

# Arc EEG

Flexibility for every clinical setting



# Quality in every signal

Arc™ EEG systems deliver flexible, reliable solutions that support technologists and physicians across all monitoring scenarios, from routine exams to intracranial recordings. Our suite of amplifiers, software, and accessories work together seamlessly to provide you with clear clinical insights that help reduce workflow inefficiency.

- **Engineered for reliability:** Drop-tested, water-resistant amplifiers stand up against daily clinical use, ensuring consistent performance.
- **Intuitive by design:** Arc software is refined through direct feedback from clinical end users, simplifying acquisition, review, and reporting.
- **Flexible integration:** Arc EEG systems connect seamlessly with existing institutional PCs that meet minimum specifications, reducing IT overhead and deployment barriers.
- **Support for life:** Every system includes CadCare®, Cadwell's lifetime commitment to providing education, service, and support from clinical and technical experts.





# Arc Essentia

## Trusted performance for routine and long-term EEG

Arc Essentia® sets the standard for dependable EEG acquisition. Designed for reliability and ease of use, it delivers clear, stable signals across a wide range of settings—from routine EEG to long-term epilepsy monitoring.

### Consistent signal quality

High-fidelity amplifiers record up to 32-channels with seven active reference pairs and 250-2,000 Hz storage rates, ensuring accurate signal capture even in challenging clinical environments.

### Simplified bedside setup

Extend your amplifier inputs to the bedside with the Arc Essentia Remote Input Box, featuring secure color-coded inputs in a 10-20 pattern for streamlined setup and amplifier protection.

### Integrated devices\*

- **Arc Photoc Stimulator:** 1-60 Hz, 10 ms pulse width
- **Patient Event Switch:** Enables patients or caregivers to mark key events
- **Additional channels:** Add respiratory effort, EMG, EOG, SPO<sub>2</sub>, and EKG channels for a complete clinical evaluation

\*Applies to Cadwell Zenith, Arc Essentia, and Arc Apollo+



# Arc Apollo+

## Comprehensive, compact, wireless EEG

As Cadwell's most robust EEG amplifier, Arc Apollo+® combines wearable, wireless freedom with high-quality performance. Its versatile design supports comprehensive monitoring in a flexible configuration that scales to every study, from routine and ambulatory EEG to long-term and epilepsy monitoring.

- **Robust for every EEG study**

Available in 32- or 64-channel configurations with sampling rates up to 2,000 Hz, Arc Apollo+ features clear 10-20 pattern labeling compliant with Jasper and ACNS standards, aiding in study accuracy and efficiency.

- **Lightweight power**

The Arc Apollo+ system supports unrestricted movement with continuous data acquisition and electrode quality monitoring. The 32-channel system weighs just 1 lb 3 oz (0.55 kg), supporting even the smallest or most active patients.

- **Continuous and connected**

The wireless-capable Arc Apollo+ Recorder supports real-time and remote monitoring with automatic backfill when patients go out of range. Continuous electrode quality monitoring, customizable patient event buttons, and onboard rechargeable lithium-ion batteries keep studies running smoothly, whether in hospital or at home.





## Q-Video Mobile 3

### ● Reliable HD video for unattended ambulatory EEG

Built to withstand the rigors of the patient home environment, Cadwell's proprietary Q-Video® Mobile 3 camera delivers synchronized video EEG recordings for in-home video EEG monitoring with post-hoc review.

- Capture extended studies with HD video and sound
- Maintain clear video 24/7 regardless of lighting conditions with automatic infrared day/night switching
- Simplify setup and deployment with a single-cable setup with onboard rechargeable power



## Arc Voyager

### ● In-home wireless EEG with remote monitoring

Arc Voyager pairs seamlessly with the Arc Apollo+ system to support secure real-time or intermittent remote monitoring via Wi-Fi or cellular.

### ● Durable design, simplified setup

A lockable, portable case integrates an HD camera with infrared switching, ambient microphone, and rugged tablet PC for live video display. Credentialed users can access and manage acquisition functions remotely, ensuring quality recordings and ongoing patient monitoring.

### ● Never miss a moment with automatic data backfill

If connectivity drops, Arc Apollo+ automatically backfills data to Arc Voyager once reconnected, ensuring complete, continuous EEG data for comprehensive review.



# Cadwell Zenith

## High-channel count intracranial EEG

Cadwell Zenith™ redefines high-channel count intracranial and extracranial EEG. Built for the demands of the epilepsy monitoring unit and operating room, the system aids in rapid setup and seamless workflow integration, and supports research innovation through an open-source API.

### ● Unmatched performance for complex cases

Capture up to 288 channels with 1 MHz sampling rate and storage up to 8 kHz\* per channel, providing precision in intracranial monitoring and cortical mapping.

