How to upgrade your DFD's software with DFD Programmer.

🐻 Sonatest DFD Programmer	
Exit Settings Mode	
Software Download	
DFD Model	
Target Country	
◯ Set1 ◯ Set2 ◯ Set3 ◯ Set4 ◯ Set5 ◯ S	Set Sonatest
Slot 1 Slot 4	 Image: A state of the state of
Slot 2 Slot 5	
Slot 3 Slot 6	
Scan Languages	
Serial Number	
Download	
Communications Setting	
Comm Port	
Model String	
Using USB->RS232 Converter	
Connect Auto Scan	
	Software Version : 2.0.2.0

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- Version 2: Update Run as an Administrator.
- Version 3: Activate option Mode.
- Version 4: Warning about removing file.
- Version 5: Add Language Pack install process.
- Version 6: Add instruction about driver and connection cable.

First, you must assure that you have installed the **VS_FALCON** driver and you can download it in the following link:

http://sonatestap.com/SoftwareUpdates/DFDProgrammer/

You have to choose between <u>VSFalconDrivers</u> x64.exe and <u>VSFalconDrivers</u> x86.exe.

- X86 is for computer system using window 32 bits.
- X64 is for computer system using window 64 bits.

For **Masterscan** and **Sitescan**, you have to use a RS-232 cable. Connect in the back of your unit to your PC by using a RS-232 converter to USB.

For **D-series** and **D-series+**, you have to use cable Lemo to USB. Connect in the front your unit to your PC.

Run the application as a **Administrator** by right clicking the application **Kestrellicence** in the following path: C:\Program Files\Sonatest Limited\DFD Programmer

1. Verify that you have the latest version of .hex file to update your unit by selecting the menu **Settings->Download Updates.**

🗃 Sonatest DFD Programmer								
Exit	Sett	tings	Mode					
- Soft		Feat	ure Unlo	ck 🛛				
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- CLar	nguag	es						
				🔡 Download				
				Falcon Versior	n 2 :	V2.51	View Dir	
				Falcon Versior	n 3 :	V3.25	View Dir	
				Kestrel Versior	n 2 :	V2.02.01	View Dir	
				Kestrel Versior	n 3 :	V3.24	View Dir	
				Download.ini Versi	on :	16		
				Software Versi	ion :			
				N/A			Check For Updates	

Press the button **Check For Updates** will automatically download the file and wait until it show a message that it download the file or No update are available.

If you don't have the option **MODE**, select the menu **Settings** -> **Feature unlock** and enter the password: **NOTTINGHAM**

Restart the application so it takes effects.

A reminder, upgrading your unit, will erase all your Panel, Alog file etc Use SDM 3 to transfer your file to your PC and save them as .dfd file.

🐞 Sonatest DF) Programmer	
Exit Settings	Mode	
Software Down	Advanced Download	
DFD Model		
Languages-		
Target Cou	ntry 🔽	
🔾 S	et1 🔿 Set2 🔿 Set3 🔿 Set4 🔿 Set5 🔿 Set6	Sonatest
Slot 1	Slot 4	
Slot 2	Slot 5	
Slot 3	Slot 6	

2. When you are done, press the **Advanced Download** in the menu **Mode**.

3. You will have the following views:

Softwara		Communications
Sorial Number		Port
File Name		Baud 57600
Get Serial Number	Erase Memory	USB->RS232 Converter
Assign Serial Number	Erase & Download	Scan
Start DED	Clear Options	
Languages		
Slot 1 Unknown		
Slot 2 Unknown		
Slot 3 Unknown		
Slot 4 Unknown		
📃 Slot 5 Unknown		
Slot 6 Unknown		
Scan	Erase	Download
Label3		

4. You have to turn your DFD unit off and boot with the button **HELP** pressed during the boot time.

- 5. Connect your DFD to your PC.
- 6. Select the correct **Port** and set the **Baud** to **57600** by default
- 7. The connection is correctly connected when you see the correct Serial Number and the button **Scan** turned to **Disconnect** as follow:

**if you don't have a serial number, you can still enter a new one and use the button Assign Serial Number after the upgrade.

