



**V2.5 Update**

**Guide to Wireless Communications  
between a Line 6 Vetta™ II Amplifier  
and a Line 6 Variax™ Guitar.**



Electronic Limited Edition. Also available at [www.line6.com](http://www.line6.com). Revision A.  
Vetta™ II Manual Rev B Addendum

## **An Introduction**

In the latest Vetta™ II update, Version 2.5, a new unpublicized feature was added at the request of some of our high profile artists. This feature allows a Vetta™ II Amplifier to communicate with a Variax™ guitar wirelessly with some special cables, an off the shelf MIDI wireless system and a Audio wireless system.

***If this sounds like something you'd like to experiment with please read on.***

Wireless communication between a Vetta and a Variax falls into the category of an “unsupported, use at your own risk”, feature. (It's a category of one!)

*Note: There is no intention on Line 6's part to offer a commercial solution for wireless communication between a Vetta™ II and Variax™ guitar, however in the spirit of supporting the needs of our community we decided to share this bit of information with you.*

While a VDI cable provides bi-directional communication between a Vetta™ and a Variax™, ***the wireless link described in this document provides one-way communication from the Vetta™ to the Variax™***. This solution simply transmits Guitar Model patch change data, as well as tone pot data to the Variax™ - as they were programmed into the Vetta's™ patches, which must be done with a Variax connected to a Vetta with a VDI cable.

### **How/Why it works:**

When the Variax™ is physically connected to the Vetta™ via the VDI cable, the Vetta™ reconfigures to accept digital audio and digital audio sync from the VDI interface. Vetta™ also received patch, patch name and tone pot information from the guitar whenever something is changed, that way it can store and recall the appropriate Variax™ information within it's own patch structure. Variax™ W/L mode allows the Vetta™ to operate, (internal sync, analog input) without a Variax™ connected to the VDI connector, however it still send the Variax™ patch information out via the VDI connector whenever a Vetta patch is recalled.

## **Programming patches for use in the Variax™ W/L mode:**

1. You must build your Vetta™/Variax™ presets with the Variax™ W/L mode off, and with a VDI cable connecting the two products.
2. Once your presets are built, you can disconnect the Variax™, connect up your wireless rig, and enable the Variax™ W/L mode.

## **How to set up your Vetta™ II and a Variax™ Guitar to operate wirelessly.**

First you're going to need some things to get this all together. Here's a shopping list:

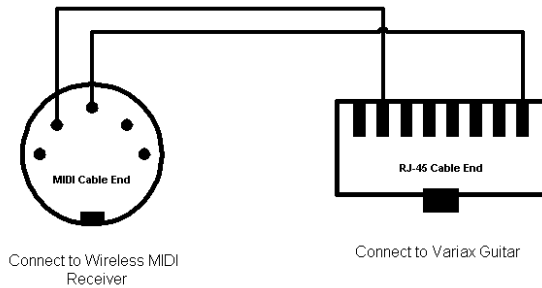
### **Things you'll need:**

1. Vetta™ II with V2.5 firmware and a Variax™
2. A Wireless MIDI solution. We've tested this system with the MIDIJet wireless transceiver from [www.Organworks.com](http://www.Organworks.com). They also have a pro version with a longer range. Also CME, <http://www.cme-pro.com> recently announced the WIDI-X8.
3. Two special cables to adapt the MIDI cables to the VDI connectors on the Vetta™ and the Variax™. (Schematics Included). You may want to ask you techie friend to help you out with this one. Basically, start with a Ethernet cable, a MIDI cable, a few simple electronic components (1 X 1N5231 5.1V Zener Diode, 2 X 220 ohm 1% resistors) and a soldering iron...
4. An audio wireless to get audio signal from the Variax™ ¼" output to the Vetta™ Input.
5. Loads of batteries for your Variax™, the audio wireless pack, and the MIDI wireless transceiver.

## Tech Instructions:

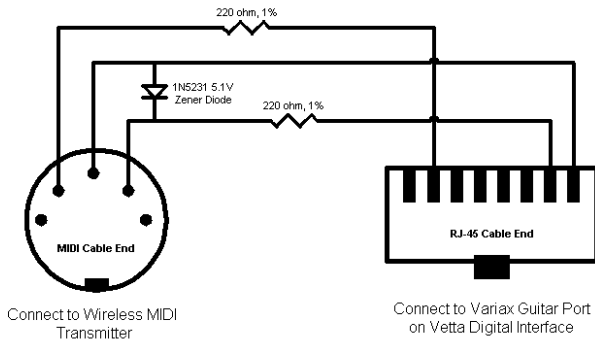
Build the cables, mark the Vetta™ side cable with the extra electronic components: VETTA™, mark the Variax™ cable as well. The cables are not reversible, so please mark them to avoid confusion at critical moments in your performing career.

### Variax Guitar Wireless MIDI Reception



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### Variax Guitar Wireless MIDI Transmit from Vetta



## Putting it all together:

1. Connect the VETTA™ VDI to the MIDI wireless Transmitter with the VDI to MIDI adapter cable.
2. Connect the MIDI wireless Receiver to the Variax™ with the MIDI To Variax™ VDI cable you build.
3. Connect the wireless audio transmitter to the ¼' connector on your Variax™, and the audio wireless receiver to the ¼' input on the Vetta™.
4. Power it all up.
5. Set the Vetta's™ Variax™ W/L parameter to On, and you're all set.

So there you have it, everything you'll need to get your Vetta™/Variax™ rig up and running wireless at your next gig.

Note: This is an “unsupported” feature in Vetta, and yet it is something we wanted to share with the Vetta community. A great source for advanced Vetta capabilities is the Vetta Community that largely resides on the Line 6 forums, <http://www.line6.com> or at the Institute of Noise, <http://www.instituteofnoise.com>.

Enjoy,

The Vetta Team.