

VP-50 Release Notes As of 21.1k

Experimental Software Notice

With experimental software you should always do your own flight testing in VFR conditions until you are satisfied with the software's stability and functionality. Be sure to read and understand the full software installation AND test procedure described in the Installation Manual.

If you are updating over multiple versions, make sure to read the change notices for all versions between your current version and the version you're loading.

Refer to the VP-50 Installation and Operating Manuals for details on new features.

BE SURE TO DOWNLOAD AND INSTALL THE VERSION 21 'UPDATER APP' ONTO YOUR PC.

SEE INSTALLATION INSTRUCTIONS BELOW.

Software Enhancements

Version 21.1k:

- New lights test sequence on startup.
- Backup control for pitch trim when faulted.
- Press and hold ACK button to clear faults.
- Current draw reading is steady while wig-wag is active.

Follow these steps to upgrade to V21

You must be on v18.1c or later software prior to performing this upgrade. Go in to setup and the first screen will show the software version.

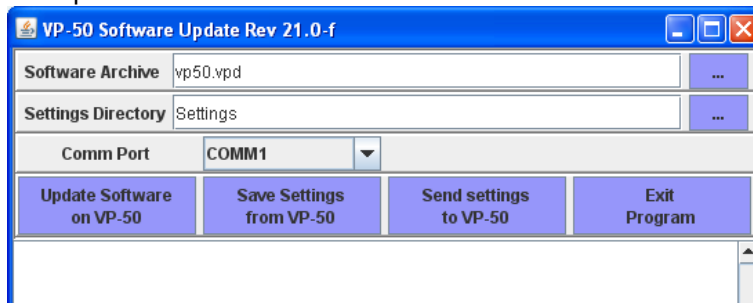
The installation consists of three steps:

1. Downloading and installing the new software using the VP Updater Application
2. Configure the new features on the switch panel
3. Export your settings (so you have them for safe keeping) using the Updater App

Please note: some PCs can be temperamental. We don't know exactly why, but many issues are related to the USB-Serial driver. If you encounter problems, please verify you are using the correct driver and the correct serial port. You might also try different serial adapter or even a different laptop.

Step 1. Install the new software

- Use with Windows XP, Vista, 7.
- Install the java engine (go to VP web site -> Support -> Software Upgrades and follow instructions there). When asked, press Run, then Unzip. Windows may pop up security messages during the install. Press Close when done. This should be automatically installed in the c:\VerticalPower directory on your computer. You can skip this step if it already loaded from a previous upgrade.
- Install the new Software Update Application from the same web site location. When asked, press Run, Run, then Unzip. Windows may pop up security messages during the install.
- Download the new version 21 application from the web. Right click on the link, then select "Save Target..." then save it to your desktop. The file is named: 2010_06_23r2101k_50VP.vpd
- Go to the c:\VerticalPower\vp50 and double click on the VP50 icon.
- When the application comes up, verify it says "VP-50 Software Update Rev 21.1-k" on the top.



- Connect the updater cable to the VP-50 Switch Panel and the serial port on your computer. If you only have USB ports, then you will need to use a USB to serial adapter (available at most electronics/computer stores)
- To the right of 'Software Archive:' press the [...] button and select the.VPD file that is on your desktop (named 2010_06_23r2101k_50VP.vpd).
- Turn on the master switch to power on the VP-50. Turn all the switches on the VP-50 to OFF. Make sure switch 1 is in the middle position.
- Select the correct comm. port. If you are unsure, then try each one until it works.
- Press the "Update Software" button.
- **Caution! Do not shut off the system while the software update is in progress.**
- Please contact VP support if you encounter any problems. Do not cycle power.
- After a successful update and after you cycle power, the display may show an error on startup. Press the ACK button on the Switch Panel to push the settings to the Control Unit. Cycle power when done.

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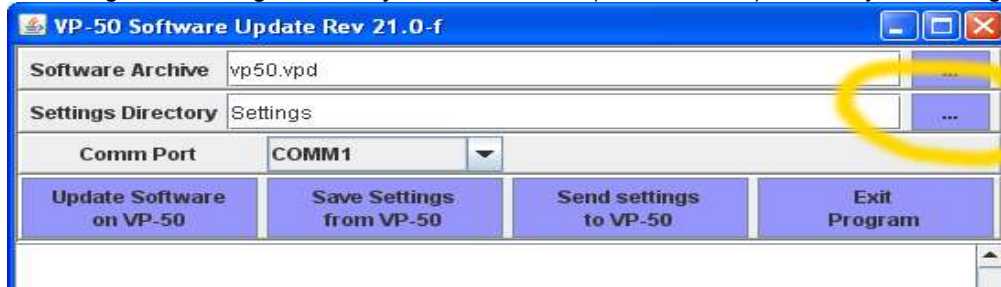
Step 2. Configure the new features. If you are upgrading from V18 then follow the steps below. If you are upgrading from v 20 then skip this step. If you have not configured any settings, then follow the Installation Manual to configure settings.

- Go into setup by turning all switches off and holding down the ACK button.
- Go to Devices
 - Current fault alarms – detection of open circuits when device turned on.
 - Added external switch inputs and ability to use switch 7 & 8 for device control.
 - If a device no longer responds to a switch panel switch, save each device.
- Go to Wig-wag setup and configure wig-wag capability.
- Go to Pitch trim setup and configure the variable speed trim
- Go to Electrical setup and configure the aux battery voltage measurement display.

Step 3. Export then import your settings. This is needed to restore the functionality of the settings.

Note: settings can only be restored to the software version that exported them. So save your settings each time you upgrade or change them.

- To the right of 'Settings Directory', select a folder (or create one) to save your settings in.



- With the cable connected between the Switch Panel and the computer, press the “Save Settings from VP-50” button.
- With the cable connected between the Switch Panel and the computer, press the “Send Settings to VP-50” button. Power cycle after the process is complete.
- **In all cases, verify each switch, trim and flaps work correctly. If a function does not work, go into the respective area in the setup menu and press save.**

Warning!

After performing an Update Software process or Import Settings process, thoroughly verify proper operation of each electrical device, including flaps and trim. Do not fly the aircraft until the electrical system has been verified for correct operation. Do not fly in IMC conditions until you are comfortable the new software is stable.

Previous Releases - Software Enhancements

Version 20.6:

- Current fault alarms – detection of open circuits when device turned on.
- Added wig-wag capability.
- Added variable speed trim
- Added aux battery voltage measurement
- Added external switch inputs
- Added ability to use switch 7 & 8 for device control.
- Short circuit timing has been optimized
- Minor internal changes.

Version 18.1.C:

- Device power control via switches 1-6. Over-current and short-circuit protection on all circuits.
- Trim axis control with runaway protection.
- Device configuration and setup.
- Software update, configuration settings save/restore via PC Application.