

Research Ring

Lab on a Finger: EDA, Pulse, Temp, ECG

Research-quality Biometric Data in a Powerful, Wearable Device

The Research Ring is a revolutionary research platform that enables the capture of high-quality biometric data—EDA, PPG, Temp, ECG—on a single, small, user-friendly device.

Data is collected on an iOS device then automatically uploaded to the cloud. Data can also be streamed to *AcqKnowledge* in real time for in-lab studies or imported into *AcqKnowledge* asynchronously from the cloud or from a raw data file.

Longitudinal, Real-world, and Lab Studies



Applications

- Psychophysiology
- Lifestyle—stress, sleep, etc.
- Mental health and wellness
- User experience and ergonomics
- Consumer insights
- Media and communications
- Longevity and aging
- General health tracking

Use Cases

- Trauma and stress analysis
- Food and mood
- Pain assessment
- Classroom engagement
- Movie and TV engagement
- Meditation and mindfulness
- Extreme emotions
- Sleep monitoring
- Stimulus presentation and VR

Participants

- Individuals
- Small groups
- Large groups
- Geographically distributed groups

Comfortable, Adjustable Ring

Lightweight, adjusts to different finger sizes

Research-quality, Biometric Data

Collect EDA, PPG, Temp, and ECG plus derived signals

Collect Data Anywhere

Lab, work, home, school, in the wild

Customize Data with Selectable Modes

Select signals and sample rates

Bluetooth BLE Communications

Collect and stream to iPhone, iPad, or *AcqKnowledge*

Long Battery life

8 to 15 hours based on sampling rates

Integrates with BIOPAC Devices

Add signals for comprehensive physiology monitoring

Streams to *AcqKnowledge* Software

Real-time data viewing, access, and analysis

AcqKnowledge In-lab Video Integration

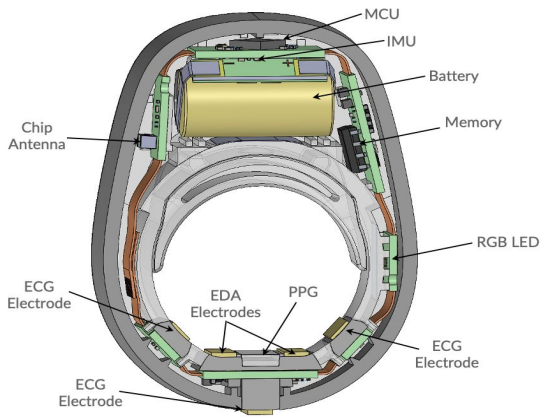
Add up to 8 Cameras and synchronize data in *AcqKnowledge*

Collect Data from Single or Multiple Participants

Connect 9 rings to a single iOS device or computer running *AcqKnowledge*
Start and host all sessions simultaneously using *AcqKnowledge*

Combine with Eye Tracking, fNIRS, VR, and Other Physiology Signals

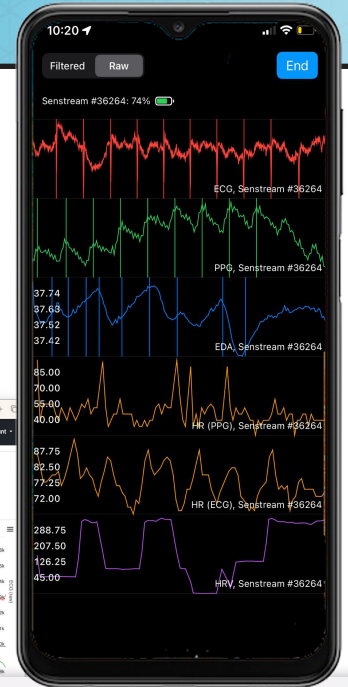
Research Ring—Lab on a Finger



Durable, gold-plated sensors

Capture high-quality data in an iOS app

Upload data to the cloud



Export and save raw data locally



Access & Download
Raw Data
Filtered Data
All Data

Stream data to
AcqKnowledge Software

Easily Collect, Transmit, Analyze Biometric Data

Electrodermal Data

The first ring form factor device that captures lab-quality electrodermal activity (EDA), enabling new types of research

Pulse

Capture photoplethysmography (PPG) data

Temperature

Body temp measured at the finger

Electrocardiogram

Available when second point of contact is made

Mobile and Cloud Apps

Start capturing data with just a ring and iPhone app, which seamlessly connects to the cloud

BIOPAC Integration

Use with AcqKnowledge Research Ring Software to record in real time or import into AcqKnowledge from the cloud

BIOPAC

Contact BIOPAC to request a demo!

(805) 685-0066

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