

Preliminary



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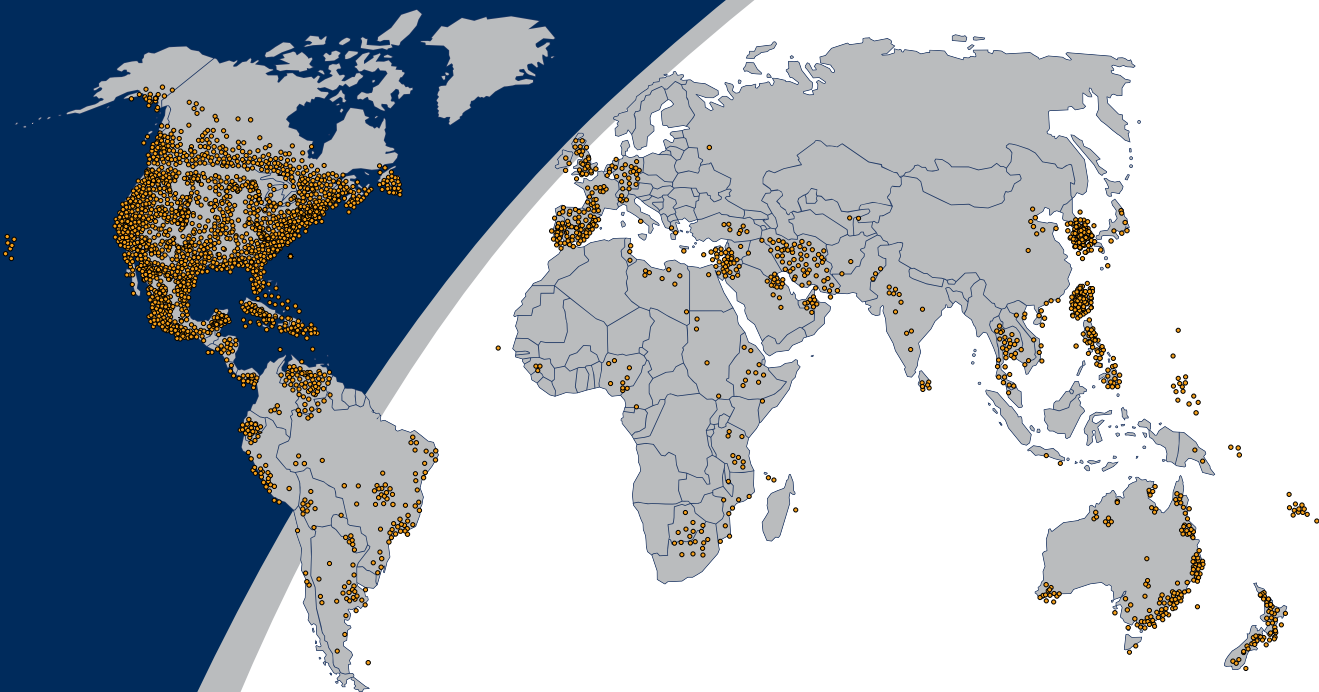
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• Nautel installed transmitters



WHY CHOOSE NAUTEL?

Nautel designers and engineers have the experience to support our products, old or new. Our customer service staff is available 24 hours a day, 7 days a week to answer your questions and provide experienced technical support. We provide extensive training and on-site support for all our products along with extended warranties and a ready supply of parts that can be shipped at a moment's notice.

Nautel products include extensive documentation, manuals and schematics to guide you through everything from installation to troubleshooting. We build value into every piece of equipment that leaves our facilities; in terms of technical features, innovation and cost effectiveness, Nautel is always one step ahead of the pack.

Making Digital Radio Work.

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Specifications subject to change.

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VSSERIES FM Analog

300W – 2.5kW FM Transmitters
with Integral Exciter

VS Series 300W – 2.5kW FM Transmitters



Making Digital Radio Work.



VS1 1kW Analog

FUTURE READY



VS10 Digital Upgrade



Radio™
Pure Digital. Clear Radio.



VS SERIES: THE NEW STANDARD IN LOW POWER FM

Nautel's new VS Series FM transmitters are engineered to meet today's most challenging broadcast requirements with an exceptional combination of robustness and reliability in a cost effective design. But the VS Series goes even further with industry first innovations such as IP audio I/O, Livewire™ support, Nautel's Advanced User Interface (AUI) and a simple upgrade path to digital transmission ensuring that your VS transmitter is future ready. Each VS transmitter has been optimized for its specific power output to maximize functionality and quality resulting in outstanding value.

