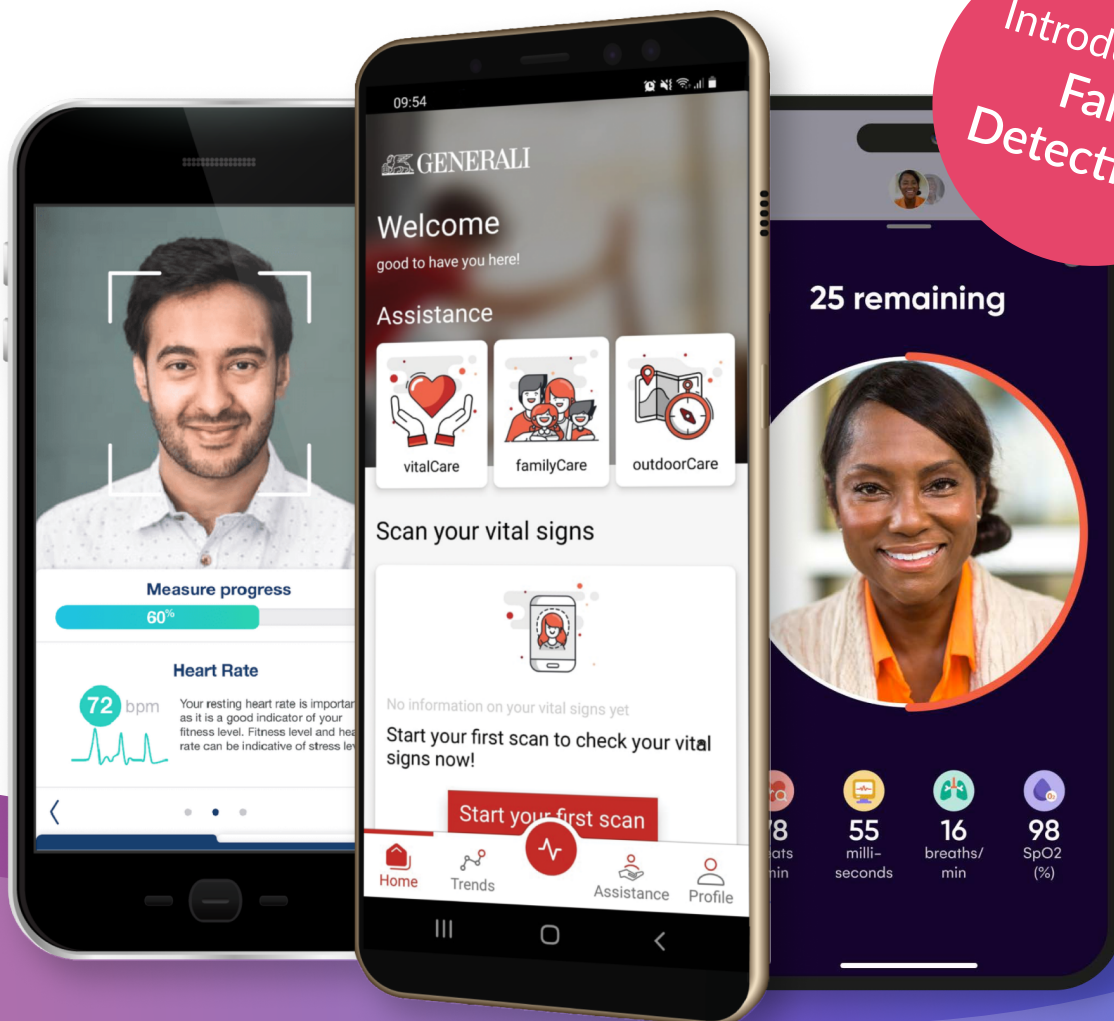


# Binah SDK (Software Development Kit)

Introducing:  
Fall  
Detection!



Examples of applications powered by Binah SDK

## Binah SDK (Software Development Kit)



### Health and Wellness Checks Anywhere

Binah SDK turns smartphones and tablets into health and wellness monitoring tools. Using our easy-to-integrate and UI-agnostic SDK, you can easily add spot or continuous health and wellness checks to your app or workflow and customize the experience to suit your clients' needs without privacy risks or concerns, as all processing is done on the end-user's device.

