



## Hello

Welcome to the sixth edition of Nautel Navigator with news from ION, a customer case study from Ukraine, the eLORAN alternative to GPS, and our regular Technical Tips column.

We would love to hear from you. Please send your feedback and input for future topics to [nav@nautel.com](mailto:nav@nautel.com).

Thank you!



[Play ATU-HP Tuning Video](#)



[Play ATU500 SR Tuning Video](#)

Nautel Support Videos are created by Nautel Customer Service Technicians and cover topics such as configuration, operation and maintenance of your Nautel transmitter.

[Technical Support Videos >](#)

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### Direct From the Floor at ION

Gary Galbraith recently exhibited various Nautel Navigation Solutions at ION in Nashville.



On display was a [VRD200, 200 W Vector Series Differential Global Positioning System Transmitter](#) which offers a unique, patented solution to maintain system coverage regardless of undesirable antenna effects such as salt build-up on antenna insulators and ground plane resistance changes.

Gary also showed an [ATU-LP, 250 W Antenna Tuning Unit](#) which not only automatically matches the capacitive portion of the antenna impedance using dual astatically wound loading coils, but also automatically matches a  $\pm 2:1$  (4:1 overall) change in the resistive portion of the antenna impedance. This feature virtually eliminates seasonal visits to NDB and DGPS sites to re-tap the traditional fixed-tapped matching transformers and is unique to Nautel ATUs.

[NAVTEX: Reliable Coverage in ALL Conditions](#)



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Nautel NAVTEX transmission systems provide shore to ship delivery of navigational and meteorological warnings and forecasts, as well as urgent marine safety notices.

Our industry-leading quality, reliability and customer support make us the choice of NAVTEX station operators worldwide.

Specifically designed for use in harsh conditions, from desert to arctic to coastal and maritime environments, our Vector NAVTEX System offers a unique, patented solution to maintain system coverage regardless of undesirable antenna effects such as salt build-up on antenna insulators and ground plane resistance changes.

[Read more >](#)



#### Case Study: NDB Selected for Nine Ukrainian Air Sites

RPE TechWestService Ltd. installed nine Nautel NDB Systems around Ukraine; six at Ukrainian Air Traffic Service Enterprise sites, one at "ANTONOV" plant testing aerodrome and two at helipads in Kiev and Kiev Region.



They share their experience of the installations with different types of antennas. "**All our customers highly evaluate the quality and reliability of Nautel NDB equipment.**" says Dmitry Nazarenko, Engineer, TechWestService Ltd.

[Read more >](#)

#### GPS Vulnerable to Attack - eLORAN Difficult to Jam

New research shows that the GPS software we all rely on can be hacked and manipulated. However, it's noted in this video that enhanced LORAN which provides timing signals as backup would be very, very difficult to jam. [Play GPS Spoofing Video >](#)

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Following jamming attacks by North Korea, South Korea is working to deploy eLoran. Jiwon Seo who is working with the government on its eLoran program, said “eLoran is a very high-power terrestrial navigation system and it is virtually impossible to jam it.” Read the full article [Governments Confront Rising Threat to Ships from Signal Jamming](#).

[Learn more about eLoran and LF PNT Solutions >](#)

#### Tech Tips 'n Tricks

#### **What You Need to Know When Calling Tech Support.**

Should you ever require the services of Nautel technical support, there are a few things you can do to speed up your service call.

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