



VLF E Series VLF and Tan Delta Hook Up and
control with E-Link



ISO 9001 2008

The World's Source for High Voltage Test Equipment

MADE IN THE USA

High Voltage, Inc. • hvinc.com • p. 518.329.3275 • f. 518.329.3271 • 31 County Route 7A • Copake, NY 12516 USA

Disclaimer

This guide for the High Voltage, Inc. E Series of VLF hipot and Tan Delta bridge hook up is meant to be for reference only. The instructions are intended to be clear and simple, but the operator must be trained and qualified according to the customer's established procedures for the use of this type of equipment.

VLF and Tan Delta Hook Up



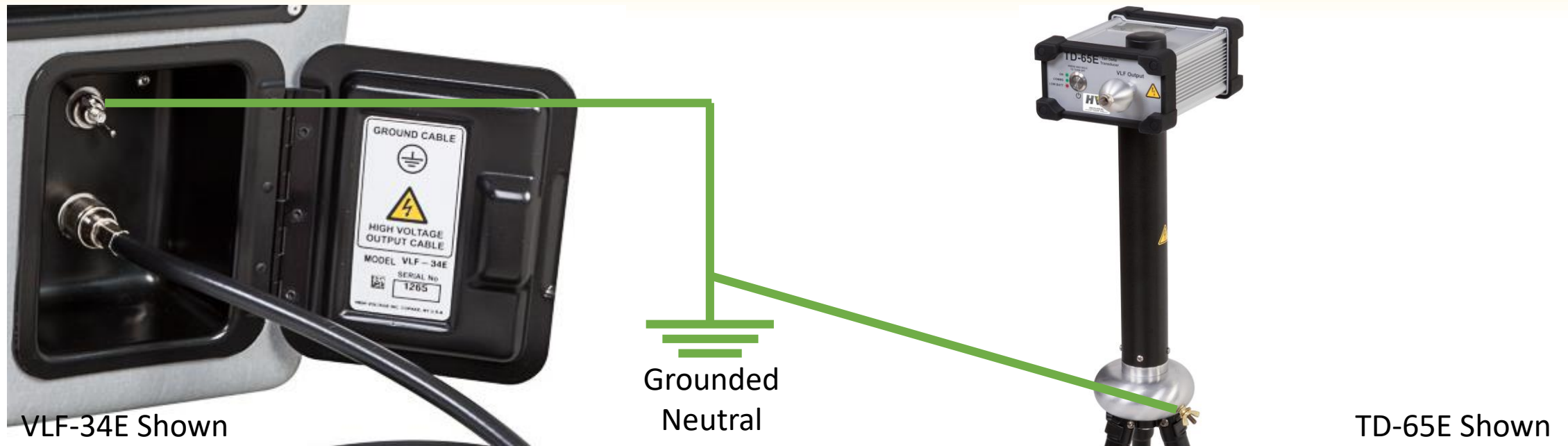
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Step 1: Ground VLF and Tan Delta Bridge

Connect the ground stud of the VLF and Tan Delta Bridge to the grounded concentric neutral of the cable under test



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Step 2: Install High Voltage Output Cable from VLF to Tan Delta Bridge



Install shielded output cable supplied with TD Bridge



MC Connector, Push in to install
Push in, then pull out to remove



Push in MC Connector into socket and pigtail ground to ground stud

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Step 3: Install High Voltage Output Cable from Tan Delta Bridge to cable under test



White insulated, unshielded output cable plugs into sphere and clip goes to cable under test. Keep this cable away from ground 6-8 inches (12cm – 20cm) or more. Use the supplied corona suppressing toroid to reduce electrical discharge (PD)

