

For more information about upgrading earlier versions of AcqKnowledge, [click here](#).

New in AcqKnowledge 5.0.8 (Windows release build date 09.13.2022, macOS 09.23.2022)

- [Workflow](#) automation tool
- Support for MP36AR
- Trial period for software licensed features
- Software check for/download/install updates
- Derivative calculation channel
- Finite Difference calculation channel and transformation
- Python 3 sample code for Network Data Transfer
- Modified sample data/template files
- New export feature allowing event mark information and data to be imported to MATLAB
- Ability to import event marks from a semi-colon delimited text file
- Stimulus presentation support for audio, web pages, and Assembly objects, triggered advancement, and new UI controls
- Bug fixes

New in AcqKnowledge 5.0.7 (release build date 12.28.2021)

NOTE: AcqKnowledge 5.0.7 is for Windows only

- Support for Noninvasive Blood Pressure Systems [NIBP100E](#) and [NIBP100E-HD](#)
- Integration of Scent Delivery System [SDS200-SYS](#) with stimulus presentation
- Bug fixes

New in AcqKnowledge 5.0.6 (release build date 06.02.2021)

- Support for Licensed Features and hardware integration:
 - [Argus](#) eye tracking glasses
 - [EyeTech](#) eye tracking bars
 - [AcqKnowledge Stimulus Presentation](#) for eye tracking bars:
This licensed feature enables users to create stimulus programs from within the AcqKnowledge application, thereby bypassing the need for third-party stimulus software. The AcqKnowledge Stimulus Presentation program simplifies the setup and running of stimulus protocols, while integrating the stim output with available Eye Tracking and FaceReader, in addition to the full range of physiological signals supported by AcqKnowledge and the MP160 System.
 - [B-Alert X24](#) headset
- New filtering options for EEG analysis:
 - [Filter Multiple Channels at Once](#) allows FIR, IIR, or Comb Band Stop filters to be selectively applied to a single EEG channel or to multiple EEG channels at the same time
- Event marks with transparent backgrounds
- Ability to easily export snapshot of current registry content (Windows only)
- Bug Fixes

New in AcqKnowledge 5.0.5 (release build date 08.19.2019)

- 3D Surface View for Find Cycle, AR-Time Frequency Analysis, Waterfall Plots
- Support for new EBI100D and NICO100D Smart Amplifiers

- Improved functionality for B-Alert Wireless EEG and new External Synchronization Unit (ESU)
- Bug Fixes

New in AcqKnowledge 5.0.4 (release build date 01.11.2019)

- Bug Fixes
- Support for new 100D Series Smart Amplifiers – compact amplifiers with automated setup that offer the same functionality as 100C Series Amplifiers in a lightweight, small-form design
- Support for new AMI100D interface for Smart Amplifiers
- macOS Mojave support (10.14)

New in AcqKnowledge 5.0.3 (release build date 09.07.2018)

- 64-bit support for B-Alert systems
- New Realtime mode for Stellar Telemetry systems (Allows data to be streamed directly from Stellar units into AcqKnowledge)
- macOS High Sierra support (10.13)
- Bug Fixes

New in AcqKnowledge 5.0.2 (release build date 09.18.2017)

Supported OS: Windows 10, 8.x, & 7, Mac OS X 10.10-10.12

Supported Hardware: MP160/150/MP36R/BioHarness Bluetooth/Mobita/Stellar/BN/BN Logger/BN Smart Center

- Smart Center support
- Analysis Shortcuts – allows easy access to specialized analysis options from within a data channel
- AcqKnowledge 5 and AcqKnowledge 4 can now run side-by-side on the same computer
- Bug fixes

New in AcqKnowledge 5.0.1 (release build date 11.24.2016)

Supported OS: Windows 10, 8.x, & 7, Mac OS X 10.10-10.12

Supported Hardware: MP160/150/MP36R/BioHarness Bluetooth/Mobita/Stellar/BN/BN Logger

- 64-bit support for Stellar Systems Licensed Feature
- macOS Sierra support
- Bug fixes

New in AcqKnowledge 5.0 (release build date 07.28.2016)

