



THE STANDARD FOR ENERGY & POWER MEASUREMENT

INSTRUCTIONS TO UPDATE FIRMWARE

FOR



Dranetz

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Update Firmware

You can update the DranXperT'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 instrument's firmware.

Firmware updates for all Dranetz products can be downloaded from the Dranetz website at:
<https://www.dranetz.com/technical-support-request/software-firmware-updates/>

Download the latest firmware file from the Dranetz website

The procedure below specifies how to download the latest firmware file from the web onto your local computer.

Step	Action
1	Using a computer, connect to the web and access the Dranetz URL address https://www.dranetz.com/dranxpert-firwmnare-update-formrequest-2/ The latest Firmware Update and instructions in the form of a single zipped file named "DranXperT_Vx_x_x.zip", note: x_x_x is the version number
2	Complete the form and click 'Download'. You will be prompted by Windows to choose a folder to save the firmware update file. After download, unzip the downloaded file by right click on it and selecting 'Extract all'. These instructions and the firmware files will be saved. The firmware update files are named "dranxpert1.x.xx.deb".

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The following procedure details how to install the latest firmware update to the DranXperT.

Connect to instrument via Ethernet connection

Step	Action
1	<p>Connect to your DranXperT via Ethernet connection. Open a web browser and enter the applicable IP into the address bar. (if set to default type in https://192.168.0.40) If communications to the instrument are working properly, the login window below will be displayed, prompting you to enter the username and password. If you do not see the message below your computer's network settings may not be properly configured or an incorrect IP address is being used. Enter the default Username: admin Enter the default Password: Dranetz The username and password are case-sensitive and must be entered as shown.</p>
2	<p>Before upgrading firmware save data and setups if you want to archive any of the instrument files.</p> <p>NOTE: All data and setups stored in the DranXperT's memory may be lost when you update to the latest firmware. Copy any files that you want to save to a computer before upgrading firmware.</p>

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Connect to instrument via Ethernet connection

Step	Action
3	<p>From the status screen verify the Kernel version V1.x.x before upgrading the firmware.</p> <p>Is it version V1.0.xx or Version V1.2.xx?</p>  <p>Version V1.0.xx If your DranXperT Kernel firmware version is in the range of Kernel 4.19.97-10-D-1.0.4 to Kernel 4.19.97-10-D-1.1.80 You must first update to V1.1.81 (included with the firmware download) before upgrading to a higher version V1.2.xx.</p> <p>Version V1.2.xx If your DranXperT Kernel firmware is V1.2.0 or higher you only have to update to the latest available V1.2.3 (or higher).</p>
4	<p>Clear browser cache by pressing Ctrl, Shift, and Delete keys at the same time</p> <p>Close the web browser before proceeding to update the instrument's firmware.</p> <p>Continue to the next page and verify the version has been updated.</p>

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Updating Firmware from V1.1.xx

The procedure below specifies how to upgrade from V1.1.xx if your Kernel image is in the range of Kernel 4.19.97-10-D-1.0.4 to Kernel 4.19.97-10-D-1.1.80.

Step	Action
1	Open a new browser window
2	Connect to the DranXperT IP Address you are updating to V1.1.81
3	<p>Update Firmware to V1.1.81 filename dranxper1.1.81.deb Select Factory>Update Firmware from main page and follow the on screen instructions.</p> <p>Note: For Kernel images 4.19.97-10-D-1.0.4 to Kernel 4.19.97-10-D-1.1.80 it is required to update to V1.1.81 before updating to V1.2.0</p>

Select Factory>Restore Factory Default (Keep IP) and allow to complete the process. Clear browser cache by pressing Ctrl, Shift, and Delete keys at the same time.

Close the browser window by pressing the Alt and F4 keys at the same time.

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**Updating
Firmware from
V1.1.xx**

Verify Firmware version after upgrade.

Step	Action																												
1	Open a new browser window																												
2	Connect to the DranXperT IP Address you are updated to verify the Instrument Status screen																												
3	<p data-bbox="532 541 1414 611">From the status screen verify the Kernel version V1.x.xx has been updated to the applicable updated version.</p>  <table border="1" data-bbox="532 772 1414 999"> <thead> <tr> <th colspan="2">Instrument Status</th> </tr> </thead> <tbody> <tr><td>Model</td><td>DranXpert</td></tr> <tr><td>Serial #</td><td>DRXP0QA009</td></tr> <tr><td>Version</td><td>V 01.01.081</td></tr> <tr><td>OS Information</td><td>Kernel 4.19.97-10-D-1.1.80-GB</td></tr> <tr><td>Survey Name</td><td>Survey</td></tr> <tr><td>Monitoring Status</td><td>Off</td></tr> <tr><td>Active Database File</td><td>(null)</td></tr> <tr><td>Last File Auto-Deleted</td><td>None</td></tr> <tr><td>Storage Available</td><td>3757 MB</td></tr> <tr><td>Power Source</td><td>Line</td></tr> <tr><td>Charging</td><td>Yes</td></tr> <tr><td>Battery Level</td><td>100%</td></tr> <tr><td>Language</td><td>English</td></tr> </tbody> </table>	Instrument Status		Model	DranXpert	Serial #	DRXP0QA009	Version	V 01.01.081	OS Information	Kernel 4.19.97-10-D-1.1.80-GB	Survey Name	Survey	Monitoring Status	Off	Active Database File	(null)	Last File Auto-Deleted	None	Storage Available	3757 MB	Power Source	Line	Charging	Yes	Battery Level	100%	Language	English
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Updating Firmware from V1.2.xx