Step 4: Power on VLF and Tan Delta Bridge



Turn on both the VLF
And Tan Delta Bridge



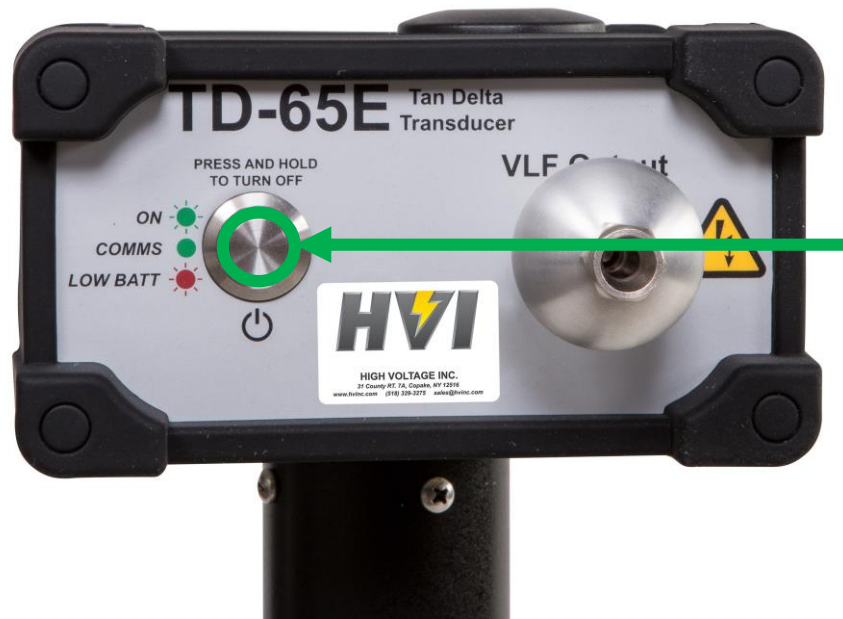
Light should blink
green, if red change
the batteries

Step 5: Set VLF Measurement Source to TD

1. Push the blue button to enter Advanced screen
2. Scroll down to "Measurement Source"
3. Push down on the encoder or press the green button
4. Choose TD-34/65, TD-34, or TD-65 (depending on model)
5. Push down on the encoder or press the green button
6. Check light on Tan Delta module



