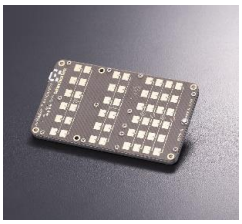
miRadar® 8-VSM《Card》

SakuraTech
Human-friendly Sensors Anytime™

Vital Sign Monitor (VSM) Evaluation platform for Card

OVERVIEW

- Used miRadar® 8-EV2 <Card> Radar sensor
  - Business card size
  - 24GHz FMCW MIMO radar
  - VSM signal processing on PC
- Simultaneous measurement of multiple people Heart and Respiration rates
- Vital data is overlayed on camera picture, useful target position.
- Algorithm development platform is available for user development and used application development and flexible user settings.

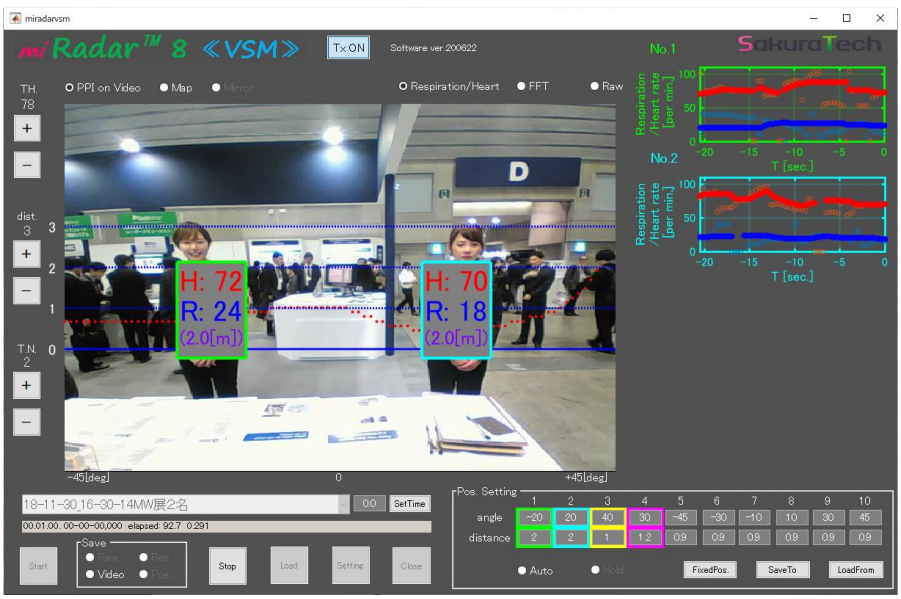


miRadar 8 <Card>

miRadar 8-VSM <Card>

VSM Evaluation Software

Both Vital and Camera video data can be stored in the connected PC. The stored data can be replayed and reused to set several thresholds to see the best setting at offline condition.



ALGORITHM DEVELOPMENT PLATFORM

- SDK: Python code for user Algorithm development, B279-SW011
- SDK: Opened some MATLAB source code of Eval. Software, B279-SW009