### ● Smarter workflow. Faster setup.

- Auto-generate bipolar, referential, and area of interest montages instantly
- Track placement of implanted electrodes in real-time
- Use either graphical or tables for fast electrode placement organization
- Access preset electrode libraries by manufacturer, type, size, and spacing
- Assign any input as ground or reference on the fly without pausing or disrupting the recording
- Adjust montage order on the fly without interrupting recordings
- All settings follow the patient record

### ● Redefine time-savings and error-proofing with Zenect smart connectors

Cadwell's patented Zenect® adaptors transform intracranial EEG setup. These magnetic, ID-enabled connectors automatically recognize electrode contacts regardless of orientation, supporting error-free connection, disconnection, or reconnection. Plug in anywhere, in any direction, and record with confidence.

### ● Seamless, software-controlled direct cortical stimulation

Through direct integration with the Cascade® IOMAX® Cortical Module, Cadwell Zenith enables software-controlled cortical stimulation—no manual switching required. Customize stimulation parameters and document responses in real time, map functional areas, and use stimulation pulse suppression to safely interrupt afterdischarges during stimulation.

\*8 kHz not recommended beyond 144 channels





# Arc EEG software

Arc EEG software delivers a unified, intuitive interface that simplifies EEG acquisition, review, and collaboration. Developed with technologists and physicians, Arc software enhances clinical efficiency, workflow consistency, and confidence across all Cadwell EEG systems, and is Persyst-compatible.

## Fully-customizable workflows

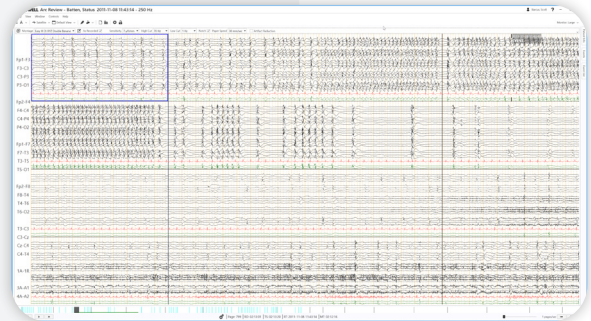
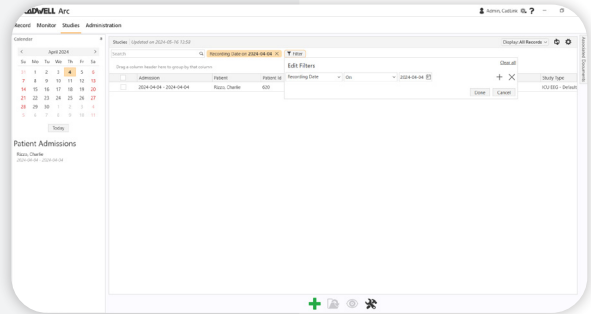
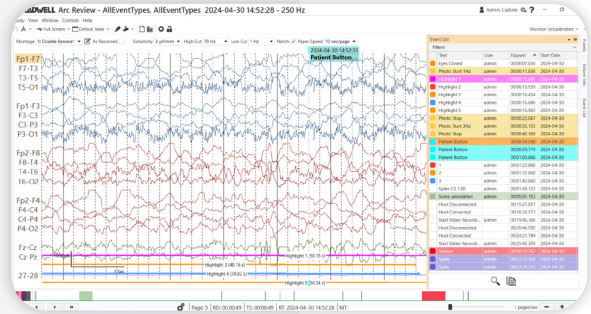
- **Start studies instantly:** Begin recording with a single click, and add patient data later
- **Seamless collaboration:** Switch users mid-study without interrupting acquisition or audit trails
- **Fast, accurate documentation:** Create custom report templates that build clear clinical narratives
- **Secure sharing:** Anonymize studies and export with a universal viewer for smoother collaboration

## Smarter, more efficient review tools

- **Customizable displays:** Highlight key parameters, automatically shade reviewed pages, and export highlights
- **Satellite View:** Review multiple pages of trace data simultaneously within a single window

## Cutting-edge video capture

- **Multi-camera support:** Record multiple video feeds at varying resolutions to capture every angle
- **Optimized for IT environments:** Q-Video reduces video file sizes by fully supporting state-of-the-art video code H.265, lowering storage demand
- **Highlight Motion technology:** Detect subtle movements in low light and low visibility environments, bringing visibility to subtle clinical events