Supported OS: Windows 10, 8.x, & 7, Mac OS X 10.9-10.11.x

Supported Hardware: MP160/150/MP36R/BioHarness Bluetooth/Mobita/BN/BN Logger

- MP160 hardware support
- 64-bit architecture allows the application to access greater memory resources
- New driverless KeyLok Licensing System
- Enhancements to Mobita Licensed Feature:
 - Mobita Export Logger Data menu option, making it easier to download logged data from the device
 - Common average removal option, useful for removing noise and artifact from data
- Bug fixes

NOTES:

- AcqKnowledge 5.0 is supported on 64-bit operating systems only. AcqKnowledge 4.4.2 is the highest software version that will run on 32-bit OS.
- Stellar and B-Alert Licensed Features are not supported in the AcqKnowledge 5.0 release.

New in AcqKnowledge 4.4.2 (release build date 04.08.2016)

Supported OS: Windows 10, 8.x, & 7, Mac OS X 10.7-10.11

Supported Hardware: MP150/MP36R/B-Alert/BioHarness Bluetooth/Stellar/Mobita/BN/BN Logger

- OS X 10.11 support
- FaceReader Integration – Licensed feature supporting integration of facial emotional state recognition data with AcqKnowledge physiological data
- B-Alert – Improved baseline recording in shorter durations
- MP36R Arbitrary Wave Stimulation – new output control panel that allows the MP36R to be used to generate arbitrary waveform output. The arbitrary waveform output is similar to the MP150, allowing for generation of square, sine and ramp signals or arbitrary signals from another open graph window

Continues...

- Stellar v2 Hardware Support – new hardware support for the next generation of Stellar transmitters. This supports extended memory, transmitters that have customized signal types, real-time data previews to assist in implantation, accelerometers, mini-mouse units, and other functionality
- Enhanced Discrete Wavelet Transformation Analysis – now includes a Stationary Waveform Transformation option and multi-channel output of transformed data
- Sweep Display Mode - This mode is similar to an oscilloscope sweep display. Data is plotted left to right but when new data is incoming, earlier data remains visible on the screen
- Module Setup improvements
- Find Cycle improvements
- Bug fixes

New in AcqKnowledge 4.4.1 (release build date 10.05.2015)

Supported OS: Windows 10, 8.x, & 7, Mac OS X 10.7-10.10

Supported Hardware: MP150/MP36R/B-Alert/BioHarness Bluetooth/Stellar/Mobita

- Support for new BioNomadix Data Logger
- Enhanced support for B-Alert Wireless EEG System
- Enhanced support for Stellar Telemetry System
- New Stellar Specialized Analysis options
- RSA Time-series option added to HRV and RSA Specialized Analysis
- Dropbox support – save/retrieve AcqKnowledge files to/from a Dropbox account
- Collapsible channels – quickly hide and unhide single or multiple channels with one click
- Updated installer
- Bug fixes

New in AcqKnowledge 4.4 (release build date 05.22.2014)

Supported OS: Windows 8, 7, & Vista, Mac OS X 10.6-10.9

Supported Hardware: MP150/MP36R/B-Alert/BioHarness Bluetooth/Stellar/Mobita

Automated Analysis Enhancements

- EEG Seizure Analysis – new routine for locating seizures in long-term small animal EEG recordings
- Estimated Cardiac Output from Blood Pressure – new Hemodynamics specialized analysis option

- HRV and RSA automation enhancements – Statistical analysis: Multi-epoch HRV; Spectral Analysis: Multi-epoch HRV and RSA; Single-epoch HRV; R-R Poincare Plot; RSA Time-series

New Licensed Feature Options

- Baroreflex Analysis
- Actigraphy Analysis – correlates wireless accelerometer data for sleep studies

New Hardware Integration

- Mobita 32-channel wireless data support
- Stellar Telemetry System support for wireless ECG and blood pressure

