

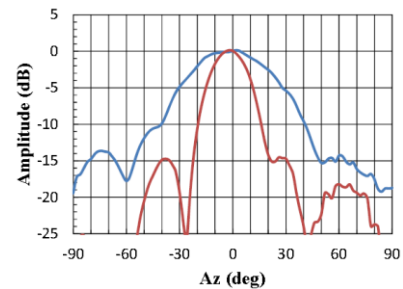
# Millimeter Wave Vital Sensor

This module is the 24GHz Doppler radar sensor which can measure heartbeat and breathing. For the radar technology is adopted to the module, non-contact, highly precise and high reliability vital measurement sensing can be achieved.

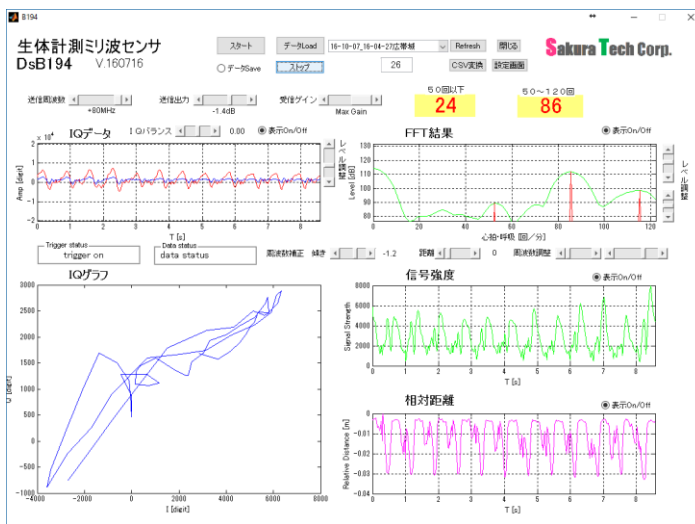
Connecting the module with Windows PC by USB cable, and using MATLAB software, enables the evaluation experiment of vital measurement easy.

## Specification :

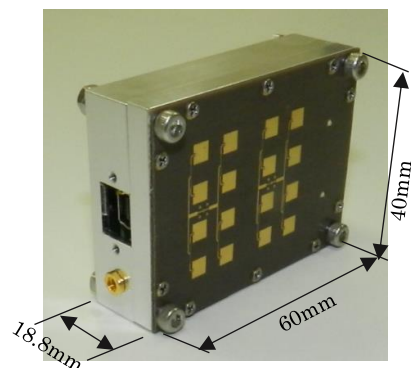
- Radar method CW 24GHz (ARIB-STD-T73)
- Transmission frequency 24.07 - 24.23GHz (variable 5 stages)
- Antenna Patch antenna (transmit: 1 receive: 1).
- Transmission output 0 - 9dBm typ. (variable 8 stages)
- Antenna gain 12.6dBi typ.
- Antenna pattern The following figure
- Module size 60 mm (W)x 40 mm (H)x 18.8 mm (D)  
(Prominence not included)
- Interface USB2.0 and mini B connector
- Power supply DC+5V, 0.25A (max) (USB Bus power)
- Operating temperature -20 - 60C



Antenna Pattern



MATLAB Software



Outward appearance picture

Note) Appearances, specifications, etc. of products are subject to change for improvement without prior notice. When exporting the product, confirm the country of destination, application, and customer. If any of them falls into an objective requirement, please take the necessary procedures, including export certificate application.