Step 6: Verify solid green light on Tan Delta bridge



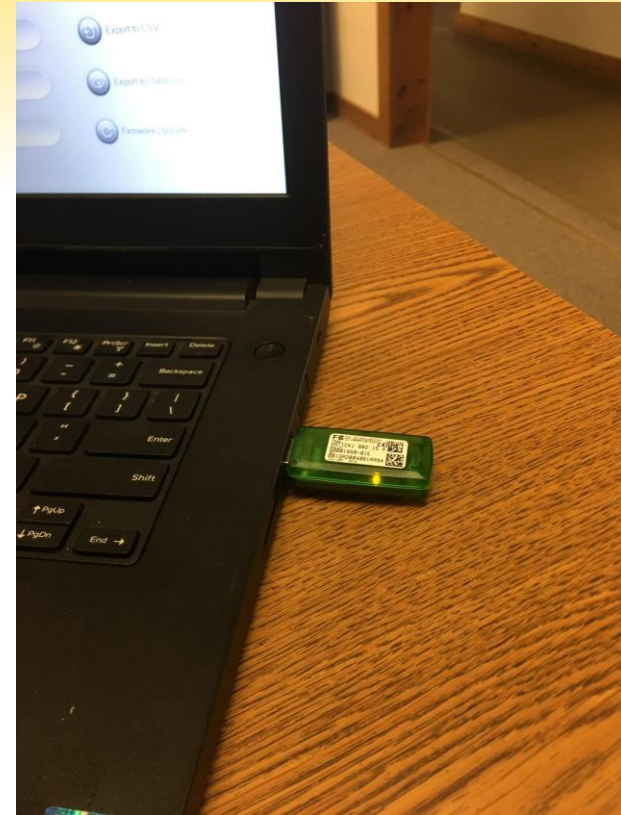
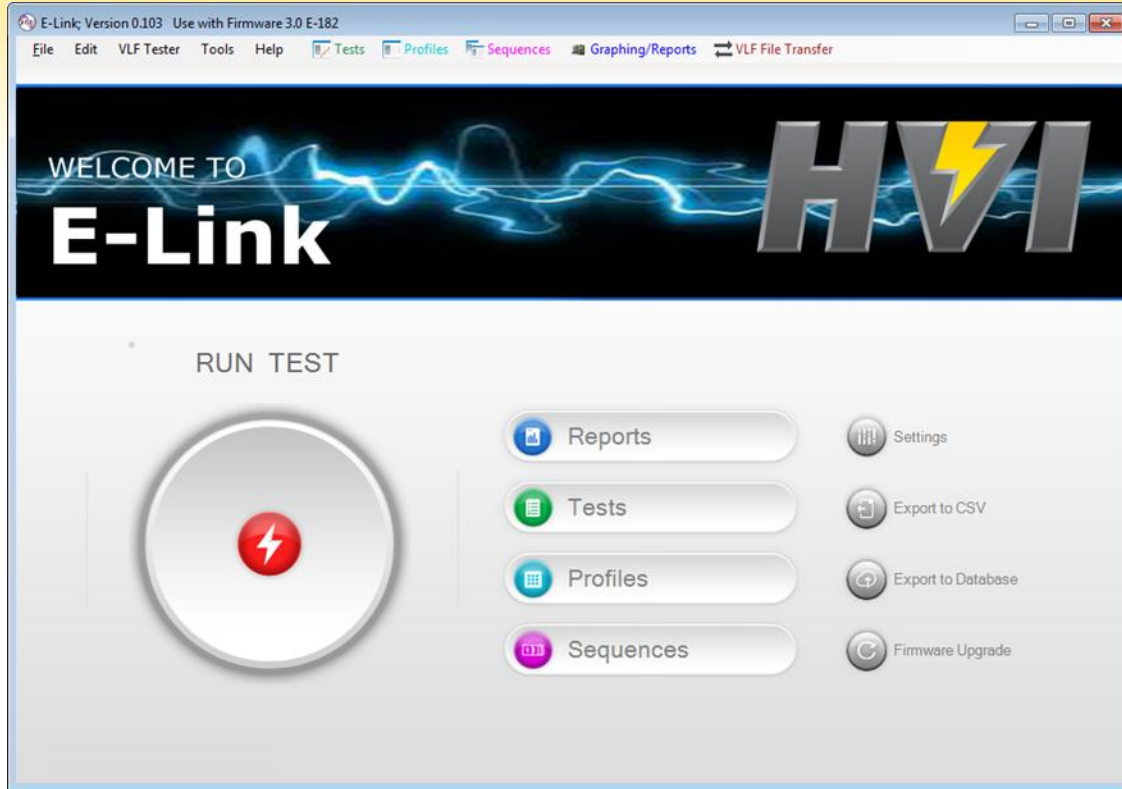
The light on the Tan Delta Bridge should change from blinking green to solid green confirming the Xbee wireless connection between the VLF and Tan Delta bridge has been established

Step 7: The VLF and Tan Delta are ready to test



1. Press the blue button for “New Test Setup”
2. Choose “Sinewave “ for waveform
3. Choose the desired output frequency (0.1Hz)
4. Choose voltage step 1
 1. Set up first test voltage ($0.5 \times u_0$)
 2. Set duration for 3 minutes
5. Choose voltage step 2
 1. Set up first test voltage (u_0)
 2. Set duration for 3 minutes
6. Choose voltage step 3
 1. Set up first test voltage ($1.5 \times u_0$)
 2. Set duration for 3 minutes
7. Choose “Fault” as “Overload on Arc”
8. Press the blue button to start the test

