

INSTRUCTIONS TO UPDATE FIRMWARE





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Updating the HDPQ SP's Firmware

The latest firmware release for the Dranetz HDPQ SP is available for download on <u>www.dranetz.com</u>. Once downloaded, you can update the HDPQ SP's internal program by using one of two methods:

- 1) Via a web browser and an Ethernet (or Wi-Fi, if available) connection. This method allows for updating the firmware remotely using a network connection, or locally when near the instrument. When using this method, the instrument can remain installed and there is no need to physically handle the instrument.
- 2) Via a USB flash drive inserted in the instrument and a VNC connection (using any valid communication method for the model instrument owned). This method requires a USB flash drive to be inserted in the instrument. The instruments VNC remote user interface is used to perform the firmware update.

For either method chosen, you must first establish communications with the instrument. Please refer to chapter 1, "Connecting to the HDPQ SP for the First Time" of the HDPQ SP Users Guide for instructions.

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Web Browser Firmware Update Procedure

You can update the HDPQ SP's internal program by downloading the latest firmware release from the web to install into internal memory. Refer to the instructions below on how to update the unit's firmware.

Firmware updates can be downloaded from the Dranetz website. Log on to <u>http://www.dranetz.com/technical-support-request/612-2/</u> for the latest information on firmware update releases.

Update Firmware via Ethernet The procedure below specifies how to update the firmware for the HDPQ SP via an Ethernet connection.

Step	Action
1	Copy or download the HDPQ SP firmware file to the desktop or other folder you specify on your computer. To download, use a web browser and access the Dranetz URL address_ http://www.dranetz.com/technical-support-request/612-2/
	Locate the latest version of the firmware update (data files "HDPQ-SP_Vx_x_x.hpk", note: x_x_x is the version number) from the Dranetz site. Dranetz regularly posts the latest information and instructions regarding HDPQ SP firmware update releases. After you have downloaded the firmware file on your computer, the succeeding steps will walk you through the process of uploading and
	installing the latest firmware to the HDPQ SP via Ethernet connection.
2	Establish Ethernet communications between your computer and the HDPQ SP. NOTE : For instructions on how to connect to HDPQ SP via Ethernet, see Chapter 1 Getting Started - Section on Connecting to the HDPQ SP via Wired Ethernet Connection.
3	Open a web browser and type in the HDPQ SP IP address followed by /boot on the address bar of the browser.
	For Example: 192.168.0.30/boot

Update Firmware via Ethernet

Step	Action		
4	Authenticate the username and password when prompted by the browser. Use the default username and password credentials provided below:		
	Default username = admin (written in lowercase)		
	Default password = Dranetz		
	<u>Result</u> : The following page should appear.		
	HDPQ Firmware Update		
	Select the firmware file to upload: Browse		
	Click on the Upload button to upload the selected firmware file (you can upload more than one file): Upload		
	Click on Install button to restart the HDPQ and install the uploaded firmware files: Install		
	Click on the Clear button to clear all uploaded files: Clear		
	Click on Restore Factory Settings button to restart the HDPQ and restore default settings: Restore Factory Settings		
	Click on Restart button to restart the HDPQ. Restart		
5	Click on the " Browse " button on the HDPQ SP Firmware Update page.		
6	Navigate to the folder location of the HDPQ-SP_Vx_x_x.hpk file that was copied to your computer in step #1.		
7	Click on the Upload button on the HDPQ SP's Firmware Update page.		
	Result: The message "Uploading firmware file" is displayed on screen.		
	C C Material 2012 Selection (C - C C HDPQ Firmware Update ×		
	r se Las View Pevones Tools Hep 🛸 😰 Jomainettintranet-ss		
	HDPQ Firmware Update		
	Select the firmware file to upload: C:Users'gnuzziDesktop/firmware hpk Browse		
	Click on the Upload button to upload the selected firmware file (you can upload more than one file): Upload		
	Click on Install button to restart the HDPQ and install the uploaded firmware files: Install		
	Click on the Clear button to clear all uploaded files: Clear Click on Restore Factory Settings button to restart the HDDO and restore default actings: Restory Settings		
	Click on Restart button to restart the HDPQ. Restart		
	Uploading firmware file		

Update Firmware, Via Ethernet, continued

	Step	Action
Update	8	After about 10 to 20 seconds, a message reporting "firmware.hpk uploaded successfully" is displayed on screen.
Firmware via Ethernet (continued)	9	Click on the Install button on the HDPQ SP's Firmware Update page.
× ,	10	After 10 to 20 seconds the web page should change to indicate "Firmware installation prompted. Restarting"
	11	After about 2 minutes, the instrument should reboot and come back online.
	12	Refresh the HDPQ SP webpage by pressing the browser refresh button or retyping the 192.168.0.30/boot address into your browser.
	13	Connect to the HDPQ SP via VNC and verify that the instrument has been updated to the latest firmware version by pressing the Status icon found on top of the Meters home page.
		NOTE : All data and setups stored in the HDPQ SP's memory may be lost when you update to the latest firmware. Major updates that require update of the operating system will automatically initiate a reset to factory defaults. This will erase all data and settings. Copy any files that you want to save to a computer or USB flash drive first before downloading firmware.

