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NEWS RELEASE

Techno Mathematical Co., Ltd.

(Tokyo Stock Exchange, Second Section, Code No. 3787)

Techno Mathematical Announces World's First* & Smallest*

“Tally / Intercom System”

For Easy Implementation in the Existing Broadcast System

(* Based on TMC's search)

Tokyo, December 8, 2017 - Techno Mathematical Co. Ltd. (“TMC”), a supplier of Compact IP Encoder and Decoder utilizing its mathematical and revolutionary algorithm “DMNA” (Digital Media New Algorithm), announced that TMC has developed and released “Tally/Intercom System” for the live broadcasting application. This system can be easily implemented in the existing broadcast system, and it transmits the tally information and realize intercommunication through TMC’s bestselling Compact IP Encoder and iPad/iPhone decoder software.

Release date: January 10, 2018

Sample units will be available (please contact TMC for the details.)

This “Tally/Intercom System” consists of TMC’s Compact IP Encoder and the Tally/Intercom control panel, and the system can transmit the tally information (Tally A and Tally B) to up to maximum 10 iPads or iPhones in real-time. Also, the system is capable of transmitting the tally information from the existing video switcher through the GPI port prepared on the control panel which makes easy implementation in the existing broadcast system.

The intercom function provides the connection with the individual iPad/iPhone or all iPads/iPhones simultaneously by switch-buttons, and it realizes bi-directional communication between the encoder and the iPad/iPhone decoder software.

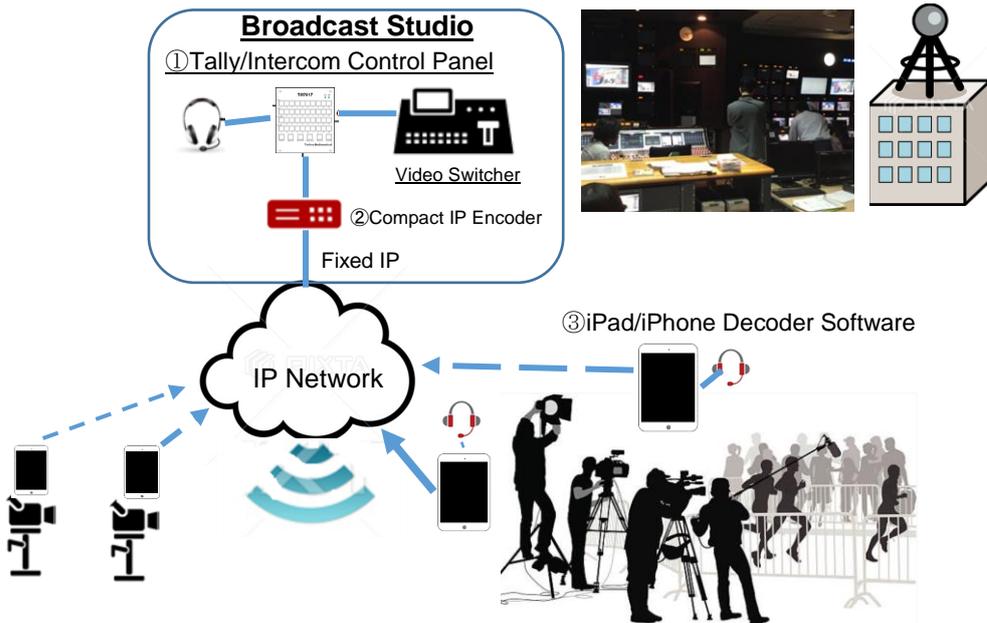
At the field test in the live sports broadcast event (marathon race), the test unit has provided the smooth and stress-free performances in transmitting the tally signals from the studio to the field crews who carry the iPads/iPhones and also the simultaneous voice messages or bi-directional communication by intercom functions. The system has received high reputation from the users

Key Features of Control Panel

- ◆ Maximum 10 units of the decoder software (iPad/iPhone) can be connected.
- ◆ Two tally information (Tally A and Tally B) can be output from the control panel.
(When the control panel is connected with the external video switcher though its GPI port, the output of the control panel is depended on the tally information supplied from the video switcher.)
- ◆ XLR-4 terminal is prepared for the headset (dynamic microphone is recommended) connection for intercom function.
- ◆ Intercom function provides simultaneous or individual connections.
- ◆ GPI terminal is prepared for the external video switcher.
- ◆ Dimension: 180 (W) x 181 (D) x 66 (H), Weight: 1.2Kg

Key Features of Encoder

- ◆ System latency: Low latency (100msec)
- ◆ Low bit rate: 128kbps to 3Mbps
- ◆ Input formats: HD-SDI or HDMI
- ◆ Input video formats: 1920 x 1080@59.94i/50i (Max.)
1280 x 720@60p/50p, 720 x 480@59.94p/50p
- ◆ Input program audio channel: 2 channels (max.)
(Bi-directional 2nd audio is additionally provided.)
- ◆ Dimension: 180 (W) x 160 (D) x 50 (H), Weight: 1.3Kg



- The revolutionary algorithm DMNA (Digital Media New Algorithm) mathematically simplifies and reduces tedious calculations for compression and de-compression processes for video and audio codec technologies, such as DWT (Discrete Wavelet Transform), DCT (Discrete Cosine Transform), Arithmetic coding, ME (Motion Estimation), Deblocking Filter, etc., and it realizes high speed processing without sacrificing the video and audio quality.

About Techno Mathematical Co., Ltd.

Techno Mathematical Co., Ltd. was established in June, 2000 by Dr. Masafuni Tanaka, Guest Professor of University of Tokyo. The company is well known as algorithm specialist consisting of mathematical professionals and electronics experts.

URL: <http://www.tmath.co.jp/eng>

- ◇ The all company names and products described above are trade names or registered trademarks of respective company.

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