Control of VLF and Tan Delta via E-Link with PC

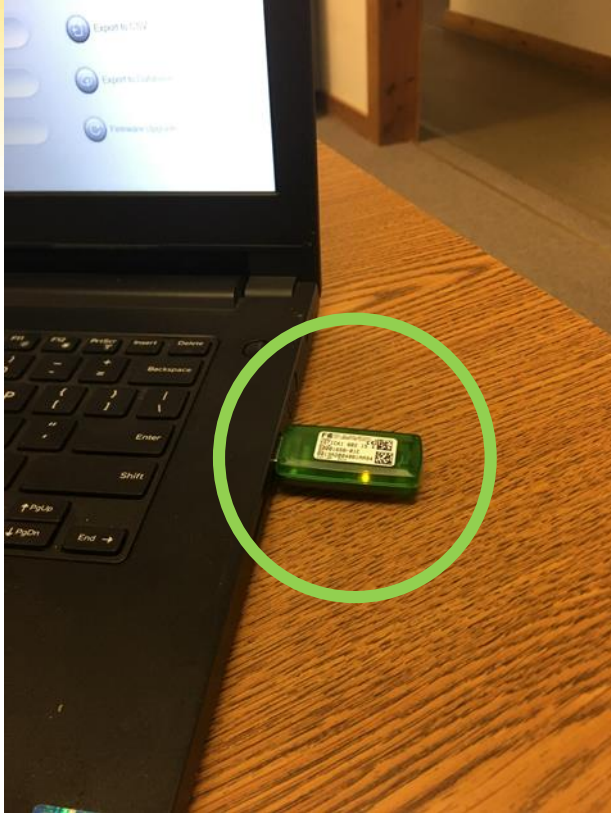


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Step 8: Insert the green USB Xbee Antenna into PC



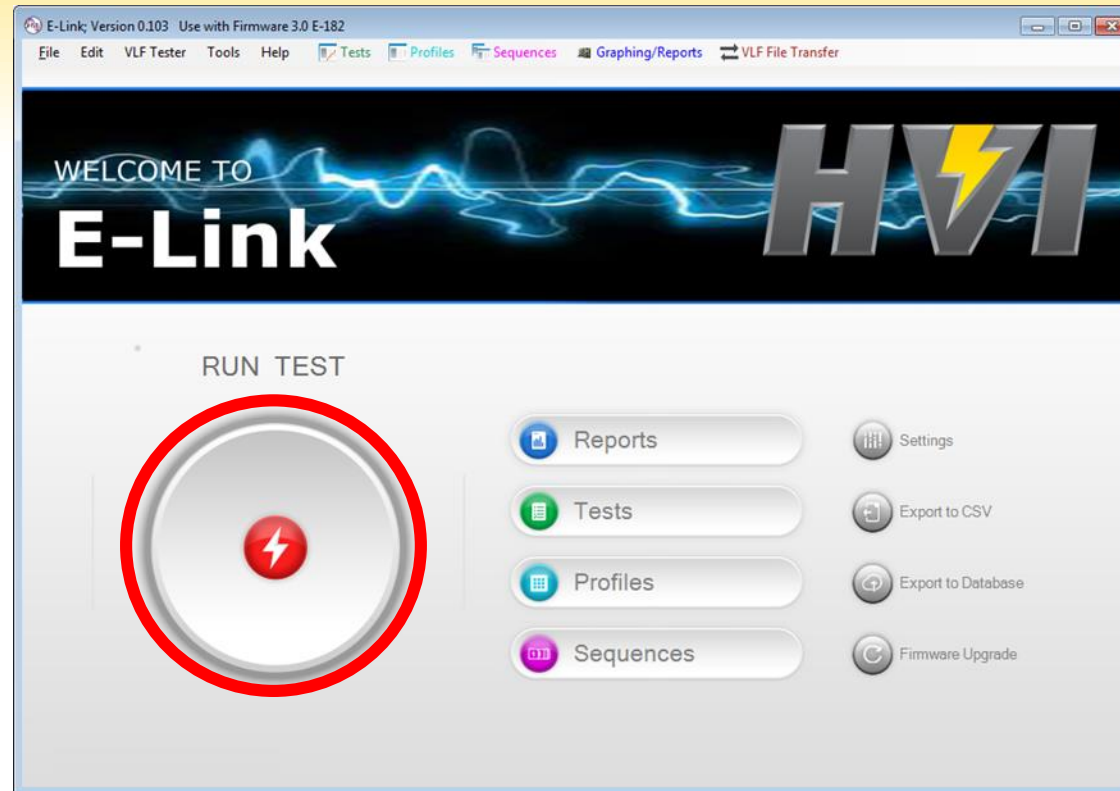
1. Plug green USB Xbee Antenna into PC
2. Install the drivers for the Xbee Antenna
3. Download via the Internet (or)
4. Download via the red HVI flash drive

