Focus Systems Corporation today announced that it has started provision of an augmented reality (AR) system that combines AR glasses and its FCS1301 beacons (thin-type, Bluetooth®-based sensor devices).

With the AR system provided by Focus Systems, when a user wearing AR glasses comes within the approximate 2- to 3-meter radius of an FCS1301 device, an embedded sensor in the AR glasses receives a radio signal transmitted from the FCS1301 and reproduces movies stored in the AR glasses.

By changing the content of the movies, the AR system can be applied in a variety of settings, from detecting danger to entertainment. The MOVERIO BT-300/BT-350 AR glasses models by Seiko Epson Corporation, with whom Focus Systems has coordinated and conducted repeated product verification since 2015, provide a stable use environment when used with this AR glasses.

How the AR System Works
(1) User wearing AR glasses approaches the FCS1301 device.

Epson MOVERIO BT-300 AR glasses equipped the AR system of Focus Systems

* FCS1301 is a device recommended for the Epson MOVERIO BT-300/BT-350 models.

(2) When the user comes within a 2- to 3-meter radius of the device, the embedded sensor reacts to the FCS1301 device.

FCS1301, our thin-type beacon
Length: 46 mm  Width: 24.5 mm
Thickness: 3.5 mm  Weight: 5g

(3) Movies stored in the AR glasses are reproduced on the spot.

When multiple FCS1301 devices are installed within in a short distance, the user can selectively reproduce movies that he or she would like to view.

Movies stored in an SD card are reproduced.
Applications

(1) Ensuring security of persons working in hazardous areas such as construction sites (refer to the use case indicated below).

(2) Facilitating operations at assembly plants, etc. by automatically displaying design documents and work instructions.

(3) Entertainment activities, such as collecting series of stamps and treasure hunting games, at various events.

(4) Explanation of exhibits at art galleries and museums.

(5) Provision of tourist information for foreign tourists visiting Japan.

(*) Photos provided by Epson Sales Japan Corporation.

Safety Management System by Meidensha Corporation Using Our AR System

Meidensha Corporation has adopted the Focus System AR system and FCS1301 devices to its safety management system.

In the system, the AR glasses react to FCS1301 devices installed in workplaces in advance, reproducing movies in accordance with the surrounding circumstances. This allows workers wearing the AR glasses to detect hazardous points and recognize on the spot what types of hazards exist. Moreover, the physical burden on workers can be reduced by attaching the AR glasses onto helmets.

(*) Quoted from a news release dated June 19, 2017 by Meidensha Corporation

News release on this matter: http://www.meidensha.com/news/news_03/news_03_01/1223956_3190.html
[EPSON AR Glasses MOVERIO BT-300／BT-350]

MOVERIO BT-300: Movies can be viewed by wearing a light-weight headset (the headset portion weighing 69 grams) like glasses. Employing optical technologies, the see-through type device makes it possible to enjoy movies while maintaining vision on user surroundings.

MOVERIO BT-350: Building from the BT-300 base, structural changes have been made to the temple and nose pad of the device to enhance durability. Users can use the BT-350 comfortably without concern for size or regardless of wearing glasses or not.

[FCS1301, a thin-type beacon for business use]

FCS1301 is an energy efficient, thin-type sensor device based on the Bluetooth® Smart standard.

The product is available for a variety of uses ranging from daily life to business support, including attaching it to valuables like employee identity cards and keys to prevent loss, checking user identity at free address offices, supporting marketing operations such as understanding customer flow, and coordinating with wearable devices.

Website of FCS1301, a thin-type beacon for business use: https://www.fcs-mimamori.com/english.php

For more information, please contact:
Business Creation Department
Focus Systems Corporation
E-mail: wireless-support@focus-s.com
https://www.focus-s.com/focus-s/english/