### The Business Need

In our fast-paced and vastly connected world, there is a growing need to measure health and wellness in a way that is simple, accessible and affordable. To foster a business flow that maximizes your ROI, Binah.ai's SDK offering contains all that is required to support and easily scale a variety of use cases, including underwriting, telehealth, chronic disease management, virtual trials, wellness programs, employee wellness, critical operator wellness monitoring, and so much more.

### What is Binah SDK?

Binah.ai's Software Development Kit (SDK) powers your existing application and enhances your user experience with the capacity to measure vital signs and mental stress indicators, take bloodless blood tests, and detect falls.

For spot checks, end users simply look at their smartphone camera while the SDK analyzes a short video stream. For continuous checks, which also include continuous fall detection, end users comfortably wear the Polar Verity Sense™ and the SDK analyzes continuous PPG signals transmitted via Bluetooth®.



ISO  
13485:2016



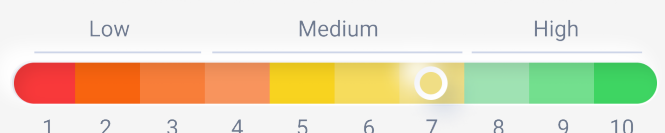
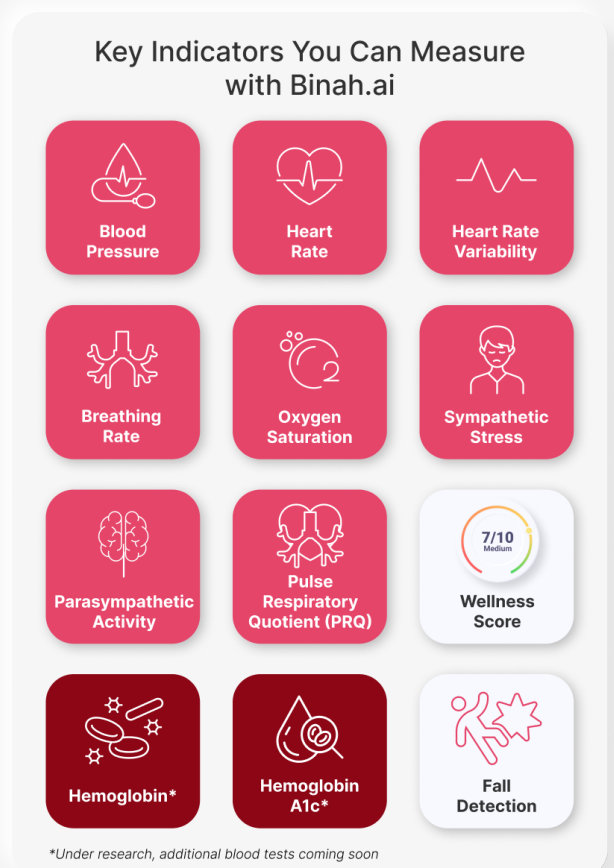
HIPAA  
COMPLIANT



GDPR  
Representation  
CERTIFIED ✓ 2023-04-18

### Binah Wellness Score

Enable clients to get one simple score that reflects general wellness levels in just 60 seconds. The Binah.ai Wellness Score is based on the biomarkers measured by Binah.ai.



# Integration Options

Binah.ai offers SDK libraries for the following languages and platforms:

## Android native SDK (Java/Kotlin/React Native/Flutter)

- Android API version 27 and above
  - Camera with a supported frame rate of 30 fps
  - CPU-ARMv8-A
  - The device must have at least 3GB of RAM
- Note: the list of supported devices is continually updated

## iOS native SDK (Java/Kotlin/React Native/Flutter)

- iOS devices running iOS 14 and above iPhone 8 and all devices released afterward
- iPad (6th generation) and all devices released afterward

## Web SDK (Javascript)

### iOS devices

- Safari browsers with iOS version 15.2 or above iPhone 8 and all iPhone devices released afterward

### Android devices

- Chrome browsers version 95 or above
- Camera frame rate 15 fps and resolution of at least 640x480
- CPU-ARMV8-a

Note: the list of supported devices is continually updated

## Benefits

**Measurement results within seconds** - End users can get their heart rate results in approximately 10 seconds and the other vitals shortly after.