Step 9: Open E-Link Software

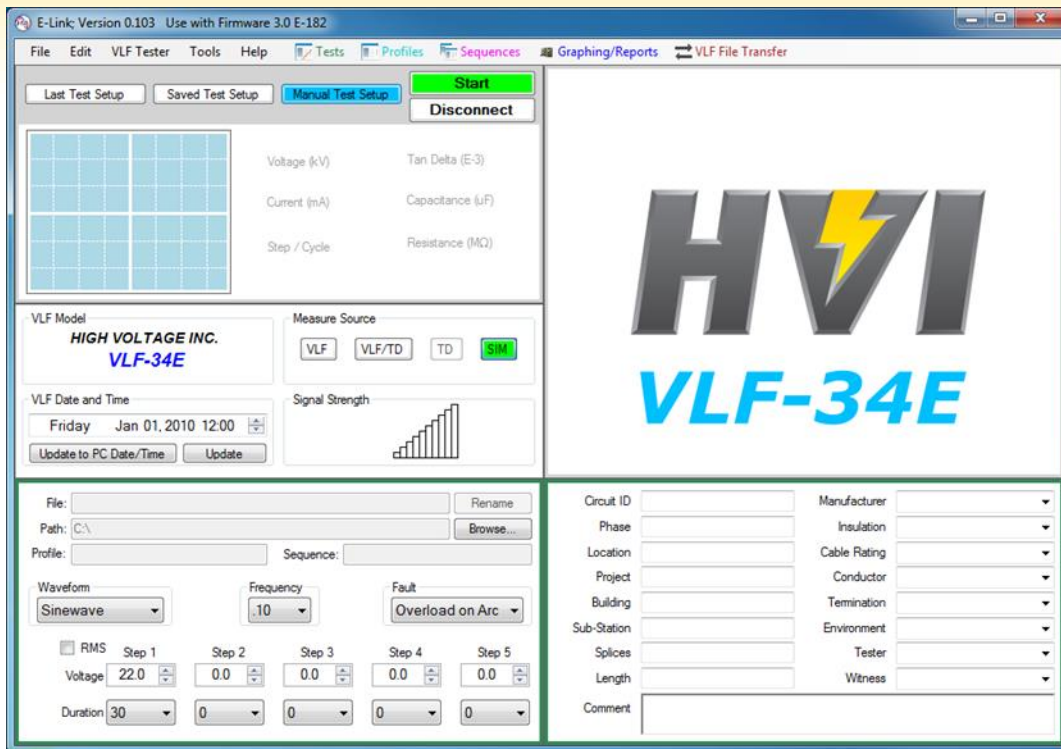


1. Install the E-Link software from the red HVI flash drive
2. Open the E-Link software
3. Click on "Settings"
4. Click on the "Communications" tab
5. Click the "Auto Detect" button
6. The software should automatically assign a serial port
7. Click "Close"
8. If you have issues please contact factory@hvinc.com

Step 10: Click “RUN TEST”



Step 11: Ready to program the test using E-Link



1. Choose "VLF/TD" as your "Measurement Source"
2. Choose "Sinewave" as your "Waveform"
3. Choose your output frequency (.1Hz is normal for TD)
4. Choose voltage step 1
 1. Set up first test voltage ($0.5 \times u_0$)
 2. Set duration for 3 minutes
5. Choose voltage step 2
 1. Set up first test voltage (u_0)
 2. Set duration for 3 minutes
6. Choose voltage step 3
 1. Set up first test voltage ($1.5 \times u_0$)
 2. Set duration for 3 minutes
7. Choose "Fault" as "Overload on Arc"
8. Click the green "Start" Button



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Thank You

from



Thank you for watching, if you have any questions please contact
High Voltage, Inc. or your local High Voltage, Inc. sales representative

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