

16.1 Viking Subscriber Software General Release

Effective Release: 09/16/16

FSN-0916-VIKING-05

This Field Software Notice serves to announce EFJohnson's Viking radio software 16.1 general release. This software release supersedes previous radio software versions associated with Viking series radios.

! Note: **Release 16.1 does not support Windows XP or Vista.** Microsoft discontinued Windows XP in April of 2014 creating security concerns as Microsoft is no longer creating and applying security patches. For further information on the Windows XP end of support see <http://www.microsoft.com/en-us/windows/enterprise/end-of-support.aspx>.

	Version	Part Number
Viking Firmware Image	8.16.9	023-5796-20016
Armada Client	1.16.9	023-0601-20019
OTAP Server/Software	1.14.4	Included with Armada Client install package
Data Registration Server/Software	1.14.4	Included with Armada Client install package
Elite Battery Management	1.6.4	Included with Armada Client install package
SMA (Key Loader)	N/A	N/A

Application Kits

Application Kits includes software and cables (if applicable):

Armada

	Product Application	Part Number
Armada Kit, Viking Radio Series	Viking Portables	250-0600-70019
Armada Kit, Viking Mobile Series	Viking Mobiles	250-0600-78818
Armada Kit, Viking Portable & Mobile	Viking Portables + Mobiles	250-0600-79919

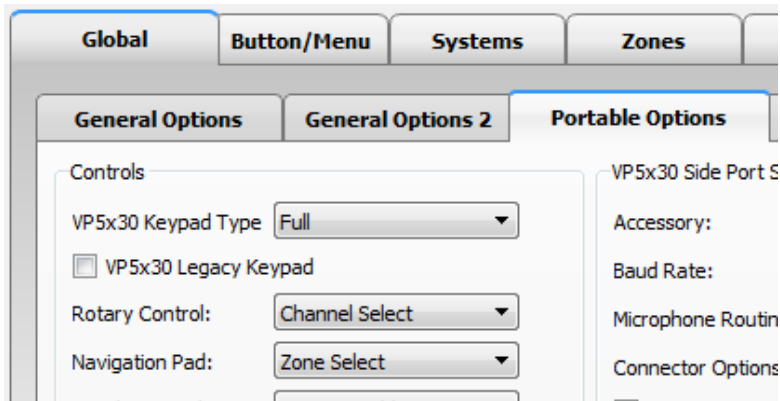
16.1 General Release – Viking Radio

This 16.1 Software Release introduces the support for the VP5000 series. This software does not introduce any new features for Viking VP400/600/900 with the exception of some hardware specific features.

VP5000 Series Software Differences

Following is a list of the software differences between the VP5000 series and Viking 400/600/900 radios:

- **Backlight Adjustment:** The backlight menu for VP5000 series provides a programmable option to cycle through backlight levels rather than just the On/Off that is available in Viking 400/600/900.
- **Location Services Parameters:** The Global -> General Options 2 -> GPS Data Sources has a unique value to the VP5000 series. This is designated by the label containing either “VPx00” or “VP5x30.”
- **Global Control Parameters:** The Global -> Portable Options -> Controls has separate values for the keypad type for the VPx00 and VP5000 series and are designated by the label containing either “VPx00” or “VP5x30.”
- **Legacy Keypad:** Support for the VP5000 radios manufactured prior to the Viking software port (legacy TK series radios have a different key layout for the F1-F4 buttons), a profile may be put into Legacy Mode. It is enabled with a checkbox on the Global -> Portable Options form in Armada for the VP5000 series interface.



- **Side Port Parameters:** The side port settings for the VP5000 series are separate from the VP400/600/900.
- **Button/Menu Parameters:** This feature allows the customer to program button configurations, soft buttons, menu items, function aliases, and accessory button configurations for the VP5000 series radio separately from the VPx00.
- **Key Retention time without Infinite Key Retention for VP5000 series radios:** VP5000 series radios only retain their keys without Infinite Key Retention set for 30 seconds. This time is less than VP400/600/900 radios and radio operators need to be aware of this.
- **GPS:** The VP5000 series radios use a different internal GPS module than VP400/600/900 radios. This result in a slightly redefined GPS icon behavior as well as data reported from the module.