Advanced Load		
Exit Mode		
Software Serial Number 1006327 File Name Get Serial Number		Communications Port COMM2 Baud 57600 USB>RS232 Converter
Assign Serial Number	Erase & Download	Disconnect
Start DED	Clear Options	
Jacoro		
Languages		
Slot 1 Unknown		
Slot 2 Unknown		
Slot 3 Unknown		
Slot 4 Unknown		
Slot 5 Unknown		
Slot 6 Unknown		
Scan	Erase	Download
Label3		

 Use the button "…" to select the correct .hex file to upgrade your DFD. You will be able to find the hex file in the following path : C:\Program Files\Sonatest Limited\DFD Programmer. There are two folder that identified the type of unit you have Kestrel HexFiles and Falcon HexFiles.

For example: I update a D-series 20+, so I will have to take the following file:

C:\Program Files\Sonatest Limited\DFD Programmer - Internal\Kestrel HexFiles\Kestrel V3\ ds_20.hex

Software			
Serial Number	1006327		
File Name			
Get Serial Nu	mber	(Erase Memory
Assign Serial N	umber	(Erase & Download
Start DFD		(Clear Options

- **9.** When you are done, press the button **Erase & Download**. It will start to upgrade your DFD and you will see the progress bar on the bottom.
- 10. When it is done, press Assign Serial Number. Press button Disconnect after, you are done!

To install Language Package:

- 1- Select Advanced Download in the menu Mode.
- 2- Put your unit in Download mode by pressing the button **HELP** when booting the unit.
- 3- Connect your unit to your PC, select the correct Port.
- 4- Set Baud to 57600 and press button Scan.
- 5- You will see the button Scan turned to Disconnect.

In the section Languages, you will be able to select the language you want to download into your unit by pressing the button "..." on each slot. Select the file in the following path depends on your unit:

For D-20, D-20+, D10: C:\Program Files\Sonatest Limited\DFD Programmer\Kestrel HexFiles\Kestrel V3

For Masterscan and Sitescan : C:\Program Files\Sonatest Limited\DFD Programmer\Falcon HexFiles\FALCON V3

Here the following file that you can select:

- 1- HELP_CHI = Chinese.
- 2- Help_CZ = Czech.
- 3- Help_DE = German.
- 4- Help_ES = Spanish.
- 5- Help_FI = Finnish.
- 6- Help_FR = French.
- 7- Help_GB_K = English United kingdom.
- 8- Help_HU = Hungarian.
- 9- Help_IT = Italian.
- 10- Help_PL = Polish.
- 11- HELP _PT = Portuguese.
- 12- Help_RU = Russia.

When you are done select the file on each slot you need, you press the button **Download**. Progress bar will show the status and language will be displayed beside the Slot # as follow:

随 Advanced Load				
Exit Mode				
Software Serial Number 1006327 File Name Get Serial Number Assign Serial Number Start DFD	 Erase Memory Erase & Download Clear Options	Communications Port COMM2 Baud 57600 USB->RS232 Converter Disconnect		
Languages Slot 1 Hungarian Slot 2 German Slot 3 Italian	Programmer\Kestrel HexFiles\ Programmer\Kestrel HexFiles\ D Programmer\Kestrel HexFile;	Kestrel V3\Help_HU.hex Kestrel V3\Help_DE.hex		
Slot 5 Portuguese	Programmer\Kestrel HexFiles\ C:\Program Files\Sonatest Lim	Kestrel V3\Help_PL.hex		
Slot 6 English	rogrammer\Kestrel HexFiles\Ke	estrel V3\Help_GB_K.hex		
Scan Erase Download Downloading Software Complete				

You can press Disconnect when you are done.

When you want to erase a language, you have to select the slot you want to delete and press **Erase**.

Languages	
🗹 Slot 1 Hungarian	Programmer/Kestrel HexFiles/Kestrel V3/Help_HU.hex

Using the button **Scan** will display language available in your unit.