The procedure below specifies how to upgrade from V1.1.81 or higher.

Note:

When upgrading firmware version V1.1.80 (or below) you must first upgrade to V1.1.81 before upgrading to V1.2.xx or higher.

DO NOT SKIP VERSIONS OR UPGRADE INSTRUCTION STEPS

Step	Action
1	Open a new browser window
2	Connect to the DranXperT IP Address you are updating to V1.2.xx
3	<p>Select Factory> Update Firmware</p> 
4	<p>Follow the steps below to upgrade DranXperT's firmware. The firmware update wizard will guide you through the process. The current step is highlighted in GREEN as shown in the picture above. Once a step is completed the next step will be highlighted.</p> <p>Click the <i>Clear</i> button to clear previously updated firmware.</p> <p>Click <i>Browse</i> to locate the firmware update file that you downloaded from the Dranetz website. Note that DranXperT firmware files have a '.deb' file extension. Select the firmware file and click <i>Open</i>.</p> <p>Click the <i>Upload</i> button to upload the firmware update file to DranXperT.</p> <p>Click the <i>Update</i> button to begin the firmware update process or click <i>Cancel</i> to abort.</p> <p>When the firmware update process has completed it will be highlighted in GREEN.</p>

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**Updating
Firmware from
V1.2.xx**

Step	Action																																																																
5	<p>Once the firmware update is completed, select Factory>Restore Factory Default (Keep IP) and allow to complete the process. Clear browser cache by pressing Ctrl, Shift, and Delete keys at the same time</p> <p>Close the browser window by pressing the Alt and F4 keys at the same time. The firmware update is complete</p>																																																																
6	<p>Open a new browser and check the Information > Status page to verify that the version displayed matches the new version installed.</p> <div data-bbox="532 877 1424 1331" style="border: 1px solid black; padding: 5px;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e6f2ff;">Information</td> <td style="background-color: #e6f2ff;">Setup</td> <td style="background-color: #e6f2ff;">Data</td> <td style="background-color: #e6f2ff;">Factory</td> </tr> <tr> <td colspan="4" style="text-align: center;">Instrument Status</td> </tr> <tr> <td colspan="4" style="text-align: center;">Instrument Status</td> </tr> <tr> <td>Model</td> <td colspan="3">DranXpert</td> </tr> <tr> <td>Serial #</td> <td colspan="3">DRXP0QA033</td> </tr> <tr> <td>Version</td> <td colspan="3">V 01.02.003</td> </tr> <tr> <td>OS Information</td> <td colspan="3">Kernel 4.19.97-10-D-1.2.0-GB</td> </tr> <tr> <td>Survey Name</td> <td colspan="3">Survey</td> </tr> <tr> <td>Monitoring Status</td> <td colspan="3">Off</td> </tr> <tr> <td>Active Database File</td> <td colspan="3">(null)</td> </tr> <tr> <td>Last File Auto-Deleted</td> <td colspan="3">None</td> </tr> <tr> <td>Storage Available</td> <td colspan="3">3743 MB</td> </tr> <tr> <td>Power Source</td> <td colspan="3">Battery</td> </tr> <tr> <td>Charging</td> <td colspan="3">No</td> </tr> <tr> <td>Battery Level</td> <td colspan="3">97%</td> </tr> <tr> <td>Language</td> <td colspan="3">English</td> </tr> </table> </div> <p>Please contact Dranetz for any assistance if required. Telephone 1-800-372-6832 or 732-287-3680</p>	Information	Setup	Data	Factory	Instrument Status				Instrument Status				Model	DranXpert			Serial #	DRXP0QA033			Version	V 01.02.003			OS Information	Kernel 4.19.97-10-D-1.2.0-GB			Survey Name	Survey			Monitoring Status	Off			Active Database File	(null)			Last File Auto-Deleted	None			Storage Available	3743 MB			Power Source	Battery			Charging	No			Battery Level	97%			Language	English		
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