**Demographic data not required** - The technology calculates measurements based on an analysis of a video stream without any identifiable features and is agnostic to skin color. While input of weight, age and sex is not required, it significantly improves the accuracy of results.

**Unique Edge Architecture** - All algorithms run on the device to eliminate cloud costs and friction while ensuring stable performance regardless of internet connectivity or speed.

**Easy integration and 24/7 human support** - The simplest integration with comprehensive documentation, reference applications, and our customer success team available to support your needs at anytime.

**No Privacy Concerns** - Binah SDK provides you with full ownership over end user data to safeguard your end users' privacy and facilitate a smoother GDPR/HIPAA accreditation path.  
**Binah.ai does not have access to end-user data.**

**Spot and Continuous Checks** - Versatile health check options to suit your organization's needs and enable health and wellness checks anywhere.

**Various SDK Types** - iOS and Android libraries in native languages and cross-platform frameworks for mobile application development.  
C# library for Windows Applications.  
Javascript library for Web applications.

**Multiple pricing models to best suit your business needs** - Choose from our "per measurement" or "per device" license options and scale effortlessly.

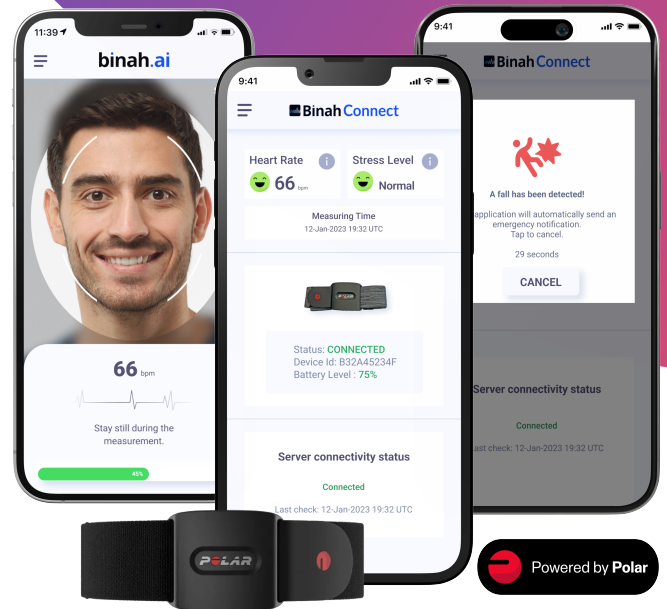
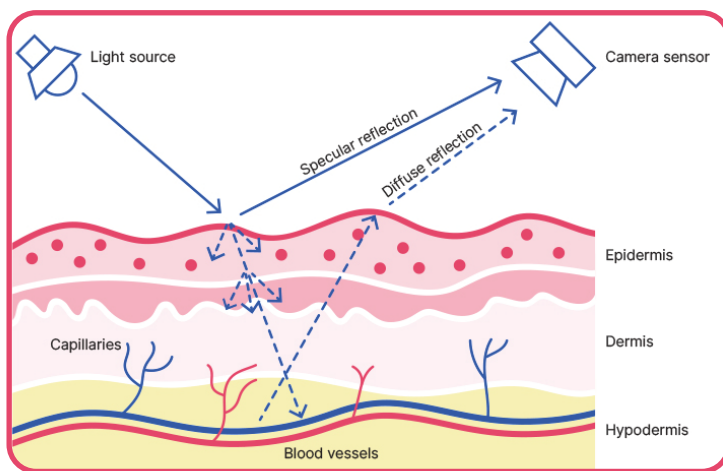
**UI/UX Agnostic** - Enjoy total control over UI/UX design and support for both portrait and landscape orientations.

**Supports Equitable Access** - Enable anyone to access health and wellness with technology that is agnostic to sex and supports all Fitzpatrick scale skin tones.

