

## **Hitachi Kokusai Electric Comark Releases PARALLAX® All-In-One Transmitter for Non-Repack and NextGen TV**

**Southwick, MA, September 18, 2020** - Hitachi Kokusai Electric Comark LLC (hereinafter “Comark”), a manufacturer and supplier of DTV transmitters, encoding systems, and associated field services for over 45 years, has announced the release of the PARALLAX All-In-One (AIO) DTV transmitter for non-repack and NextGen TV requirements.

Comark originally introduced the PARALLAX liquid-cooled, solid-state DTV transmitter product line at NAB 2015, a design that has won multiple industry awards. PARALLAX AIO is a simplified and compact version of the transmitter and is intended for medium power DTV requirements. The benefit of the AIO design is that it incorporates the complete liquid cooling system and RF filtering inside the transmitter cabinet in lieu of external subsystems. The benefit of the PARALLAX AIO is that on-site installation time is drastically simplified; the field engineer only needs to connect the transmitter’s RF output to the transmission line and two cooling hoses to the outdoor heat exchanger.

The AIO can be equipped with 3 to 8 Power Amplifiers (PA’s) in a single transmitter cabinet, delivering from 5.4 to 13kW TPO. PARALLAX AIO continues to ensure top-notch performance since the PA’s utilize the latest asymmetric broadband Doherty LDMOS FET devices. These devices not only provide broadband high efficiency operation but also have the benefit of providing the equivalent output power in ATSC 1.0 (8VSB) and ATSC 3.0 (OFDM).

The DTV transmitter’s RF system, fully contained in the transmitter rack cabinet, accommodates either 6 or 8-pole variations. The RF system also includes a motorized RF output switch and liquid cooled station load, with switch control fully integrated into the transmitter’s control system. In lieu of displaying the PARALLAX AIO product at a physical trade show, Hitachi-Comark has published a YouTube video overview / demo of the product: <https://youtu.be/uxFA9poMnmY>

According to Tom Barbeau, Hitachi Kokusai Electric Comark LLC VP of Engineering, “international DTV conversions, non-repack, and NextGen TV requirements demand streamlined transmission solutions and the PARALLAX AIO product delivers. We have engineered the best possible solution using state of the art amplification, efficient cooling, and RF mask filtering in a package that gets a site on-the-air in just a few days.”

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***About Hitachi Kokusai Electric Comark LLC:***

For over 45 years COMARK has been synonymous with broadcast expertise and innovation. A trusted partner to the world's leading broadcasters, COMARK has pioneered many developments that have shaped the industry, leading innovation in IOT & MSDC-IOT technology, transistorized solid-state technology, Digital Adaptive Pre-correction (DAP), and also winning multiple Emmy® Awards; and gaining numerous patents in technologies that have become fundamental to broadcasting. COMARK is now building on this great heritage with the release of an entirely new range of transmission products for terrestrial television broadcasting, and state-of-the-art products for scientific/industrial RF applications. With thousands of active COMARK transmission systems deployed worldwide and a global support presence, COMARK plans to continue to develop technologies for the future, with efficient performance initiatives that improve coverage and save power.

Information about products from Hitachi-Comark  
is available at [www.comarktv.com](http://www.comarktv.com).

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