



# Commercial Brochure 2023

# Introduction

## Transforming the way we monitor our vital signs

It is widely acknowledged that constant monitoring of vital measurements is crucial for understanding body's basic functions and health condition.

However, the conventional means of vital signs monitoring are often costly, inconvenient, and time-consuming.

## Solution: Staying healthy with NervoScan

Nervotec's Remote Photoplethysmography (rPPG) technology allows **non-invasive and contactless** monitoring of vital signs remotely and accurately. As a software-based solution, it works with any camera-enabled device, transforming these devices into a screening tool simply by taking a selfie video.



 **Heart Rate (HR)**  
Number of times your heart beats in a minute (measured in beats per minute, or bpm)

 **Respiration Rate (RR)**  
Number of breaths you take per minute (measured in respirations per minute, or rpm)

 **Heart Rate Variability (HRV)**  
Variation in the time intervals between heartbeats (measured in ms)

 **Oxygen Saturation (SpO2)**  
The percentage of oxygen bound to haemoglobin in your blood

 **Blood Pressure\*** (in development)  
The measurement of a person's blood pressure, expressed as systolic blood pressure and diastolic blood pressure readings.

# Our Core Technology

## What is Remote Photoplethysmography (rPPG)?

rPPG is an optical technique used to measure physiological parameters by capturing changes in light absorption and reflection from the face from videos. Based on the fundamental principles of photoplethysmography (PPG), subtle color variations on the face (skin) are processed to measure blood volume changes for vital signs estimation.



### Video Acquisition

Record selfie video with no additional hardware costs



### Facial Region of Interest (ROI) Extraction

Precise facial areas are identified, extracted and tracked.



### Signal Extraction & Processing

Advanced algorithms for noise removal and estimation of vital signs.



### Data Visualization

Enable personal health monitoring and tracking

## Why NervoScan?



### Contactless

No need for physical sensors - vital signs can now be measured with your camera-enabled device anytime, anywhere.



### Simple & Customizable Integration

Readily packaged mobile SDK for both iOS and Android operating systems. Adaptable with online and offline network capabilities



### Clinically Validated

Collaborations with large hospitals across diverse demographic profiles with varying skin tones



### Privacy Preserving

No personally identifiable information, like images or videos, are stored during vital signs extraction



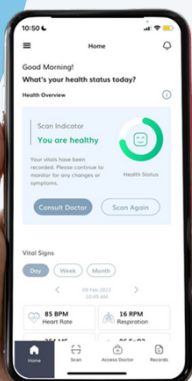
### Comprehensive

Accurate real-time physiological measurements provide a holistic view into end-users' wellbeing



### Scalable

Adaptive to different stages of value chain.



# Our Use Cases

## Reinventing the way we engage with our health

NervoScan offers a personalized and participatory approach to manage health. Our innovative technology offers a cost-effective, and intuitive solution for active well-being engagement.

### 1 Insurance

NervoScan has been successfully integrated with players in the insurance industry. Our customers can use NervoScan to:



Drive **user engagement** by promoting daily rPPG scans



Incorporate into any existing **gamified and incentivization elements**.



**Customize recommendations** to end-users with results from their scans



**Risk stratification** and other data-driven decisions can benefit from the vital signs obtained from NervoScan.

### 2 Telehealth, Personal Wellness

Our telemedicine partners have implemented NervoScan to their platform as a value-added service and have seen the following benefits:



**Pre-screening** to direct end-users to appropriate platform services



**Retain user engagement** while waiting for a consultation



Provide **vital signs information** to be saved in their in-app health profiles



# A contactless way to get your vital signs.



## Anytime, anywhere.

Ready to transform your business with  
NervoScan?

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