



## Smart Watch Specifications

### THE VERISENSE SMART WATCH








The Verisense Smart Watch is a consumer-grade wearable sensor that allows for 3-axis accelerometer, PPG, ECG and body temperature capture. The raw sensor data is transmitted from the sensor via the participant's smart phone to a secure AWS server where it can be downloaded at any point. Additionally, integrated open source algorithms provide validated endpoints for use in clinical trials. Additional metrics can be calculated by running the raw sensor data through algorithms that aren't integrated directly into the system.

The Verisense Smart Watch has been integrated into the existing Verisense data collection infrastructure that has been used in clinical trials since 2019.

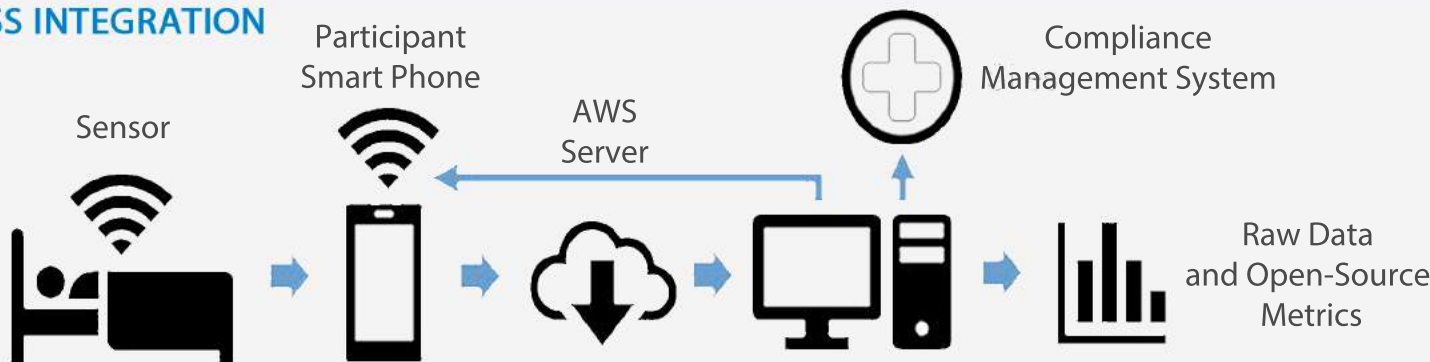
### USING THE VERISENSE SMART WATCH

Sponsors can leverage the Verisense Digital Health Panel to do Turnkey or Companion studies using the watch. If a more traditional approach is desired, Verisense will provide the technology, software, and services for sponsors to integrate this watch into their trials. For more information about these options, please contact Verisense Health.

### KEY BENEFITS

-  Consumer-friendly interface
-  Raw sensor data
-  Water resistant
-  24x7 data coverage
-  Lightweight
-  Remote management features
-  Guaranteed data integrity

### SEAMLESS INTEGRATION



## Key Features

- Raw data from multiple sensors
  - 3-axis accelerometer
  - PPG (Green and Red)
  - ECG
  - Body temperature
- Automatic data upload to the cloud
- Impact resistant
- Water resistant to 5ATM (150+ feet)
- ~ 14-day Battery Life



*Sponsors get the highest quality research-grade watch, while participants get all of the features expected in a consumer smart watch.*

## TECHNICAL SPECIFICATIONS

3-axis Accelerometer	Sample Rate: 31.25Hz		
	Range: $\pm 8g$		
	12 bit data output per axis		
PPG	Green	Red	
	Sample Rate:	25Hz	100Hz
	Recording Duration:	Adjustable	
	Recording Frequency:	Adjustable	
	Wavelength:	525nm	850nm
ECG	30-second sample on demand at 512Hz		
Body Temperature	Sample Rate: Variable		
	Margin of Error: $\pm 0.2^{\circ}C$		
Battery Life	~ 14 days (depending on usage)		
Connectivity	Bluetooth 5		
Integrated Metrics	Activity, Sleep, Heart Rate, and Non-Wear		



### ABOUT VERISENSE

Verisense Health, Inc. provides clinical data collection services through its Digital Health Panel and data from its Digital Biobank. Verisense Health is a spinoff of Shimmer Research, a leading manufacturer of wearable sensors for clinical, academic, and consumer research.