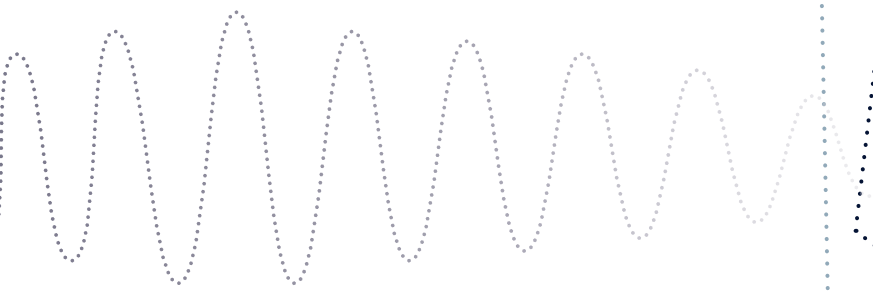


*Ready-to-use AI-Powered  
Digital Healthcare Applications*  
**Contactless, Video-based  
Vital Signs Monitoring**

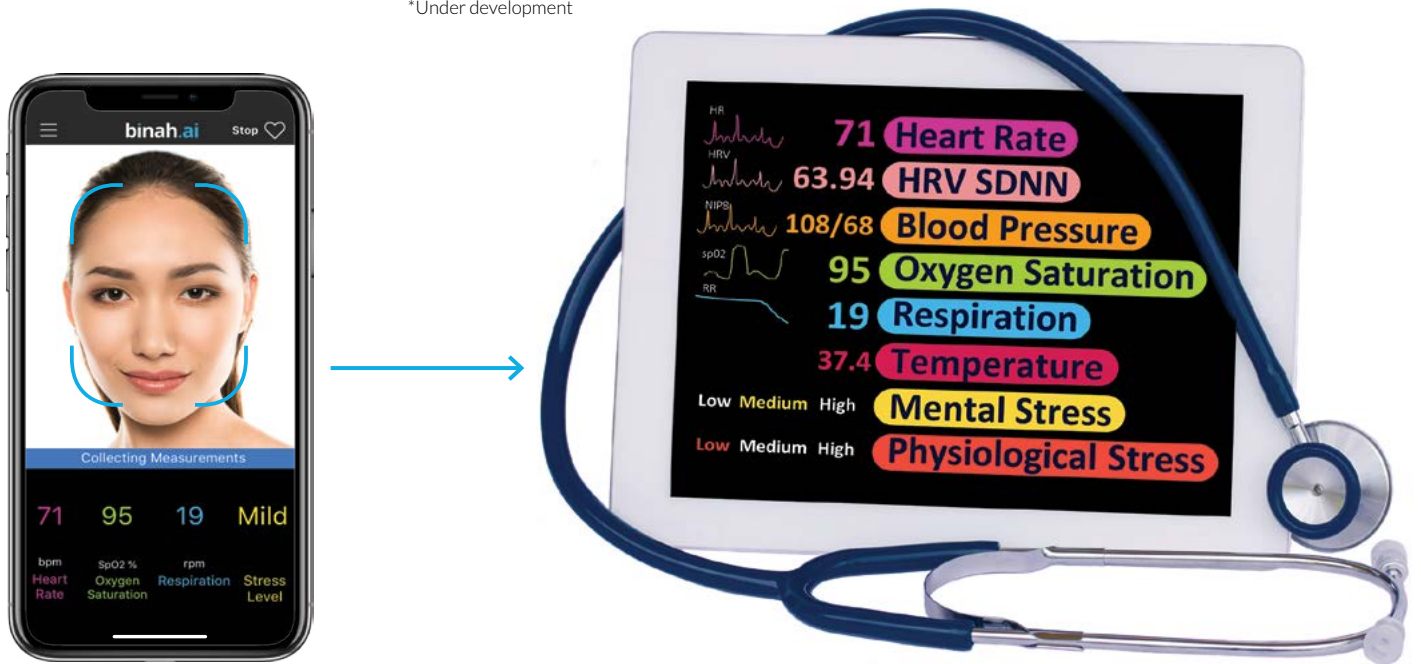


## Transform Any Camera-equipped Device into a Vital Signs Monitor

Binah.ai's solution, Binah.NOW, offers its customers an unparalleled advantage by transforming any camera-equipped device (smartphone, tablet, laptop, etc.) into a health and wellness monitoring solution. Either remotely or on-premise, Binah.ai's video-based, medical-grade solutions remove the need for wearables and provide vital signs measurements such as:

- Heart Rate
- Heart Rate Variability (HRV)
- Mental Stress
- Oxygen Saturation
- Respiration
- Temperature\*
- Blood Pressure\*
- Blood Alcohol Level\*

\*Under development



Estimation of the heart rate with video consists of the following steps:



Face detection



Face tracking



Motion compensation



Illumination normalization (removal of external sources)



Skin region of interest selection

### Scientifically Backed

The heart rate estimation algorithm includes creating a remote photoplethysmography (rPPG) signal using a live video feed and a unique, superior methodology.

