NTT AT

Reference Exhibit

Compact Wearable Blood Flow Meter that Works With a Smartphone

Blood Flow Meter

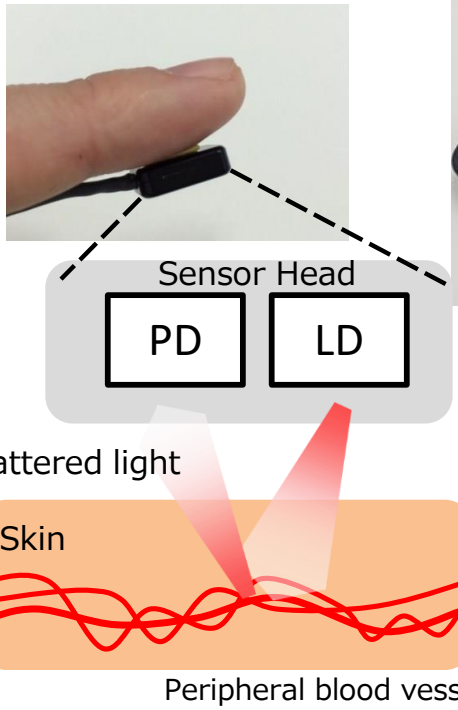
Compact wearable blood flow meter, which can detect peripheral blood flow in real time and visualize data on a smartphone, is developed.

Features

POINT 1

Visualized on a smartphone

A laser beam is irradiated onto the skin surface and peripheral blood flow is calculated from the frequency spectrum of the scattered light. Blood flow can be monitored in real time on a smartphone.



POINT 2

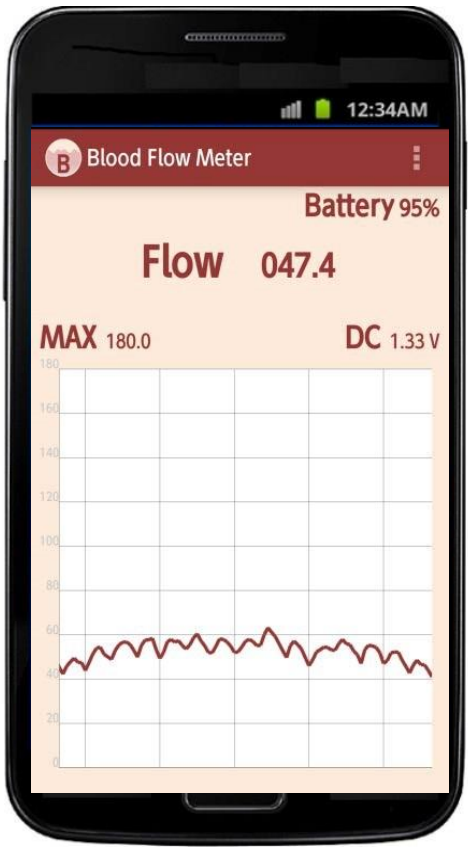
Compact and Power Saving

Small size and low power consumption make it possible long-term and continuous monitoring while being carried.

POINT 3

Easy Processing od Measurement Data

Measurement data can be downloaded from the smartphone as a CSV file.



*This product is for research purposes. It is not a medical device.

Specifications

Measurement principle		Laser Doppler Method (Fiber-less)
Dimensions/Weight	Head	13.5 x 10.5 x 4.0mm / 6g (harness included) Harness length 300mm
	Body	40×30×12.5mm / 12.5g
Power		Built-in lithium battery (USB charging)
Battery usage tim		Approx. 17 hours (depends on settings)
Blood Flow Rate Units		Relative value: Relative value corresponds to the product of the volume and speed of blood in the measurement area
Data transmission		Bluetooth Low Energy
Data display apps.	OS	Android 6.0 or higher
	items	Blood flow, reflected optical power

【Miscellaneous】

- **This product is not a medical device.**
- The smart phone for data visualization is not included. Please prepare a smart phone yourself.
- Please use a smart phone with Android version 6.0 or higher (Bluetooth Low Energy compatible).
- Depending on the smart phone model used, this product might not work even with Android 6.0 or higher.
- Measurement values may fluctuate depending on the pushing location and pushing pressure of the sensor head. It is important that the sensor head makes contact with a consistent pressure.

Applications

The blood flow sensor application would be expanded in the field of healthcare, beauty, medical support, or entertainment.

Healthcare

- Blood circulation monitoring, Stress check

Beauty

- Skin care, Cosmetics fit check

- Features and specification may be subject to change without notice.
- Catalog descriptions: as of September, 2021

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