User Interface Tools

- GPS Integration – import GPS data to synchronize physiological data with physical location
- FIR Filter Calculation Channel – apply high quality FIR filters in real time
- Slew Rate Limiter – precise real-time or offline tool for denoising and removing motion artifact
- Event-based Rate Measurements – extract the mean, median and standard deviation of online and offline Rate outputs
- Elapsed timers – stopwatch, elapsed timers, and alarm to time experiment protocols
- Embedded PDF Integration – embed PDFs of procedures, analysis, etc. into graph files and journals
- Sequential File Merge – merge separate graphs into appended segments within the same graph
- Dataquest file format import
- Simplified User Interface and UI updates

New in AcqKnowledge 4.3.1 (release build date 08.05.2013)

Supported OS: Windows 8, 7, & Vista, Mac OS X 10.6-10.8

Supported Hardware: Supported Hardware: MP150/MP36R/B-Alert/BioHarness Bluetooth

- Horizontal split view—allows viewing of two independent horiz. axis areas in same graph
- Journal hyperlinks and page setup tool
- High frame rate camera support
- MP150 communication improvements
- Labels for append events may be edited
- Preferences may be cleared by holding Shift key down while launching application
- File-specific output control presets for MP36R
- Files may be opened for Playback from the Startup Wizard
- New scripting commands for: changing output control preset, get acquisition sampling rate, change active output control, callback for window activation, toggling output control, calibrate a channel of the graph
- Epoch Analysis option to start first interval at beginning of each focus area
- Support for MPMS200 and OXY300-MRI hardware
- New measurement validation sample data files with accompanying spreadsheets for verifying measurements

New in AcqKnowledge 4.3 (release build date 11.05.2012)

Supported OS: Windows 8, 7, & Vista, Mac OS X 10.6-10.8

Supported Hardware: MP150/MP36R/B-Alert/BioHarness Bluetooth

- Linked acquisitions supporting multiple hardware types
- Increased channel count support – up to 15,000 channels
- Consolidated and multiple hardware support
- Improved compatibility for standard user account presets & specialized analysis settings
- Bluetooth integration for BioHarness®
- Scaled ECG boundary selection
- ICG Analysis improvements
- Pressure Volume Loop Analysis tools
- Find Cycle enhancements
- Rate Detector enhancements
- Graph Textual Value Display and Toolbar
- Original data restored after canceling transformations
- Focus Area feature
- Tabbed graph interface
- Noldus import/export
- SMI BeGaze data import

- Improved software controls for B-Alert® wireless EEG system
- High-res cameras supported in Media Capture/Playback
- Media Capture/Playback now supports linking to earlier-format AcqKnowledge 3.9/BSL 3.7 files
- Selection palette toolbar icon
- Linked selection option from the I-beam tool
- Measurement column selection
- Rate/Expression Presets
- Automated analysis changes to EEG - analyze multiple channels in one go
- Additions to the ICG analysis
- Journal docking options
- New preference to “pin” dialog windows on top of application
- New MP150 Modules for Heel/Toe Strike, Dyno Clench Bulb and Goniometer setup

New in AcqKnowledge 4.2 (release build date 05.31.2011)

OS Support: Windows 7 & Vista, Mac OS X 10.5-10.7

Hardware Support: MP150/MP36R/B-Alert

- BioNomadix wireless module support
- Rich Journals
- Expressions in Journal
- Tables and Excel® functions
- Docked and independent Journal windows
- MP36R universal built-in amp module support
- Pulse Sequence Output Control
- Sound Sequence Output Control
- Analog Channel scaling units adapt to gain
- Simplified Hardware Filtering options
- Startup Wizard for launching application
- Check for MP hardware function
- Email graph image as attachment
- Event enhancements
- Global Event label printing
- Customizable Event markers
- Customizable append segment labels
- Sequential Event labels
- Sorted Event summary
- Mark selection from Events
- Measurement enhancements
- Single point measurements
- X/Y measurement label display
- Revised invalid measurement display
- Media playback —automatic segment advancement
- User Interface Tools
- Most Recently Used options
- Preset menu separators
- Keyboard data selection enhancement
- Zoom out for Spectrum Analyzer
- Enable tools during acquisition (Preference)
- Cursor tools sub-menu
- Mouse scroll-wheel zoom support
- Graph file display enhancements
- Select channel background
- Select line plot thickness
- Data Playback enhancements
- Start/End axis adjustment
- Horizontal Axis Hold Relative Position
- X/Y display crosshairs enhancement
- Customize default graph window position and size
- Default analog channel unit display preference
- Grid enhancements
- Channel independent grid settings
- Grid presets
- Gaussian Random Number Generator
- Automated Analysis routine enhancements
- Poincare Plot Hemodynamic Analysis
- Locate Muscle Activation adjustable windowing
- Advanced Averaging