OUTSTANDING FM PERFORMANCE: THE NAUTEL SOUND

More and more customers are commenting on the Nautel sound or to be more specific, the lack of it. With VS Series transmitters it is simply audio in and RF out without audio coloration. To achieve this sonic clarity the VS Series incorporates one of the most advanced FM exciters available today. Direct to-channel digital modulation at more than 600 MSPS eliminates microphonics and spurious outputs and results in a composite sound-to-noise ratio of -90dB or greater.

SIMPLE SERVICEABLE DESIGN

VS Series transmitters are ruggedly engineered to ensure maximum on-air continuity. The simplicity and reliability of the VS Series' proven RF design is further enhanced with redundant fans and RF power amplifiers in the VS1 and VS2.5. Service friendly design considerations include washable air filters that are easily accessed from the VS front panel. Even the VS Series power transistors are field replaceable with common tools and absolutely no biasing or tuning is required. The integrated exciter approach also means there are no pots or switches to worry about. All exciter adjustments are done easily using the Advanced User Interface in a web browser either locally or remotely. In addition there is no warm-up or lock time. Power up and you're on the air in a fraction of a second.

FREQUENCY AGILE

The VS Series' broadband design allows the exciter to select the required presets for operating frequency and output power level, enabling the transmitter's use anywhere in the FM band. Using the remote capability of the AUI, all settings including frequency presets can be managed anywhere there is internet access.

NAUTEL RELIABILITY

With forty years of worldwide transmitter experience and one of the industry's most recognized reliability track records, your Nautel VS Series transmitter can be counted on for years to come.

NAUTEL INNOVATIONS

- Ultra compact: just 2, 3 or 4 RU
- Integrated exciter
- Advanced user interface (via web)
- Front panel LCD control
- 100% of local control via the web
- IP Audio I/O, an industry first
- Advanced instrumentation and management
- Easy upgrade to HD Radio or DRM+
- USB backup audio automation

IP AUDIO I/O AND EASY UPGRADES TO DIGITAL BROADCASTING

Crystal clear programming, three channels on one frequency, song tagging, and the delivery of advanced Program Associated Data. These exciting new capabilities are available using digital broadcasting. When you are ready to implement digital transmission your VS Series transmitter will be ready too. Choose from either HD Radio broadcasting or DRM+ standards. The optional VS HD add-on unit and Nautel's integrated digital solutions make your move to digital broadcasting easy and economical.

IP AUDIO I/O: AN INDUSTRY FIRST

IP or Ethernet audio transport is becoming the industry norm for connecting studio equipment. Transmitters too can benefit from the move to IP. With the VS Series, Nautel becomes the first manufacturer to offer an IP audio input in addition to AES and traditional mono and composite inputs. The VS Series transmitters are also the first to support the Axia Livewire protocol. Now broadcasters can connect their Livewire networks directly to a VS Series transmitter with a single RJ-45 and achieve a high reliability, high performance, all-digital transmission path from studio to transmitter with no intermediary connections or D/A conversions. Furthermore the VS Series supports streaming services such as SHOUTcast™ and RTP.

VS SERIES ADVANCED USER INTERFACE (AUI)

The VS Series features both a front mounted LCD control and an Advanced User Interface. The AUI can be accessed locally using a user provided laptop and remotely using the internet.

Screens are easy to set up and read, and clearly display the parameters you need to see. No matter where you are, you're only moments away from ensuring your VS Series transmitter is operating optimally. AUI functionality includes:

- Instrument grade audio spectrum analyzers
- Comprehensive monitoring and control
- Extensive logging of all events
- Presets and easy transmitter control

QUICK SPECS	VS300	VS1	VS2.5
Rated Power	300W	1000W	2500W
Max Power	350W	1400W	2800W
Typical Efficiency	60%	61%	63%
AC Input	180V ac to 264 V ac, 1 phase, 50/60 Hz		
Rack Units	2RU	3RU	4RU
Height (in/cm)	3.5 (7.7)	5.25 (13.3)	7 (17.8)
Width (in/cm)	19 (48.3)		
Depth (in/cm)	23.8 (60.5)		
Weight (kg/lbs)	9.1 (20)	18.1 (40)	30.8 (68)

Specifications subject to change

