized Laplacian montages
- Customize report templates to create narratives quickly
- Anonymize studies, and export and share data with a universally compatible viewer

- Next-generation Application Programming Interface (API) functionality to access rich data and functionality in real-time and in post-processing
- Import and review Easy® III EEG records
- State-of-the-art Room Automation allows you to customize the relay of alerts, activate room hardware (lights, TV, etc.), and connect to third-party systems
- Improve care and capture important information with Synchronized Q-Video to see two views of the patient with one camera, detect subtle movements with accented colors so you don't miss seizures or abnormal movements, and add video screen capture and trace images to reports

aEEG Trends Left and Right

Customizable Event Markers

ICU Burst Suppression with Synopsis Trends.

Spectrogram Trend

Raw EEG Data

Arc Sentinel™

REMOTELY MONITOR MULTIPLE PATIENTS FROM ONE CENTRAL COMPUTER

Arc Sentinel lets you monitor multiple patients from one computer with remote camera control, live video feed switching, viewing and reviewing EEG and video, viewing Arc Synopsis trends, entering events, and receive audible and visual alerts. Arc Sentinel is ideal for nurses' stations and control rooms.

Arc Synopsis®

EASILY RECOGNIZE KEY EVENTS

Analyze EEG data patterns and display trend information customized to each user's requirements with Arc Synopsis® Trends and Detection.

Identify, filter, and set parameters for AEEG, Alpha:Delta, Band Power, Amplitude Asymmetry, Envelope, Spectrogram, and Spectral Entropy.

Trends Package

- Display customized trends based on each patient's unique requirements
- Modify trends on the fly from any Arc PC
- Save complete trends setups

Detection Package

- Includes Trends Package
- Detection Window enables adjustable threshold settings for ease of event identification and marking. Seizure View can consolidate files automatically to show only marked data.

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Arc Apollo+ flexible 32- and 64-Channel Amplifiers for LTM, EMU, ICU, NICU, CLINICAL, and In-Home EEG

COMPACT AND COMPREHENSIVE EEG

Arc Apollo+® is a 32-channel or 64-channel EEG solution for in-hospital, clinical, or at-home monitoring. Record continuous EEG with compact and lightweight wearable 32- and 64-channel amplifiers and a wireless-capable recorder.

- Patients can move freely with continuous data acquisition, and impedance checking
- Enable ambulatory studies with programmable patient event buttons and rechargeable lithium-ion batteries
- Amplifiers feature large, clear labels and 10-20 patterns that comply with Jasper and ACNS standards
- Accessories include the external Patient Event Switch and Voice Event Microphone to simplify EEG-synchronized event marking, Arc Voyager and harnesses, and the Arc Photic Stimulator
- In-home monitoring options include:
  - Arc Voyager for remote continuous or intermittent monitoring
  - Q-Video® Mobile 3 (QVM3) for traditional post-hoc data reviewing

Arc Apollo+ 32-Channel Amplifier, Arc Apollo+ Recorder, and Arc Apollo+ 64-Channel Amplifier are rugged, drop-tested, and IP22 water-resistant.

Q-Video Mobile 3 (QVM3)

DEPLOY ARC APOLLO+ AS NEEDED

- Long-term monitoring in the ICU, NICU, or EMU
- Cardiac patients in the Emergency Room
- Ambulatory in-home studies with QVM3 video
- Remote monitoring of in-home studies with Arc Voyager

Arc Voyager™

In-Home Wireless EEG with Remote Monitoring

Cadwell provides an accessible, dependable, and secure connection for real-time remote continuous or intermittent access via a Wi-Fi or cellular network connection.

- Arc Voyager™ is a wireless remote monitoring system featuring a durable case, an integrated HD camera with automatic infrared switching, a microphone, and a rugged tablet PC with an on-screen patient video display
- Arc 3.1 software enables wireless Wi-Fi connectivity between Arc Apollo+ and Arc Voyager
- Credentialed users can take remote control over the acquisition tablet PC to perform all required monitoring functions

SIMPLE SETUP

Ensure reliable data acquisition with minimal patient interaction. Complete patient setup in your office and send patients home with simple instructions to connect the Arc Voyager power cord to the case and power supply and make sure they can see themselves in the video display.

AUTOMATIC DATA BACKFILL ENABLES DAILY REPORTS

If a patient leaves the Wi-Fi range of Arc Voyager or experiences a bad data connection, the Arc Apollo+ Recorder will automatically backfill data to the Arc Voyager when the connection is restored.

