Abstract

Our Set-Top-Boxes ("STB") are delivered with stable and easy-to-use software, passing our strict quality controls. However, we are steadily updating our software to improve functions or add-ups to your convenience. We recommend to upgrade your STB by our newly released updates to enjoy better functionality and stability.

Please visit our **http://www.i-topfield.com** to stay updated on helpful updates, utilities, drivers and manuals. You can also find information on new product releases and the latest corporate news.

Execute the Topfield Windows Applications Setup.exe.

The utilities will be installed automatically by selecting your receiver in the installation sequence.

Following Upgrade methods are available for your STB.
(1) STB to STB download via RS232C
(2) PC to STB download via RS232C
(3) OTA
(4) PC to STB download via USB

Pin Assignment for serial cables (RS232, 9-Pin)

The pin assignment of serial cables (RS232) are applied as below:

PC pin 2 <-> STB pin3 PC pin 3 <-> STB pin2 PC pin 5 <-> STB pin5

For the upgrade through the serial interface, only the above mentioned 3 pins are applied. The other 6 pins do not require any attention.

STB to STB download via RS232C

This method is mostly used for STBs including PVR when equipped with a serial port (RS232). Somehow provider specific models do not have the port integrated, due to security reasons. In such cases the **STB to STB download via RS232C** is not supported.

Please refer to the downloading sequence as below:

- 1. Turn off the target STB.
- 2. Connect the parent STB and the target STB with a serial cable (RS232C).
- Select Transfer Firmware in the Installation menu of the parent STB. (Some models show Transfer Program to Other IRD instead of Transfer Firmware. But you can proceed in the same sequence. Please refer to the screen shots shown below.)

LNB Setting	
Service Search	
Motorized DiSEqC 1.2	
USALS Setting	
SAT/TP Edit	
Factory Setting	
System Recovery	
Transfer Program to Other IRD	
Transfer Data to Other IRD	
Firmware Upgrade	

- 4. Select Transfer Program to Other IRD menu of the parent STB.
- 5. Confirm with Yes.

LNB Setting		
Service Search		
Motorized DiSEqC 1	2	
USALS Setting	Confirm	
SAT/TP Edit	Transfer program to other IRD?	
Factory Setting		
System Recovery	Yes No	
Transfer Program		
Transfer Data to Or	ner IKU	
Firmware Upgrade		

6. Then turn on the target STB and the download starts automatically.

Ir	nstallation	_	
LNB Settin	ıg		
Service Se	arch		
Motorized	DiSEaC 12		
	Transfer Pro	gram to Other I	RD
T			
System Re	ecovery		a per se a
Transfer I	Program to Other IRI		
Transfer I	Data to Other IRD		
Firmware	Upgrade		
		N. HALVAL	

7. Please do not interrupt the download process before complete finish. Even when the process bar reaches the end, the writing process of the flash memory might not be completed and could cause fatal effects. The completion will be shown by displaying 'End' in the display of the front panel. Models without a display indicate the complete procedure by blinking of the green LED on the front panel.

- 8. Turn off the target STB.
- 9. Remove the RS232C cable.

PC to STB download via RS232C

This method is also very common among STBs including PVR. Somehow provider specific models do not have the port integrated, due to security reasons. In such cases the **STB to STB download via RS232C** is not supported.

We provide following two utilities to ease the upgrade procedure: -**TFD-DOWN.exe :** For all models except Irdeto CAS embedded models (e.g. TF5000PVR)

-SDL Downloader.exe: Irdeto embedded models (e.g. TF3200IR)

Please refer to the downloading sequence as below:

- 1. Download the **Utility** suitable to your STB onto your PC.
- 2. Turn off the target STB.
- 3. Connect the PC and target STB through a serial cable (RS232C).
- 4. Run the Downloading Utility.

🕞 TFD DownLoad	Man	ager		×
File Name 📕			Fir	(br
Download	\supset	\subset	Port Setup	\supset
Stop	\bigcirc		Exit	\supset
Message TFD File Downloa	ad M	lanagi	er.	

5. By clicking the **Find** button, you will have access to your system tree to choose the required new firmware file. After your selection the adequate file name will be displayed in the **File Name** bar

🔂 TFD DownLoad	Man	ager		×
File Name Sys_1216-2003Dec15.tfd Find				
Download	\supset	\subset	Port Setup	\supset
Stop	\bigcirc	C	Exit	\supset
- Message				

6. After clicking the **Start** icon of the **Downloading Utility**, the next screen shot will be displayed as shown below.