# The scientific baseline enabling Binah SDK

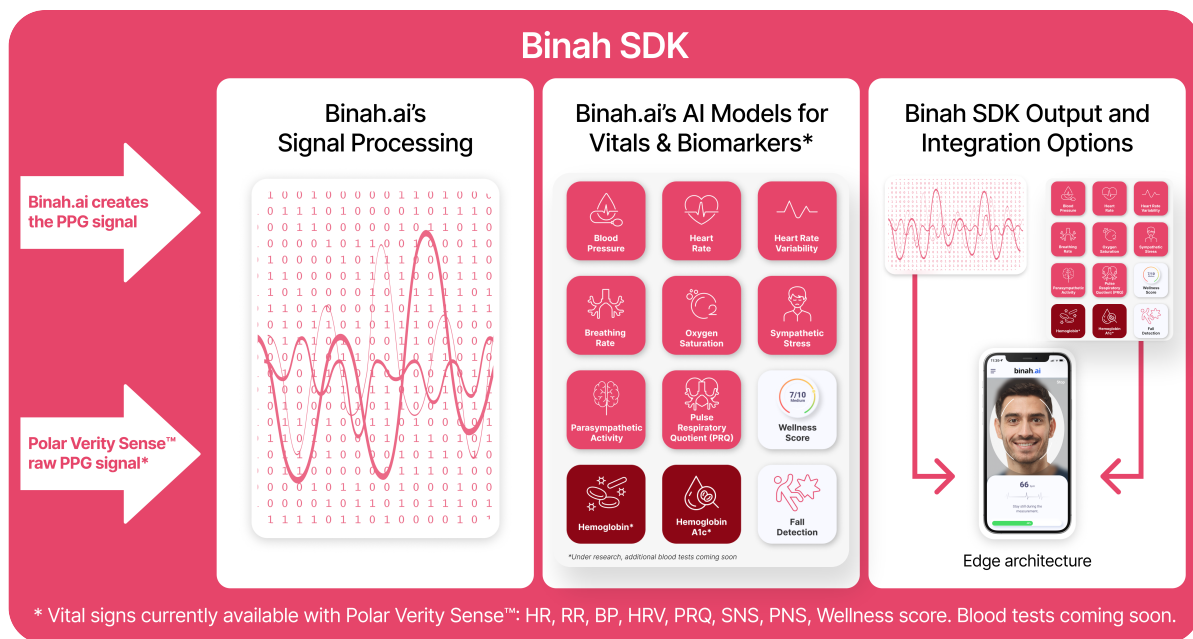
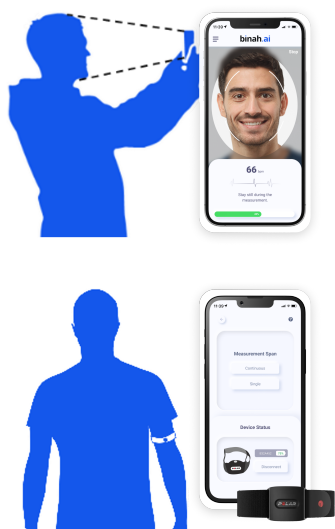
Binah.ai's SDK is based on photoplethysmography (PPG). PPG is a optimal technique that has traditionally been used in medical devices, like finger pulse oximeters, to measure changes in light reflected from the vessels near the skin's surface. This is done by emitting light into the tissue on the surface of the skin and subsequently detecting the light transmitted or reflected back. The measured changes enable the assessment of various physiological characteristics.

## Photoplethysmography (PPG)



At Binah.ai, we took PPG technology a step further and developed PPG-based, contactless face scans, which enable everyday cameras to measure these variations in light with the same level of accuracy without requiring contact with the skin.

For cases where continuous monitoring is needed, we also enable continuous checks using the Polar Verity Sense™ by analyzing continuous PPG signals that are continuously sent to Binah SDK via Bluetooth®.



- Face measurement results are sent to the app
- Binah.ai has no access to end user data
- Continuous monitoring measurements can be sent directly to the customer's cloud

Eager to  
learn more?

Visit our website <https://www.binah.ai>  
or contact us at <https://www.binah.ai/contact/>

**binah.ai**  
Health Checks Anywhere