Wireless EEG data capture with automatic data backfill eliminates difficult-to-read EEG data caused by wireless connection issues, ensures that monitoring and reporting activities are always working with a complete data set, and enables comprehensive real-time review for daily and post-hoc reporting.

MAXIMUM PATIENT COMFORT AND FREEDOM

With Arc Voyager and Arc Apollo+, patients benefit from untethered wearable EEG in their homes, maximizing their mobility, comfort, and freedom.

Arc Essentia for Routine, Clinical, EMU, ICU, NICU, and Outpatient EEG

RUGGED 32-CHANNEL EEG FOR ADULT AND PEDIATRIC MONITORING

Arc Essentia® delivers high-quality EEG signals, even in noisy environments. Its rugged and water-resistant hardware can withstand the use and abuse of real-life clinical practice.

Amplifier

- Record up to 32-channels with seven active reference pairs and 250-2000 Hz storage rates
- Electrode continuity check and continuous impedance checking with LED indicators on the amplifier
- Rugged, drop-tested, and IP22 water-resistant.

Remote Input Box

- Color-coded, secure inputs and secure cable connectors ensures convenient setup, recording integrity, patient comfort, and amplifier protection

Arc Photic Stimulator

- Use any Arc amplifier with Arc USB Photic Stimulator (1-60 Hz), and USB oximetry sensor *(available in select markets)*

Patient Event Button

- Patients, caregivers, or family can mark clinical activity

Arc Essentia Amplifier, Arc Remote Input Box, and Arc Photic Stimulator.

ARC ESSENTIA HELPS

- Evaluate cerebral function
- Evaluate EEG background, ischemic events, and clinical and subclinical seizures
- Identify neonatal seizures and monitor the effects of treatment
- Early assessment of outcome after a brain injury HIE, IVH or stroke EEG
- Early identification of pre-term brain injury
- Early evaluation of cerebral maturation

The ICU/NICU Solution

Arc Essentia is a powerful and simple solution for long-term monitoring in intensive care environments.

- A single USB cable to the amplifier aids simple setup
- Poor electrode signal quality indicators for loose or dislodged electrodes
- Non-proprietary touchproof inputs support any electrodes: surface, needles, or caps
- Color-coded inputs on the Remote Input Box enable quick setup
- Easy to use and simple to learn software has touchscreen options
- Get visual and audible notifications of major events
- Expand the channel count on-the-fly
- Network patient data for real-time remote review (optional)
- Add respiratory effort channels to enhance clinical evaluation

Arc Zenith for Intracranial or Extracranial EEG with Direct Cortical Stimulation

HIGH CHANNEL COUNT EEG WITH INTEGRATED DIRECT CORTICAL STIMULATION

Arc Zenith™ empowers up to 288 channels with 1 MHz sampling and storage up to 8 kHz. It was designed to simplify your operational workflow and reduce setup and surgery time.

ARC ZENITH HELPS

- Improve patient outcomes
- Lower the risk of errors
- Enhance data accuracy and analyses

- Auto-generate montages and streamline input layout with auto input mapping
- Select and place your electrode layout from a laptop in the OR.
- Use either graphical or table interface, and automatically generate montages from your electrode sets
- Save setup and configuration time with preset lists of electrodes by type, size, and spacing
- Select any input as ground and any other input as the recording reference on any amplifier
- All intracranial case settings and montages follow the patient record
- Rugged and drop-tested

CORTICAL STIMULATION

Control cortical stimulation mapping through Arc software to help guide the surgical plan.

- For functional mapping, use the software-controlled internal switch matrix for stimulation of any contact
- Customize cortical SSEP stim parameters and create graphs and tables of functional and afterdischarge responses.
- Use Short Pulse Stimulation (SPS) for interruption of afterdischarges during cortical stimulation.
- Take full control of cortical stimulation through the software integrated switch matrix with flexible stimulation parameters
- Document cortical stimulation, functional responses, and afterdischarge responses
- Create graphical images and tables for functional response and afterdischarge mapping with automated integration into reports

ZENECT SMART CONNECTORS

Touchproof Zenect® smart connectors maintain electrode mapping across inputs and between multiple amplifiers, and are custom adapter compatible. Zenect connectors allow easy and rapid disconnection and reconnection of electrodes en mass with less potential for error.

