

Hitachi Kokusai Electric Comark Releases **PARALLAX® Compact Transmitter for SFN and NextGen TV**

SOUTHWICK, MA, March 18, 2024 – Hitachi Kokusai Electric Comark LLC (hereinafter “COMARK”), a manufacturer and supplier of DTV transmitters, encoding systems, and associated field services for over 50 years, has announced the release of the **PARALLAX Compact** UHF / VHF liquid-cooled, solid-state DTV transmitter for SFN and NextGen TV requirements. The **PARALLAX Compact** is an evolution of the company’s existing product family delivering an efficient package for small transmitter sites.

Comark originally introduced the **PARALLAX** liquid-cooled, solid-state DTV transmitter product line at NAB 2015. It is a design that has won multiple industry awards with hundreds of cabinets deployed throughout the US. **PARALLAX Compact** is a simplified and condensed version of the transmitter that is intended for low and medium power DTV requirements of 10kW and below including Single Frequency Network (SFN) and NextGen TV applications.

The **Compact** transmitter system can be equipped with 1 to 6 Power Amplifiers (PA’s) in a single 27RU transmitter cabinet that is only 54” tall. It can deliver 1.8 to 10kW UHF or 1.5 to 8.4kW VHF output power levels measured after the mask filter. **PARALLAX Compact** ensures top-notch RF performance; it shares the same PA module design that features 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).

PARALLAX Compact provides a future proof design to broadcasters:

- Latest “Ocean” control system with a large 15” touch screen user interface
- High efficiency with wideband Doherty technology
- Unique vertical high-gain power amplifiers,
- 2kW per PA module for UHF; 1.6kW per PA module for VHF band 3
- Asymmetrical Doherty; provides same power in 8VSB (ATSC 1.0) and OFDM (3.0)
- EXACT-V2 DualCast ATSC 1.0 / 3.0 upgradeable; preserves investment
- Single or dual drive design depending on redundancy needs
- Hot-swap AC to DC rectifiers with >96% efficiency, 3:1 ratio of rectifiers to PA
- Full remote control and monitoring with built-in web GUI and SNMP
- Made in the USA; serviced and supported out of Southwick, MA

“COMARK continues to evolve the **PARALLAX** product line to meet US and International customer requirements”, states Joe Turbolski, VP of Sales and Marketing for COMARK. “This new product package provides the best possible solution for stations running at less than 10kW and is extremely cost competitive allowing broadcasters to minimize both CapEx and OpEx .”

A **PARALLAX Compact** UHF transmitter system will be on display in the company’s NAB 2024 booth, C4516.

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About Hitachi Kokusai Electric Comark LLC:

For over 50 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 entire 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 lead the way in developing technologies for the future, with efficiency and performance initiatives for improving coverage and saving power.

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See us at NAB Booth # C4516

Information about products from Hitachi-Comark
is available at www.comarktv.com.

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