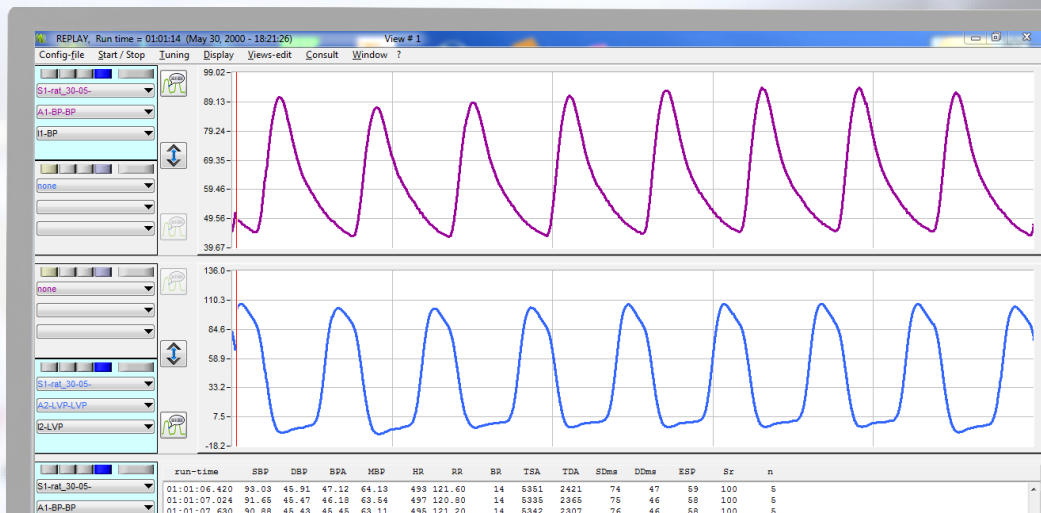


iox2

Realtime Data acquisition & analysis software

Cardiovascular | Pharmacology
Respiratory | Toxicology
Neurology | Physiology



IOX2 is a GLP compliant data acquisition software that allows researchers to acquire, analyze, view, and store data generated during an experiment.



Ease of use

- » For routine use by lab technicians
- » Multi-purpose
- » Alarms & alerts by email
- » Real-time display of analyzed data with calculated outcomes
- » Flexible data review
- » External device control
- » Automated protocols



GLP compliant

- » 21 CFR part 11 compliant
- » Integrates with emka SEND tools
- » GLP modules:
 - » Audit trail
 - » Electronic signature
 - » Access rights
 - » Study management



Proven

- » Used for 25 years and published in over 800 articles for acquisition and real-time analysis

Signal conditioners
easyDAC, usbACQ/AMP,
interface boxes

In vivo solutions
easyTEL+ implants,
emkaPACK non-invasive telemetry,
ecgTUNNEL

Ex vivo solutions
emkaBATH, emkaMYO,
isolated heart



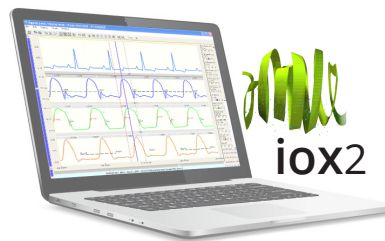
studyDESIGNER




auditCENTRAL




e-Sign







ecgAUTO



datanalyst



LIMS



Access, Excel

IOX2 captures up to **128 independent physiological signals simultaneously**, whether from your existing equipment or from emka TECHNOLOGIES' advanced systems. It supports multi-source data acquisition via AD boards, USB, or Ethernet, ensuring compatibility and flexibility.

SPECIFIC ANALYZERS FOR REAL-TIME PROCESSING

For each channel, an analysis module processes your data at a rate of 10 to 50,000 samples/second, to produce a list of predefined parameters.