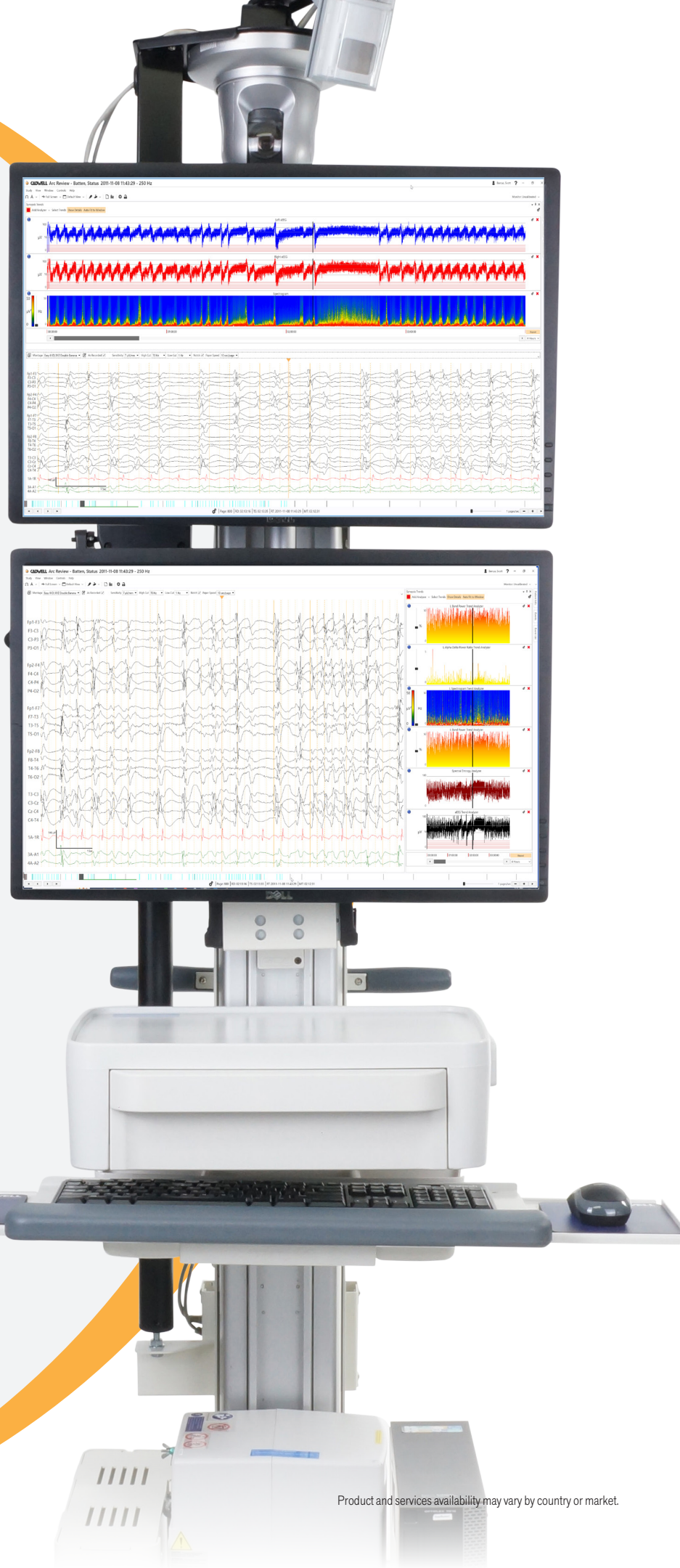
## Arc Synopsis: Event and trend recognition

Visualize EEG activity overtime with Arc Synopsis® to identify emerging patterns and key events at a glance.

- Analyze aEEG, Alpha:Delta, Band Power, Amplitude Asymmetry, Envelope, Spectrogram, and Spectral Entropy
- Trends package includes customized trends based on patient requirements, trend modification from any Arc PC, and save completed trend setups

## Arc Sentinel: Centralized patient oversight

Monitor multiple patients simultaneously from one central workstation. Arc Sentinel gives nurse stations clear visibility into the data they need, without unnecessary data complexity.