- Sound Feedback

Licensed features

- *New* Remote Monitoring — ‘bedside monitor’ display
 - View subject data remotely over a network
- *New* B-Alert X-10® Wireless EEG System
 - EEG wireless headset integration
 - Cognitive States Analysis
- BIOPAC Basic Scripting
 - Script Editor Reset Defaults button

New in AcqKnowledge 4.1 & 4.1.1 (release build dates: 4.1, 07.21.2009, 4.1.1, 04.23.2010)

- OS Support: Windows 7 & Vista, OSX 10.5-10.7
- Hardware Support: MP150/MP36R (BioHarness ISM in AcqKnowledge 4.1BH)

Licensed Features v4.1.1

- Network data transfer
- Vibromyography
- Scripting

Automated Analysis Enhancements

- Independent detrending (HRV & PSD) v4.1.1
- Slew rate limiter for MRI analysis v4.1.1
- HRV algorithm improvements
- HRV analysis QRS threshold percentage
- ICG Analysis Output Options
- Event-related EDA Analysis
- Stim-response configuration enhancements
- Digital Input to Stim Events
- Specialized analysis dialogs
- Module-based analog setup
- MP36R Four-channel D/A unit support

Measurements

- Sum measurement
- Measurement presets

Feature Enhancements

- Media Capture Windows (audio and/or video)
- Artifact Rejection functionality
- Timed Reset for Integrate calculation and transformation

User Interface Enhancements

- Analysis dialogs: consolidated parameters in a single dialog - Online averaging progress bar
- Transformation history
- Canceling Transformations & Transformation Progress Bar
- Custom toolbars for transformations and analysis
- Toolbar position retention and changes
- Event tool enhancements
- Typed event label drawing improvements
- Choose MP150 Help Button

- Button Transparency
- Vertical axis scaling buttons
- Long channel labels and units
- Customizable Chart Track Dividers
- Graph window tooltip improvements
- Menu item tooltips

New in AcqKnowledge 4.0 (release build date 07.22.2008)

OS Support: Windows 7 & Vista

Hardware Support: MP150

Automated Analysis Packages

- Detect and Classify Heartbeats
- Locate ECG Complex Boundaries
- Chaos Analysis
- Detrended Fluctuation Analysis
- Optimal Embedding Dimension
- Optimal Time Delay
- Plot Attractor
- Correlation Coefficient
- Electrodermal Activity
- Impedance Cardiography Analysis
- Adaptive template matching
- C point location
- Body Surface Area
- Ideal Body Weight
- ICG Analysis
- VEPT
- PEP Pre-ejection Period
- dZ/dt Derive from Raw Z
- Derive Phasic EDA from Tonic
- Event-related EDA Analysis
- Locate SCRs
- Electroencephalography
- Compute Approximate Entropy
- Delta Power Analysis
- Derive Alpha-RMS
- Derive EEG Frequency Bands
- EEG Frequency Analysis
- Remove EOG Artifacts
- Electromyography
- Derive Average Rectified EMG
- Derive Integrated EMG
- Derive Root Mean Square EMG
- EMG Frequency & Power Analysis
- Locate Muscle Activation
- Ensemble Average
- Epoch Analysis
- Hemodynamic Analysis
- Classifiers: ABP; LVP; MAP
- Arterial Blood Pressure
- ECG Interval Extraction
- Left Ventricular Blood Pressure
- Monophasic Action Potential
- Respiratory Sinus Arrhythmia
- dZ/dt Classifier: B, C, X, Y, and O Points
- dZ/dt Remove Motion Artifacts
- Magnetic Resonance Imaging
- Artifact Frequency Removal
- Artifact Projection Removal
- Median Filter Artifact Removal
- Signal Blanking
- Slew Rate Limiter
- Neurophysiology
- Amplitude Histograms
- Classify Spikes
- Average Action Potentials
- Dwell Time Histograms
- Generate Spike Trains
- Locate Spike Episodes
- Find Overlapping Spike Episodes
- Set Episode Width and Offset
- Principal Component Denoising
- Remove Trend
- Respiration
- Compliance and Resistance
- Penh Analysis
- Pulmonary Airflow
- Spectral Subtraction
- Stim-Response
- Digital Input to Stim Events
- Stim-Response Analysis
- Waterfall Plot
- Wavelet Denoising