😚 TFD DownLoad	Mana	ager		×
File Name Sys	5_121	6-200	33Dec15,tfd Fir	d)
Download	\bigcirc	\subset	Port Setup	\supset
Stop	\bigcirc	C	Exit	\bigcirc
Message Waiting For Requ	est, f	Rese	t SetTop Box,	

7. Turn on the target STB and the download will automatically start.

🙃 TFD DownLoad File Name 🕞 Sys		103Dec15,tfd (Fin	× D
Download	D C	Port Setup	D
Stop	5 C	Exit	5
	58%		_
Message Downloading Pro	cessing,		

8. Please do not interrupt the download process before complete finish. Even when the process bar reaches the end, the writing process of the flash memory might not be completed and could cause fatal effects. The completion will be shown by displaying 'End' in the display of the front panel. Models without a display indicate the complete procedure by blinking of the green LED on the front panel.

- 9. Turn off the target STB.
- 10. Remove the RS232C cable.

OTA (Over - The - Air Upgrade)

This method is currently mostly used for digital satellite receivers incl. PVRs and allow you to receive new updates only by setting up the adequate parameters of the specific satellite transponder and the upgrade will be executed automatically over the air. The OTA upgrade is available for following models.

	ing measure
1) TF5500PVR	2) TF5000PVR
3) TF4000PVR	4) TF4000PVRCOCI
5) TF5000CI	6) TF5000Fe
7) TF4000Fe	8) TF4000Fi
9) TF3000Cipro	10) TF3000COCI
11) TF3000CIPpro	12) TF3000Fei
13) TF3000Fi	14) TF3030F
15) TF3100FEPpro	

The launch of new updates will only be done on availability.

Please refer to the downloading sequence for the OTA update as below:

1. Select Firmware Upgrade in the Installation menu of the parent STB.

OTA upgrades are currently only supported over the Astra and Hotbird4 transponders.

2. Set all necessary parameters. (Please refer to the TP parameters as shown bellow)

Astra	Hotbird 4	
Frequency: 12603 MHz	Frequency: 12673 MHz	
S/R: 22000 KS/s	S/R: 27500 KS/s	
Polarity: Horizontal	Polarity: Vertical	
PID: 347	PID: 730	

Please set the parameters suitable for your area and footprint.

Start the OTA upgrade, please select the Start button and press OK.
 An OTA upgrade takes up to several minutes for the download due to the limited bandwidth.

For your convenience, we provide you with contingently information on further available satellites or transponder details. You can add or change them easily to your STB. Detailed information are released on <u>www.i-topfield.com</u>.

PC to PVR download via USB (Universal Serial Bus)

This method requires STBs equipped with a USB interface. We currently only support this method on our TF5000 PVR.

Please refer to the downloading sequence as below:

1. Install the TFDN_USB.

Run the Topfield Windows Applications Setup.exe.

The utilities including TFDN_USB will be installed automatically by selecting your receiver.

(Other method to install the TFDN_USB :

Please download the zip file **Software download tool for USB (TFDN_USB)**, which includes the two driver files **tfbulk.sys** and **tfbulk.inf** from our website.

Extract the downloaded file to a separate directory (Please refer to the instructions of your zip tool). Our USB driver is currently supporting MS Windows 9.x, NT/2000/XP. To install the driver, please select the **tfbulk.inf file** click the right mouse button. By choosing the **Install** menu point, the two driver files are copied automatically to the appropriate directories in your system.

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After the installation explained above, execute the tool TFDN_USB.exe.

- 2. Turn off the STB.
- 3. Connect the STB with your PC through a USB cable.
- 4. Start the download software (TFDN_USB).

5. By clicking the **Find** button, you will have access to your system tree to choose the required new firmware file. After your selection the adequate file name will be displayed in the **File Name** bar.

🚾 TFD-USB-DOWNLOAD	<u> </u>
FileName	Find
Download	
Stop and Exit	
Message	

6. Click the **Download** icon to start the download procedure.

🔤 TFD-USB-DOWNLOAD	_ 🗆 🗙
FileName D:#MYDOCU~1#TF5000~2.TFD	Find
Download	
Stop and Exit	
Message Wait Download	

7. Now turn on the target STB and the download will start automatically.

TFD-USB-DOWNLOAD				
FileName D:#MYDOCU~1#TF5000~2.TFD	Find			
Download				
Stop and Exit				
Message Downloading Processing				

- 8. Please do not interrupt the download process before complete finish. Even when the process bar reaches the end, the writing process of the flash memory might not be completed and could cause fatal effects. The completion will be shown by displaying 'End' in the display of the front panel.
- 8. Turn off the target STB and remove the USB cable.
- IMPORTANT: If you should encounter conflicts with your operating system and the USB port, we strongly recommend to download the Windows USB patch, which can be downloaded on Microsoft's website (http://www.microsoft.com)