Update Firmware file via USB Flash Drive	An alternate procedure to update the HDPQ SP's internal program is by uploading the firmware by using a USB flash drive.				
	This requires a two step process that involves first downloading the firmware file from the Dranetz website into a USB flash drive, and then installing the firmware update to the HDPQ SP.				
Download latest Firmware file from Dranetz	The procedure below specifies how to download the latest firmware file from the web into a USB flash drive.				
website	Step	Action			
	1	Using a computer with a USB port, connect to the web and access the Dranetz URL address <u>http://www.dranetz.com/technical-support-request/612-2/</u> www.Dranetz.com. Locate the latest version of the firmware update (data files "HDPQ-SP_Vx_x_x.hpk" note: x_x_x is the version number) from the Dranetz site. Dranetz regularly posts the latest information and instructions regarding HDPQ SP firmware upgrade releases.			
	2	Insert the USB flash drive into the USB port in your computer.			
	3	Download the latest version of the HDPQ SP's firmware update program (data files "HDPQ-SP_Vx_x_x.hpk) from the Dranetz website to the USB flash drive. NOTE : All data and setups stored in your memory may be lost when you update to the latest firmware. Major updates that require upgrade of the operating system will automatically initiate a reset to factory defaults. This will erase all data and settings. Copy any files that you want to save to a computer or USB flash drive first before downloading firmware.			

USB Flash Drive Firmware Update Procedure

You can update the HDPQ SP's internal program by using a USB flash drive installed in the instrument. Since the HDPQ SP does not have a local interface, a VNC connection to a computer, tablet or smartphone is required to use this method. Please refer to chapter 1, "Connecting to the HDPQ SP for the First Time" of the HDPQ SP Users Guide on how to establish a VNC connection to the instrument.

The illustration below shows the high level process for updating the HDPQ SP firmware by uploading the firmware file contained in a USB flash drive.



- Download the latest firmware update release from the Dranetz website into the root directory of a USB flash drive.
- Once the firmware file is copied, insert the USB flash drive into the Micro USB socket on the right side panel of the instrument. Use the USB Micro Adapter cable (P/N USBMA-OTG) as necessary to connect the USB to the HDPQ SP unit.
- Establish a VNC connection to the HDPQ SP instrument. Click on the Setup Instrument icon to bring up the Instrument Settings menu, and proceed to select Update Firmware.

Action... Result... STEP 1: From the Home Screen, DRANETZ 01-24-17 7:55:45am press Setup Instrument MONITORING SUMMARY METER SUMMARY located at the lower right corner nitoring Status: ON of the screen File Name: HDPO1 Volts Amps 121.34 99.56 Duration: 11.66 days Α В Triggered Events: 0 Pressing the setup Timed Events: 177029 С D Memory Available: 3.541 of 3.883 GB 0.409 0.020 instrument icon will bring % Memory Full: 8.8 you to the next screen, to REAL TIME METERING STOP MONITORING Setup Instrum begin the update firmware Dharon View Data 6 **XXX** lhi... 3 \mathfrak{T} process. STEP 2: From the Instrument Settings menu, press Update E C 🔊 🕲 🗾 🔂 01-24-17 5:19:28am Firmware. The update firmware -Set Time and Date Update Firmware configuration screen prompts Select Language -Setup Sound whether or not you want to Setup Communications Options -Setup Display proceed with a firmware update. Reset Settings _ Manage Memory • If YES, make sure to insert the USB containing the firmware update file into the ADVANCED EXIT **USB connector on the right** side of the instrument, prior 05-25-14 to pressing YES. The instrument will automatically reboot and the firmware update procedure will commence. Setu Yes No Proceed to Step 3. ngs to Factory Defaults Manage Memory • If **NO**, the screen returns to the Instrument Settings menu without making changes. EXT HDPQ-514

The procedure below details how to install the latest firmware update to the HDPQ SP using a remote VNC connection.

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Action	Result
 STEP 3: Once the instrument restarts, a message indicating that a firmware package file has been detected is displayed. Press Yes to use the file to upgrade the instrument firmware. Proceed to Step 4. Press No to return to the Instrument Settings menu 	Charletz I (DPQ) I (Deconcocce P A firmware cackage files is detected. Do you want to update the firmware file? Yes bo Checking for new firmware.
changes.	HDPQ-515
STEP 4: Do not turn the power off or remove the USB device while the firmware update is in progress.	Updating firmware.
 STEP 5: If required, a second prompt may come up to ask if the low-level Kernel will be updated. Always Press Yes to update the Kernel. Once the Kernel update is done, the Home screen is displayed. Proceed to Step 6. 	Oranetz HoliQ Do you want to update the Kerne/2 This operation Do you wint to continue? The continue? The continue?

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If you require additional product support, contact the Dranetz Customer Support Department . Telephone: (732) 287-3680 or 1-800-372-6832.