

First in the world***Announcing the start of sales of the Smart Digital Tuner Worldwide, a tuner for ships capable of receiving terrestrial digital broadcasts all over the world**<http://www.kyokuyoe.co.jp/english/>

*Among electrical equipment for ships. Survey by Kyokuyo Electric.

Kyokuyo Electric Co., Ltd., a firm handling electrical equipment for marine vessels, will begin sales on May 12, 2015 of the Smart Digital Tuner Worldwide, a TV tuner supporting terrestrial digital broadcasts systems all over the world.

[Background]

In the field of terrestrial TV broadcasting, a worldwide shift is underway from analog broadcasting to digital broadcasting, but broadcasting standards for terrestrial digital broadcasting are not uniform throughout the world, and the various standards include the Japanese system (ISDB-T), Brazilian system (ISDB-TB), European system (DVB-T), second generation European system (DVB-T2), American system (ATSC), and Chinese system (DTMB). Therefore, in order to view terrestrial TV on ships traveling to various countries throughout the world, it has been necessary to prepare receivers (TVs or tuners) compatible with the different terrestrial digital broadcasting standards at each port of call. In addition, even if TVs or tuners compatible with the standards of each country are prepared, troublesome procedures have been necessary when viewing with a single TV, such as preparing multiple devices and switching the wiring each time.

To enable ship-owners to improve entertainment equipment and reduce the burden on ship crew under these conditions, Kyokuyo Electric has **developed a terrestrial digital tuner enabling reception of all terrestrial digital broadcasting standards with a single device.**

[Product overview]

This system enables viewing of terrestrial digital broadcasts, on ships in port or navigating along a coastline, simply by connecting the Smart Digital Tuner Worldwide for ships to an existing TV and antenna.

Setup operation is simple, and no major work is necessary to install the equipment.

- **Product name: Smart Digital Tuner Worldwide – KST-1000-W**
- **For: Ships traveling to countries throughout the world (must have terrestrial digital antenna and TV)**
- **Price: Open**

[Main features]**1: Compatible with terrestrial digital broadcasting standards worldwide**

This system enables TV viewing while in coastal regions (or in port) in each country.

- ISDB-T : Japan
- ISDB-TB : South America etc.
- DVB-T : Europe, Australia, Taiwan etc.
- DVB-T2 : UK etc.
- ATSC : North America, Korea etc.
- DTMB : China etc.



- To enable pleasant TV viewing, terrestrial digital broadcasting signals must be received at or above a certain strength via a terrestrial digital antenna.
- Even if the antenna and this product are set up properly, and correctly connected, reception of terrestrial digital broadcasts will be impossible in countries without terrestrial digital broadcasting. Even in countries where terrestrial digital TV broadcasting has been started, it may be impossible to view digital TV if the current location (anchor point) is distant from the broadcasting station, or if it is impossible to obtain signal strength sufficient for TV viewing at unfavorable locations such as those where noise has an effect on TV signals.
- In terms of video formats, the system supports MPEG-1, MPEG-2, MPEG-4, and H.264. It does not support AVS (a standard unique to China).
- Pay broadcasts (scrambled broadcasts) cannot be viewed.

2: Intuitive, simple operation

Operation relating to TV viewing, such as region selection (broadcasting system selection) and channel scan, can be done simply and easily. Menu screens and the operation manual are provided in both Japanese and English.

3: Can be connected with analog worldwide TV using through-out output

The main unit is equipped with an antenna through-out output terminal for connecting an analog worldwide TV, to enable viewing of analog TV in countries continuing to broadcast terrestrial analog TV.

4: Equipped with 1-seg for a much broader viewing area (*Japan only)

Even if the ship enters an area where viewing is impossible with ordinary TV due to the weakness of the received signals, the system will automatically switch to 1-seg to enlarge the viewing area.

5: Equipped with double tuner for relay/affiliated station search (*Japan only)

Unlike TV in the home, the broadcasting stations which can be viewed constantly change on a moving ship. With previous terrestrial digital tuners, it was necessary to manually perform region setting and broadcasting station scanning to adjust to these invisible changes. With this product, the system automatically switches between two tuners while they constantly search for the optimal broadcast, and thus there is no need for troublesome operation.

6: Support for system updating using USB memory

Firmware updating can be done from the USB maintenance port on the back of the main unit. Firmware is available at any time from Kyokuyo Electric home page.

[About Kyokuyo Electric]

<http://www.kyokuyoe.co.jp/english/img/CompanyProfile.pdf>

Contacts

Teppei Kamiya, Kyokuyo Electric Co., Ltd.

TEL : +81-6-6581-5814 / E-MAIL : kst1000@kyokuyoe.co.jp