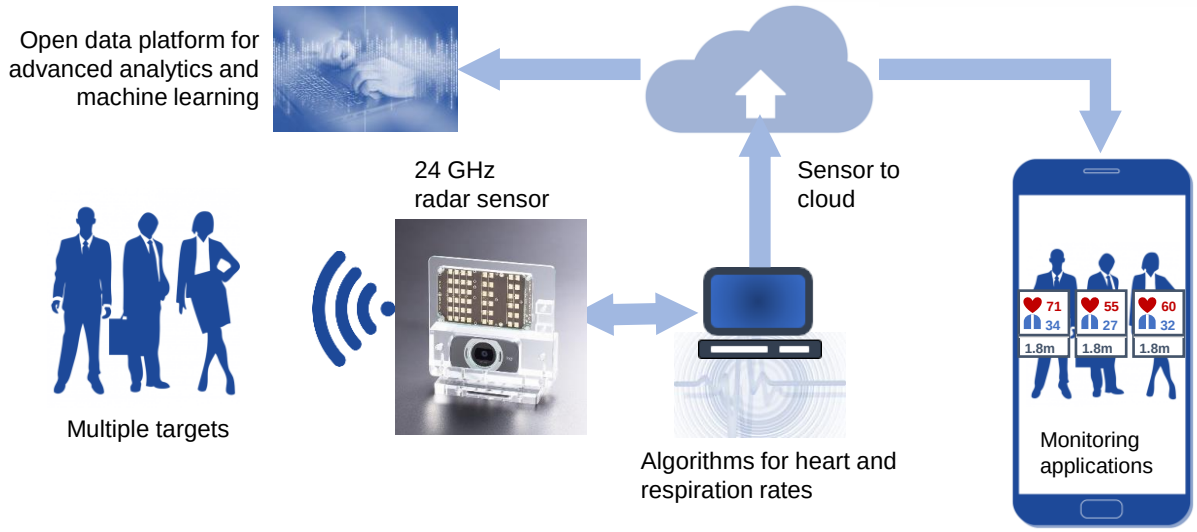
Radar VSM Functions

- Contactless sensing even when Blankets and clothing exist
- Measurable vital data of multiple people with Azimuth / Elevation positions at same time
- 24/7 monitoring

APPLICATIONS

- Development of an advanced analysis tool using the algorithm development platform.
- Consideration and examination to find best setup for Heart and Respiration rates data collection.

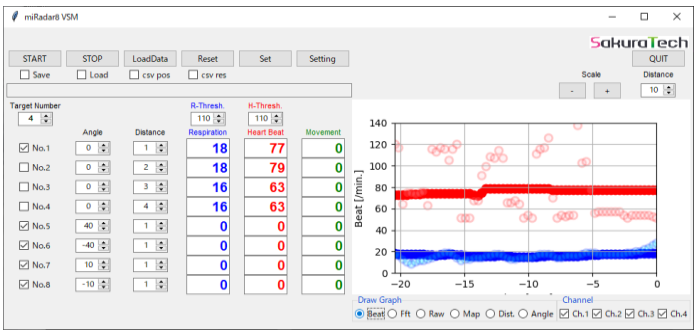
VSM monitoring system (example)

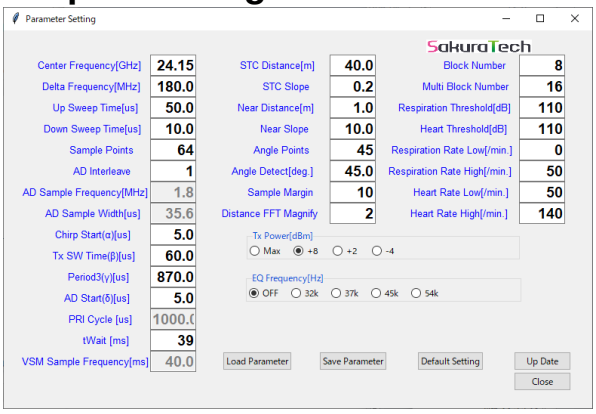


- Direct connection and control between cloud and the eval. hardware.
- Data logging for either local sensor data (CSV format) or IoT cloud storage
- Sensor data with time stamp and device ID data
- Customizable algorithms

Software Development Kit for Vital Sign data processing B279-SW011

- User algorithm development tool (Python)





Ordering Number

Product Name	Product Number	Comments
miRadar®8-VSM <Card>	B279-01-VSM	VSM Evaluation hardware bundled B279-SW007
VSM Evaluation software	B279-SW007	VSM Evaluation software
VSM SDK (Matlab)	B279-SW009	SDK for VSM. Opened some source code for MATLAB / Windows
VSM SDK (Python)	B279-SW011	SDK for VSM. Python code for user development
VSM RRI analyzer	B279-SW014	RR Interval Analyzer SDK

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