Multichannel Event Marking System

Event marking system is now combined with Cycle/Peak Detector, allowing automated measurements around specific events and additional event marking based on measurements taken. For example, mark when a dose or task occurs and automatically measure and mark the maximum response.

Cycle (Peak) Detector interface

Advanced Cycle/Peak Detector combines with powerful new Event Marking System. Perform amplitude, time, or event-based measurements. New output options for measurements, averaging, events, clustering (K-means), and 3D surface (cycle data, histogram, FFT, and DWT).

Transformations

- Most recently used transformation and analysis
- Adaptive template matching transformation
- Normalized Cross-correlation Template Transformation
- Remove projection template
- Delay transformation
- Cubic spline resampling options
- Spectrum analyzer/real-time FFT

Calculation Channels

Calculation metachannels—daisy-chain calculations, such as Filter and Difference, on one channel

Dynamic digital filter options

Measurements

- Equation Generator/Expression enhancements—online and post-acquisition
- Interpolated measurements
- New measurement options to optimize event marking system

User Interface – Display and control of data

- 3D data visualization
- Text annotations—add zest to your publication screen shots or annotate the file beyond marker notes
- Print functions—adjust data range for printing; print waveform data in black; print file to PDF
- Adaptive scaling—vertical scale updates in real time to optimize data display
- Grids—Friendly grid scaling; Flexible grid options Grid Tool
- Balloon Help
- Multiple levels of Undo
- Jump tool
- Rescale operations
- Selection palette—place cursors at specific time points
- Mouse scrollwheel support
- Keyboard Shortcuts added (accelerator keys)
- Cursor Tools Contextual Menu
- Replay data

Data processing

- Large file support
- Batch acquisitions
- Multithreaded operation

File Formats

- Excel Export (for reports with tabular data)
- Save Selection As moved to File menu and added = Wav, EDF, JPEG; removed = Metafile (*.WMF)
- Open Mac AcqKnowledge 3 Graph
- BSL file import
- EDF file import and export
- Igor Pro Experiment import/export
- WAV file format import/export

Mac OS Integration

- Automator scripting language integration
- Spotlight integration

New in AcqKnowledge 3.9.1 (release build date 07.11.2007)

OS Support: 7, Vista, & XP

Hardware Support: MP150/100

- Manual Stimulator Control
- Specialized Analysis New Packages & Enhancements
 - Correlation Coefficient
 - Spectral Subtraction
 - Electroencephalography (EEG) analysis tools
 - Electromyography (EMG) analysis tools
 - Neurophysiology analysis tools (single microelectrode extracellular)
 - Magnetic Resonance Imaging artifact removal tools
 - Respiratory Sinus Arrhythmia (in Hemodynamics)
 - Stim-Response
 - Electrodermal Activity
 - Excel Export (for reports with tabular data)
 - Updated: Impedance Cardiography (adaptive template matching C point location)
 - Enhanced: B-C Interval (dZ/dt max option)
- Clustering (K-means)
- Template Options
 - Normalized Correlation Coefficient
 - Adaptive Template Matching
 - Remove Projection Template
- File Format Options
 - BSL File Import
 - Excel Spreadsheet Export
 - Spotlight Importer for Graph Files
 - WAV Files—Import, Export
- Text Annotations
- Stacked Plot Display Mode
- Jump-to Tool
- Selection Palette
- Play Channel Data as Audio
- Event Journal Summary Features
- Selected Range Printing in Journal
- Resampling Interpolation Options
- Automator Integration & Scripting
- Mouse Scrollwheel Support
- Mac on Intel Compatibility

