LifeSignals® | UbiqVue™

The Technology Behind UbiqVue Holter

A connected system built from purpose-designed silicon to cloud-based ECG analysis and reporting.

More Than a Biosensor. A Connected Holter System.

The chest-worn Biosensor is the visible point of ECG acquisition, but monitoring depends on the Biosensor, secure relay, cloud/data services, analysis, and clinician access working together.

CONNECTED SYSTEM ARCHITECTURE

WEARABLE BIOSENSOR



UbiqVue 1AXe **UbiqVue 2AYe**

- 2-channel ECG+event capture
- Wireless

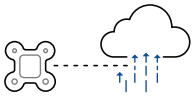
SECURE DATA RELAY



Holter App (primary)/ Relay Bridge (recovery)

- Encrypted wireless transfer
- Relay Bridge supports recovery when app relay is unavailable

CLOUD & DATA SERVICE



Secure ECG reception & storage

- Processing & system management
- Authenticated data access

ANALYSIS & REPORTING



ECG analysis workflow

- Technician review
- Physician-ready Holter report

CLINICIAN ACCESS



Web portal

- Secure access to data and reports
- User management & system settings

PURPOSE-BUILT BIOSENSOR DESIGN

Disposable & Scalable

Single-use, water-resistant Biosensors designed for practical deployment across ambulatory monitoring workflows.

Human Factor Design

Minimal skin preparation supports patient comfort, convenience and mobility during monitoring.

INSIDE THE BIOSENSOR: THE LIFESIGNALS CHIP

Clinical-Grade ECG

Enables continuous 2-channel ECG acquisition and signal handling

Power Efficiency & Onboard Memory

Supports extended monitoring and local ECG buffering

Filtering, Compression & Encryption

Optimizes data quality, reduces payload and helps protect patient data



Secure Wireless Transmission

Encrypted data transfer supports secure and reliable communication

Compact, Single-Use Design

Small, comfortable form factor that enables practical, single-use monitoring

Scalable Platform Flexibility

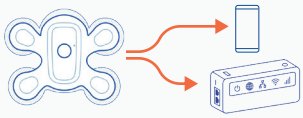
Designed to support future Biosensor configurations and clinical workflows

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Two Biosensor Configurations. One Connected System.

1AXe and 2AYe use the UbiqVue system architecture while supporting different patient and data-retrieval workflows.

	1AXe Up to 7 Days Patient-Return / In-Office Upload Workflow 	2AYe Up to 8 Days App-Based / No-Return Workflow 
Data Retrieval	Relay Bridge (in-office)	Holter App (primary, remote) Relay Bridge (secondary, in-office)
ECG Acquisition	2-channel ECG + event capture	2-channel ECG + event capture
Sampling	16-bit I 244.14 samples/sec I 0.2-40 Hz	16-bit I 244.14 samples/sec I 0.2-40 Hz
Connectivity	Wi-Fi I WPA2-PSK / CCMP	Wi-Fi WPA2-PSK / CCMP + BLE 5.2 AES-CCM 128-bit
Onboard Memory	168 hours	192 hours
Battery Life	Up to 168 hours	Up to 192 hours
Dimensions / Weight	105 × 94 × 12mm I 28 g	116.5 × 91.5 × 15.5 mm I 32 g
Ingress Protection	IP24	IP24
Event Button	Yes	Yes
Workflow Components	• Patient Kit & Guide • Paper Holter Diary • Relay Bridge	• Patient Kit & Guide • Holter App • Relay Bridge

Cloud-processed Clinical Data

The Biosensor acquires ECG data. Clinical analysis is performed downstream within the connected system.

Beat & Rhythm Analysis

- Ventricular beats
- Supraventricular ectopic beats
- AF/AFL burden

Heart Rate

- 30-300 bpm
- Minimum, maximum and average
- Overall and sinus

Heart Rate Variability

- RMSSD
- SDNN

Secure & Resilient Data Flow

Protect
Encrypted wireless data transfer.

Preserve
Onboard ECG memory buffers data when connectivity is interrupted.

Recover
Relay Bridge provides an alternate retrieval path when app relay is unavailable.

Control Access
Authenticated interfaces and role-based system permissions.

Explore the technology behind UbiqVue

Learn more about the LifeSignals silicon platform, our purpose-built wearable Biosensors, and the connected monitoring architecture.
Visit: lifesignals.com/technology

Consult your sales representative for local market clearance and availability.

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