New Features & Enhancements

New Features:

- **Enable Multiple Unit IDs for Duplicate Trunking Systems:** Armada now supports having two trunking systems with differing unit IDs on the same profile when linked to a template. Previously, the unit IDs of duplicate systems had to match or one would be erased.
- **Wireless Pacific X10DR Wireless Mic:** The VM400/600/900 now support the Pacific Wireless X10DR Wireless Mic. These allow end users to PTT and receive calls while farther away from their mobile radio than the traditional corded microphones allow.

Feature Enhancements

- **Armada P25 System Talkgroups Form Inter-System Changes:** Home and foreign talkgroups now have separate counters when Inter-System roaming is enabled, and each is limited to 2048. An “Add Foreign” button is also added to the form when Inter-System roaming is enabled.
- **Voice Announcement Fixes:** In versions of Armada prior to 1.16.x, voice announcements were managed in a way that could result in consistency problems. Removing or re-naming a voice file without validating a profile by hand would result in broken voice announcement assignments. Applied changes in the 16.1 release address these issues.
- **Print Interface Selection:** For a template or a radio with multiple interfaces, you can select which interfaces you would like to print.
- **Print for Viking Control Head:** The Viking Control Head is being added as an interface for the Viking Mobile. Print will now allow the Viking Control Head to be selected when printing.
- **Inter-System Roaming Type not Allowed on pre 8.10.x Radios:** Armada does not allow Inter-System P25 systems on firmware that does not support that feature.
- **Emergency Talkgroup ID Validation:** When Armada serializes a profile or template, it will now validate that the selected emergency group ID on the channel page exists in the system talkgroup list.
- **Apply Firmware – Browse:** Armada now allows you to import and apply a firmware update (.efi file) in a single step.
- **Auto Scan for RWS:** This feature will allow the customer to have Radio Wide Scan (RWS) turn on automatically on a per channel basis.
- **MUTED Indication:** A flashing “MUTED” message has been added to let them know the radio is muted.
- **Cursor Lock and Nav Up/Down Programming:** This feature allows users to lock the select knob so that it won’t switch the zone/channel cursor. It also allows users to program how they want their navigation Up/Down buttons to work.
- **Disable Scan List Select for P25 and SN/SZ:** This feature behaves the same as the conventional version. When checked, the user will not be allowed to use the press and hold function for the scan button on a per system basis.
- **SN/SZ Wide Channel Bandwidth Error Change:** When a radio with the “Wideband 25 kHz Disabled” option set has a SN/SZ system that has a channel bandwidth set to 20 or 25 kHz, an error will be reported and the profile will not be allowed on a radio.
- **Disallow Transfers in Extra Storage Failure State:** Armada previously allowed transfers to radios with hardware storage failure. This change makes the failure obvious, enabling customers to respond proactively to storage-related problems.
- **Firmware Update Requires 50% Battery Capacity:** Radios firmware upgrades now requires a battery percentage of 50 percent to be executed.
- **Portable Backlight Timer 99 Second Maximum:** The Portable Backlight Timer can now be set to a maximum value of 99 seconds.
- **Conventional Reset Scan List in Menu:** Reset conventional scan list is available by either pressing or holding the scan edit button or from the sub menu for scan edit.
- **WiFi Press and Hold:** Functionality was added to the WiFi button so that a press-and-hold action will cause the radio to enter into the WiFi info menu instead of through the main menu.

- **Secure Call Indication with Invalid Key:** If the radio receives an encrypted call but does not have the key, the radio will now indicate the call is secure instead of clear. This applies to P25 Conventional only.
- **Industry Canada Power:** The “Industry Canada Power” option has been added to limit output power to Canada requirements.

Manuals

The following documents support software release 16.1:

004-0604-202-01	OTAP Server Guide
004-0605-202-01	Data Registration Installation Guide
004-0606-200-01	Elite Battery Management Server Guide
002-0601-207-02	Armada Programming Manual
002-0600-045-07	Viking VP600/VP900 Portable Operating Manual
002-0600-035-04	Viking VM600 Mobile Radio Operating Manual

For questions regarding this Field Software Notice, please contact EFJohnson at 1.800.328.3911, option 3