Cardiovascular

- » ECG
- » Blood pressure & flow, pulse pressure
- » Left ventricular pressure
- » Pressure/volume loops pressure/distance
- » Ventricular wall thickness or segment length
- » Pulse Wave Velocity



Respiratory

- » Respiratory flow
- » Cough
- » Apnea detection
- » Lung resistance/compliance
- » Double chamber plethysmograph
- » Respiratory inductive plethysmography



Neuroscience

- » EEG
- » EMG
- » Power spectrum
- » Nerve

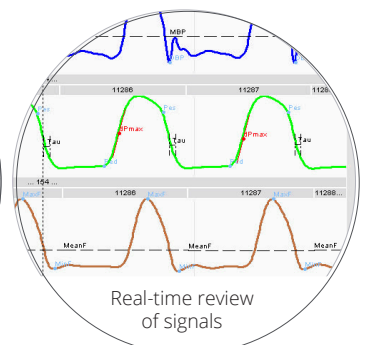
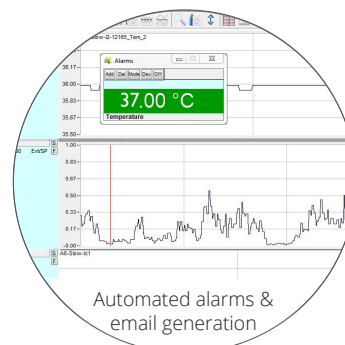
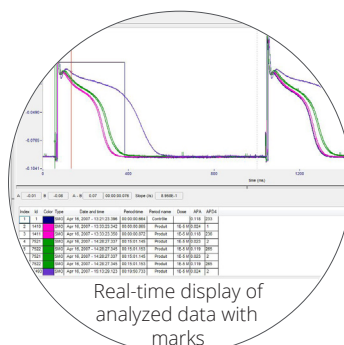
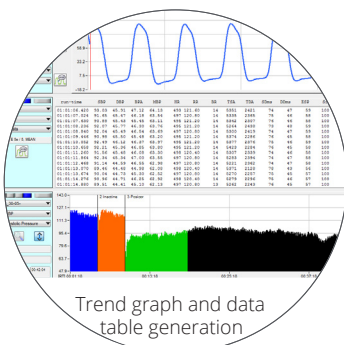
Other applications : Action potentials - Slow & rhythmic contractile tissue - Cystometry - Temperature etc.

IOX2 ensures seamless and structured data collection for every subject, delivering:

- » **Subject Files:** Including raw and calculated data, hardware configuration, event markers, and calibration parameters
- » **Text files:** Text-based output of calculated data, including full hardware configuration and logbook information.
- » **Synchronized Video files**

Collected data is easily exported and fully compatible with:

- » datanalist software for post-processing,
- » ecgAUTO software for advanced analysis,
- » Microsoft Excel or Access,
- » LIMS and external databases via secure connections.
- » XML and EDF export formats.

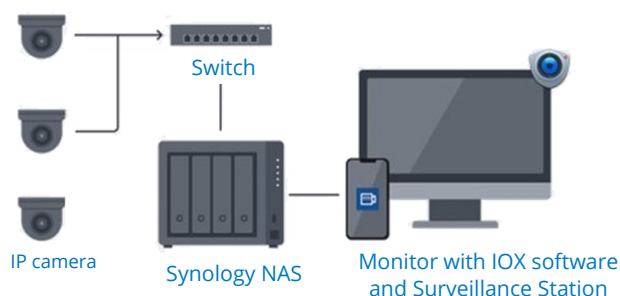




REAL-TIME VIDEO ACQUISITION SYNCHRONIZED WITH SIGNAL

IOX2 software video module records real-time video synchronized to biological signals, which is particularly useful for telemetry applications, activity monitoring or CNS studies:

- » Video signal accessed in real-time from IOX, or offline in review mode
- » Video streams dynamically linked and synchronized to iox raw data files
- » Several sites (subjects) can be linked to each camera
- » All resolutions supported (HD and Full-HD included)
- » Real-time compression, 1 to 30 frames/second
- » Color/infrared (acquisition by night)
- » Camera sound and movement managed
- » Compatible with various IP camera brands



VALIDATION

emka TECHNOLOGIES provides efficient and cost-effective validation assistance including:

- » Validation plan
- » User Requirement Specification
- » Risk assessment
- » Traceability matrix
- » Installation Qualification test scripts
- » Operational Qualification test scripts
- » IQ/OQ report
- » Performance Qualification
- » Validation report



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