New in AcqKnowledge 3.9.0 (release build date 11.17.2006)

OS Support: 2000 & XP

Hardware Support: MP150/100

- New Calculation Channels:
 - Filter: Comb Band Stop (base frequency and its overharmonics)
 - Fourier Linear Combiners
 - Adaptive Filter
- New Transformations:
 - Digital Filters: Adaptive Filter
 - IIR Filter: Comb Band Stop
 - Fourier Linear Combiners (FLC)
 - Power Spectral Density
 - DWT Wavelet Transformation
- Additional File Import/Export Options:
 - Excel Spreadsheet Export
 - Raw File Import/Export
 - Igor Pro Experiment
- Expression logic additions:
 - Source—Sample, Pi, True (1), False (0)
 - Function—and, equal, if (2-way), less, not, or, xor (exclusive), ceiling, floor, is infinity, conditional (3-way), not a number, floating point modulus, measurement
- Specialized Analysis
 - Heart Rate Variability
 - Gastric Wave (electrogastrogram)
- Automatic MP Firmware Update
- Paste/Copy Acquisition Setting

New in AcqKnowledge 3.8.2 (release build date 02.21.2006)

OS Support: 2000 & XP

Hardware Support: MP150/100

- Stimulator START/STOP button
 - Users can turn ON/OFF the stimulator output in an interactive fashion, before, during or after acquisition.
- Video synchronization
 - *AcqKnowledge* can record and synchronize a video signal with an acquisition.
 - Includes a DELAY option to permit a delay of the acquisition for tight synchronization to the start of the video.
- Hold Relative Position (Horizontal Scale)
 - Hold the relative position of the horizontal scale for appended acquisition segments.
 - This is convenient for experiments where the signal remains in the same location for each acquisition.
 - This is very convenient for short duration, high-speed acquisitions, where the signal of interest is in the same position during acquisition (for example, when using the stimulator you can zoom in on the signal of interest and have the relative position from the start of acquisition stay the same).
- Language translations
 - *AcqKnowledge* software is available in English, Chinese (Simplified or Traditional), French, Italian, Japanese, and Spanish.

New in AcqKnowledge 3.8.1 (release build date 08.20.2004)

OS Support: 2000 & XP

Hardware Support: MP150/100

- | | |
|---|---|
| <ul style="list-style-type: none"> • Lab Assistant GLP Package Option for MP150 Systems • Multiple Real-time Data Views • Multiple Hardware Connections for MP150 Systems • Merge Multiple Graph Files into One File • Advanced Averaging (P300 functionality) • Dual stimulation (2 per MP150) • Overlap Segment mode | <ul style="list-style-type: none"> • Rewind and erase last segment(s) • Markers – Automation & Enhancements • Embedded Data Archives for Data Comparison • MATLAB files Compatibility • File Compression |
|---|---|

Earlier Mac Builds:

New in AcqKnowledge 3.9.2 (release build date 03.14.2007)

OS Support: OSX 10.4-10.6

Hardware Support: MP150/100/35

- Specialized Analysis Additions & Enhancements:
 - Respiration
 - Penh Analysis
 - Pulmonary Airflow
 - Compliance & Resistance
 - Neurophysiology: Amplitude/Half-Width Spike Discriminator to Locate Spikes
 - Heart Rate Variability: Locate R-waves Using Events
- Calculation Channel Additions & Enhancements
 - Metachannels: Use a single calculation channel to perform a chained computation
 - Filter: Comb Band Stop (base frequency and its overharmonics)
 - Rescale: adjust calibration values of analog channels (also in Automator)
- Transformation Additions & Enhancements:
 - Delay: add time delays to signals
 - Filter: Comb Band Stop
 - Rescale: adjust calibration values of analog channels
- Spectrum Analyzer (real-time and post-acquisition FFT)
- Digital Filter Enhancements
 - Cutoff frequency: Calculation channels FIR, IIR, Comb Band Stop
 - Transformations FIR, IIR, Comb Band Stop, and Derivative
- Automator: Digital Filter-FIR/IIR, Comb Band Stop, and Derivative
- # of coefficients: Transformations: FIR and Derivative
- Automator: Digital Filter-FIR and Derivative
- Clustering (K-means) Options
 - Export Clustering results to Excel Option
 - 3D Scatterplot Background Modification
- Measurements: Event Amplitude Maximum and Minimum
- Network data transfer: allow applications running on other computers attached to the same network to gain access to data from AcqKnowledge as it is being acquired
- Data Management Features
 - Data snapshot details
 - European Data Format (EDF) file import/export
 - Batch Acquisitions Resume function
 - Selection Palette Options (Paste to Journal, Change Measurement Units)
 - Recently Used Transformations Submenu
 - 3D Dialog Positions—Tile, Stack, and Cascade
 - “Cancel” Button Added to Specialized Analysis Transformations

