



February 3, 2021
NEXTY Electronics Corporation

**NEXTY Electronics Invests in Smart Radar System,
a South Korean Startup With World-class Image Radar Technology**

NEXTY Electronics Corporation (HQ: Minato-ku, Tokyo; President & Representative Director: Atsushi Aoki; hereinafter referred to as "NEXTY Electronics") invested and entered into a capital and business alliance on December 15, 2020 with South Korean Smart Radar System Inc. (HQ : Pangyo, South Korea; President & CEO: Yonghwan Kim; hereafter "SRS Inc."), a company that develop, manufacture, sell low-cost, high-performance image radar modules.

[Background and Purpose]

Currently, there are several social issues, such as watching over the elderly people living alone and children, solving the labor shortage result from the decrease in the working-age population, and ensuring safety in a fully autonomous driving society. A very important element of the technology that solves these issues is 'sensor'.

However, due to being easily affected by light levels, privacy concerns and other issues, sometimes it is difficult to make full use of sensors like LiDAR, ultrasonic and image sensors in certain places and situations. On the other hand, millimeter-wave radar can detect the position, distance, and speed of an object by irradiating the object with radio waves and detecting its reflection, so it does not depend on the environment and protects privacy of people and objects. However, high-performance millimeter-wave radar has the problem of high cost.

Through this capital alliance between NEXTY Electronics, which has a broad domestic and foreign sales network and wealth of knowledge regarding semiconductor technologies, and SRS Inc., with its advanced antenna design and signal processing technologies, NEXTY Electronics is now able to provide high performance radars with high resolution which is also low-cost and compact to various customers.

SRS Inc. possesses a variety of technologies required for radar development, from hardware design and manufacturing, signal processing to software and algorithm design based on deep learning by machine learning. In addition, by visualizing millimeter-wave radar data, It possesses a unique technology that can perform "recognition" in addition to conventional object detection, which enables human posture recognition, vital signals, etc. with high accuracy.

[Application examples]

- Watching systems: watching over elderly people and child in private spaces like bath and toilet
- Security systems: intruder detection
- Robotics: smart factory, AGV autonomous travel, collision avoidance of unmanned robots
- Collision avoidance of vehicles, In-cabin, traffic monitoring, pedestrian detection, drones, weapon detection

Applying SRS's advanced technology, NEXTY Electronics provide support appropriate for customers' needs from the development stage to mass production, and contribute to the creation of a safe and secure society by solving various social issues.



SRS Sensor Module, Finished Product





[About Smart Radar System Inc.]

Established in 2017, SRS Inc. is a manufacturer of millimeter wave radar modules and related products.

It is contributing to the realization of a better society with millimeter-wave radar modules that utilize extremely high antenna design technology and advanced signal processing technology based on deep learning. In addition, It has won the Korean Prime Minister's Award and have been selected as future unicorn and baby unicorn companies.

Corporate Name : Smart Radar System Inc.
Headquarters : 7F, Innovalley A, 253, Pangyo-ro, Bundang-gu, Seongnam-si,
Gyeonggi-do, 13486, South Korea
Number of Employees : 45
Representative : Yonghwan.KIM
Business Description : Development, manufacturing, and sales of millimeter-wave
modules

For more details, please check the dedicated page on our 'e-NEXTY' website.

<https://www.e-nexty.com/static/articles/srssystem>

[For inquiries concerning this release]

NEXTY Electronics Corporation
Public Relations team, Corporate Planning Dept.
Tel : 03-5462-9666
E-mail address : nexty_contact@nexty-ele.com