Workstations

PURPOSE-BUILT CARTS FOR EEG

Cadwell's cart, computer, and wall-mount options are designed specifically for technicians, physicians, and your EEG environments. Carts offer height-adjustable worktops and compatibility with a variety of computer and monitor options.

CUSTOMIZE YOUR ARC EEG WORKSTATION

- Use any computer that meets minimum specifications
- Add articulating or flexible arms for amplifiers or the Arc Photic Stimulator
- Set up fixed or retractable camera mounts
- Configure baskets and bins for supplies and accessories
- Add Cadwell electrodes and accessories

FUZION CART

- Lightweight and ideal for clinical practice
- Laptop, desktop, or all-in-one PC options
- Can accommodate a multi-modal system with Sierra Summit® EMG/EP/NCS/US

POLE CART

- Small footprint and fold up keyboard tray designed for tight spaces
- Ideal for intensive care
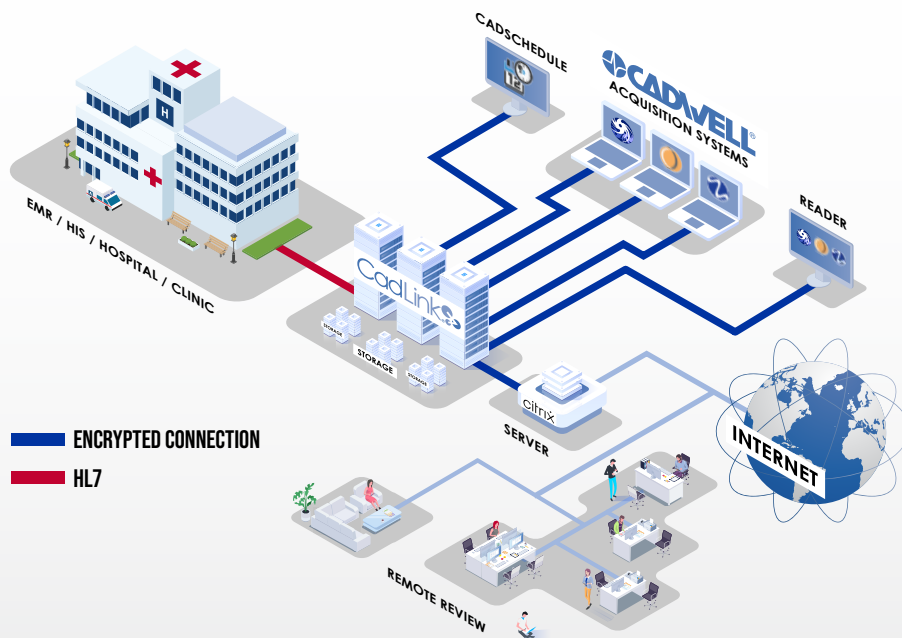- Add a camera mount and an Arc Photic Stimulator on an articulating arm

A3 CART

- Space-optimized and fully functional
- Add a telescopic pole for camera and IR illuminator
- Tilt and swivel monitor mount
- Upgrade to worksurface with removable supply drawer
- Dual monitor capable for ease of review with high channel count

WALL MOUNTS

- Compatible with all Arc amplifiers

PATIENT ROLL STAND

- Enhance patient mobility and safety in the EMU
- Used with Zenith high channel count amplifiers

Network Solutions

CADSCHEDULE

CADWELL ACQUISITION SYSTEMS

READER

EMR / HIS / HOSPITAL / CLINIC

CadLink

STORAGE

citrix

SERVER

INTERNET

REMOTE REVIEW

━━ **ENCRYPTED CONNECTION**

━━ **HL7**

ENSURE CONTROLLED AND SECURE ACCESS TO STUDY DATA WITH CADLINK INFORMATION MANAGEMENT

- Integrate Arc EEG with your current technologies
- Remote EEG monitoring with fail-safe storing and streaming of clinical data
- Secure data and communication: Safe and HIPAA-compliant transferring of encrypted data
- Simple setup, with fast server and client updates that occur independently of EEG recording software
- CadSchedule®: eliminates redundancy and error. Schedule tests, visits, patients, rooms and providers from any CadLink® PC. Appointments auto-populate the Arc home screen
- HL7 Support lets you import patient information from HIS/EMR, and export results and reports back to the EMR
- Auto-Archiving saves data automatically according to predefined criteria to ensure that short-term storage never gets full

HIPAA COMPLIANT

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Ready for a Demo?

Scan the code on the right, or visit the Cadwell website at
www.cadwell.com/contact-us to request a demonstration
for you and your team.