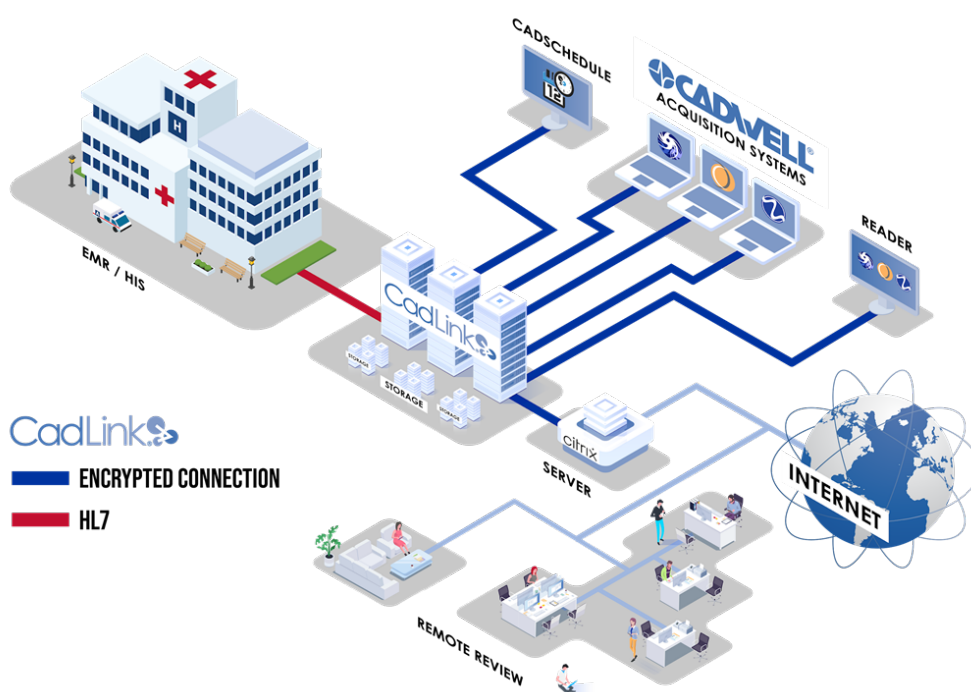




# Protect patient data, anywhere in your network

Organize, manage, and secure patient files and customize user settings with CadLink®, Cadwell's enterprise-level patient information and database management system for EEG, EMG, and IONM.

- **Enterprise-level security:** Ensure safe and HIPAA-compliant transfer of encrypted data
- **CadSchedule®:** Eliminate redundancy and error by scheduling tests, visits, patients, rooms, and providers from any CadLink PC. Appointments auto-populate on the Arc home screen
- **Flexible EMR integration:** Import patient information from the HIS/EMR, and export results and reports back to the EMR with HL7 Support
- **Data access anywhere:** Review and edit patient data from any CadLink-connected workstation or virtual desktop
- **Scalable performance:** Compatible with Citrix XenApp, XenDesktop, and PVS 7.6 LSTR and 7.15 LSTR
- **Save storage space:** Save data automatically according to predefined criteria with Auto-Archiving, ensuring short-term storage never gets full



# Purpose-built workstations

## A3 Cart

Designed for Arc EEG systems and accessories, helping optimize space without sacrificing functionality.

- Supports single or dual monitor setup
- Hydraulic height-adjustable monitor position
- Telescoping camera pole reaches 94.5 in
- Retractable keyboard tray with dual mouse trays
- Smooth, lockable casters
- Enhanced storage drawer for organizing technologists' supplies and accessories



## Fuzion Cart

Compatible with combinations systems, including Arc EEG, Easy® III PSG, and Sierra Summit™ EMG/NCS/EP/Ultrasound. Available in standard load and extra load.

- Height-adjustable column
- Supply bin and tray
- Internal cable management
- Locking casters



## Pole Cart

Cadwell's most lightweight EEG cart, designed for compact spaces.

- Single monitor mount
- Fold-up keyboard tray with mouse tray and holder
- One basket mounts to cart column
- Smooth, lockable casters



## Roll Stand

Enhances patient mobility and safety in epilepsy monitoring units, supporting the Cadwell Zenith system.

- Configure with two Cadwell Zenith amplifiers and Cascade IOMAX Cortical Module
- Supply basket
- Cable management hooks
- Convenient travel handle



## Wall Mount

Designed for use in fixed rooms where space is at a premium.

- Height-adjustable monitor and keyboard
- Tilting monitor mount
- Keyboard tray with retractable mouse tray
- Compatible with Arc Essentia, Arc Apollo+, and Cadwell Zenith amplifiers





# Electrodes, supplies, and accessories

Your complete solution for every EEG study.

## Disposable EEG cup electrodes

Cadwell Disposable EEG Cup Electrodes are single-use, silver/silver chloride designed for routine and long-term EEG studies.



## Reusable EEG cup electrodes

Cadwell Gold Cup Electrodes are available in two cup size options to support adult and pediatric EEG.



## MR/CT conditional EEG cup electrodes

Spes Medica Disposable MR/CT EEG Cup Electrodes are intended for use during MRI scans at 1.5T and 3T, as well as during CT scanning.



## EEG headcaps

Cadwell provides ANT Neuro waveguard™ original and waveguard connect EEG caps, supporting hospital, research, and routine EEG environments.



## Supplies

Available supplies include NuPrep, Ten20 conductive paste, grease pencils, and gauze sponges.



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