New in AcqKnowledge 3.9.1 (release build date 08.16.2006)

OS Support: OSX 10.3-10.4

Hardware Support: MP150/100

- Specialized Analysis New Packages & Enhancements
 - Correlation Coefficient
 - Spectral Subtraction
 - Electroencephalography (EEG) analysis tools
 - Electromyography (EMG) analysis tools
 - Neurophysiology analysis tools (single microelectrode extracellular)
 - Magnetic Resonance Imaging artifact removal tools
 - Respiratory Sinus Arrhythmia (in Hemodynamics)
 - Stim-Response
 - Electrodermal Activity
 - Excel Export (for reports with tabular data)
 - Updated: Impedance Cardiography (adaptive template matching C point location)
 - Enhanced: B-C Interval (dZ/dt max option)
- Clustering (K-means)
- Template Options
 - Normalized Correlation Coefficient
 - Adaptive Template Matching
 - Remove Projection Template
 - File Format Options
 - BSL File Import
 - Excel Spreadsheet Export
 - Spotlight Importer for Graph Files
 - WAV Files—Import, Export
- Text Annotations
- Stacked Plot Display Mode
- Jump-to Tool
- Selection Palette
- Play Channel Data as Audio
- Event Journal Summary Features
- Selected Range Printing in Journal
- Resampling Interpolation Options
- Automator Integration & Scripting
- Mouse Scrollwheel Support
- Mac on Intel Compatibility

New in AcqKnowledge 3.9.0 (release build date 11.10.2004)

OS Support: OSX 10.2-10.3.9

Hardware Support: MP150/100

- Lab Assistant GLP Package Option for MP150 Systems
- BONUS! Special Analysis Package — courtesy copy included under Transform menu
- Multiple Real-time Data Views
- Multiple Hardware Connections for MP150 Systems
- Merge Multiple Graph Files into One File
- Advanced Averaging (P300 functionality)
- Dual stimulation (2 per MP150)
- Overlap Segment mode
- Rewind and erase last segment(s)
- Markers – Automation & Enhancements
- Embedded Data Snapshots for Data Comparison
- MATLAB files Compatibility
- File Compression
- New Calculation Channels:
 - Fourier Linear Combiners
 - Adaptive Filter
- New Transformations:
 - Digital Filters - Adaptive Filter
 - Fourier Linear Combiners (FLC)
 - Nonlinear Modeling
 - Autoregressive (AR) Modeling
 - Power Spectral Density
 - AR Time-Frequency Analysis
 - DWT Wavelet Transformation
 - Principal Component Analysis
 - Independent Component Analysis
- Additional File Import/Export Options:
 - Igor Pro Experiment
 - PhysioNet
- Batch Files for Acquisition Automation
- Event Coding & Measurement Automation
- Cycle (Peak) Detector Interface
- Expression logic additions:
 - Source: Sample, Pi, True (1), False (0)
 - Function: and, equal, if (2-way), less, not, or, xor (exclusive), ceiling, floor, is infinity, conditional (3-way), not a number, floating point modulus, measurement
- Replay Mode to simulate acquisition
- QuickTime™ movie creation options
- Flexible print range: visible area, selected area, or entire file
- “Friendly” grid scaling & Adaptive Scaling
- Journal Preferences, new options
- Multiple undo