Binah.NOW's stress level measurement is based on Baevsky's and US/European Index level measurements (globally approved). Each use case relies on medically peer reviewed research, based on the ability to retrieve continuous, accurate heart rate (HR) measurements using video feeds in real time.

Binah.ai's clinical decision support system (CDSS) provides physicians and other health professionals with clinical decision-making insight to improve the quality of patient care.

### Delivery

Binah.ai's easy-to-integrate solution is available as an SDK for Android and for iPhone or as an end-to-end white label application.

## Selected Use Cases



Online and  
Telemedicine



Wellness and  
Preventive Medicine



Virtual Trial  
Monitoring



Queue  
Management



Chronic or Post Surgery  
Patient Monitoring



Stress-free Children's  
Vital Signs Monitoring

## Health Monitoring with Medical-grade Accuracy



Heart Rate Accuracy:  
**Binah.ai:**  $\leq 2$ bpm **Market:**  $\geq 3-4$ bpm

## Outstanding Accuracy with Signal Processing and AI

Binah.ai achieves outstanding accuracy by using a revolutionary approach that combines signal processing and machine vision, coupled with a proprietary mathematical back-end, machine and deep-learning framework delivering best-in-class results. The signal processing prepares the data for machine learning and artificial intelligence. Accelerating the speed of data processing, it significantly reduces false positives, delivering results for digital healthcare analysis with **outstanding accuracy**.



Increases signal-to-noise ratio (SNR)



Eliminates outliers



Creates a better overall data set



Creates clean data



Streamlines data volume



Extracts new features



Analyzes data sets of any size

## Success Story

Sompo Japan Nipponkoa Himawari Life Insurance, one of Japan's largest insurance companies, aims to develop new healthcare services that enable customers to understand their own health status (such as stress) and get advice. Sompo uses Binah.ai's technology: data format-agnostic, signal processing, machine learning, and proprietary algorithms analyzing existing medical and health data. [https://www.sompo-hd.com/~media/hd/en/files/news/2019/e\\_20190116\\_1.pdf](https://www.sompo-hd.com/~media/hd/en/files/news/2019/e_20190116_1.pdf)

## AI Your Future Today

Binah.ai is shaping the future of Artificial Intelligence (AI) by simplifying and accelerating AI adoption with enterprise-ready apps. By delivering on our vision of “AI Your Future Today,” we allow companies to focus energy and resources on creating new, value-added services powered by proven AI apps rather than developing in-house capabilities. At Binah.ai, we apply our world-leading expertise in machine and deep learning, signal processing and AI, addressing high-value problems at major clients around the world, in fields such as Insurance, Digital Healthcare, Industry 4.0 Manufacturing, Capital Markets, and more. For more information on Binah.ai solutions, please visit [www.binah.ai](http://www.binah.ai) or write us at [info@binah.ai](mailto:info@binah.ai).



## Cool Vendor in AI Core Technologies 2019

August 2019 | <https://www.gartner.com/en/documents/3956729/cool-vendors-in-ai-core-technologies>

## Industries We Empower



Digital Healthcare



Wellness



Insurance



Automotive



Manufacturing



Capital Markets

## Built for Businesses

- **99.99% availability:** Complete redundancy ensures continuous operations
- **Best-in-class maintenance:** Perpetually automated, up-to-date models ensure the best results, consistently
- **Customized for your needs:** Use Binah.ai’s data science team to solve your specific challenges
- **Enterprise-grade:** Built-in security and data protection ensure continuity and reliability

## Excellence Center

For a more customized experience

Binah.ai out-of-the-box use cases answer most critical business questions; the underlying technology can be applied to any industry. Our Excellence Center experts partner with your organization to define your specific challenges and create dedicated solutions that provide unique, actionable business insights.

## Leveraging AI Has Never Been Easier

Out-of-the-box applications enable organizations to solve almost any challenge without spending millions on custom-created research, delivering:

- Actionable results - With a few simple steps and some data, whether customer’s or public
- At-the-ready use cases - With the simple selection of appropriate use cases that solve specific challenges
- Rapid deployment and actionable results - Requires no corporate infrastructure to derive its answers

**Easy Integration | Flexible Delivery | Runs on Cloud or on the Edge | Receives Multiple Data Sources | Full API**

## Why Binah.ai Ready-to-use Applications?



Out-of-the-Box



Outstanding Accuracy



Unprecedented Stability



Low Investment



Quick Integration



Exceptional ROI

## Awards



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