

Specifications:

Recording capacity (approx.):

TenBox Model	Standard TV	HDTV (MPEG-4)	Capacity
<input type="checkbox"/> TB1000	667 hours	167 hours	1.0 Terabyte
<input type="checkbox"/> TB1500	1000 hours	250 hours	1.5 Terabyte
<input type="checkbox"/> TB2000	1333 hours	330 hours	2.0 Terabyte
<input type="checkbox"/> TB3000	1000 hours*	250 hours*	3.0 Terabyte

* DirecTV Plus HD DVRs are not ready yet to function with 3TB external capacity. Until then, the TenBox TB3000 works perfectly when setting the "Box Mode" to Mirror Drive configuration, safely recording programs as duplicate on its 2 1.5 TB HDD, so programs are not lost in the event of single drive failure.

External Interfaces: SATA/USB dual mode

eSATA : SATA I - Up to 1.5 Gbps
SATA II - Up to 3 Gbps
USB 2.0: up to 480 Mbps

eSATA HDD Controller:

RAID SATA controller with Plug-n-Play capability, also compatible with Windows, Mac OS X, and Linux environments

SATA Hard Drives

2 high performance SATA Hard Drives.

Power Supply: AC Voltage: 100~240 VAC / 47~63 Hz AC

Dimensions: Width: 14.875" - Height: 2.625" - Depth: 12.187" - Weight: 8.25 lb

Warranty: 1 year for parts and labor. 3 years on the HDDs.

Accessories: Power Supply
Power Supply line cable
eSATA cable
Instructions

NOTE 3: When the TenBox is connected to a DirecTV HD DVR, it is driven by DirecTV's software. If the HR20/21/22/23 malfunctions or suffers a software glitch, it may cause programs stored in it and/or the TenBox to be lost. The HR20/21/22/23 and the TenBox are not to be considered permanent storage or library; programs are saved to be accessed and watched later. Programs stored on the TenBox while connected to a specific DirecTV HD DVR can only be watched when connected to the same DirecTV HD DVR.

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Manual version: 005
Download the latest manual version at:
www.tenbox.net



TenBox®

HDTV & Multimedia eSATA Storage Box

The ultimate
recording capacity expander for
DirecTV Plus HD DVRs.

TB1000

TB1500

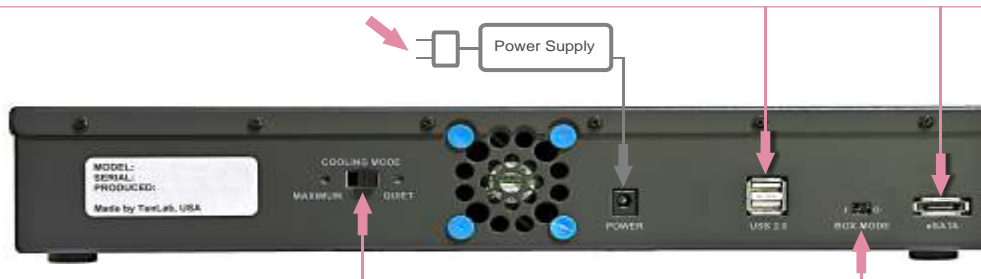
TB2000

TB3000

Instructions

- ALWAYS ensure proper ventilation. **DO NOT** block the TenBox rear fan vents and **DO NOT** stack the TenBox on top of any electronic device that runs hot.
- The TenBox may be placed on top of DirecTV receivers that do not have top ventilation slots if proper airflow is present. NOT in closed spaces, close-door cabinets, closed containers, etc. **DO NOT** install the TenBox on top, underneath, or close to "hot components" such as Audio Power Amplifiers, Cable Boxes, etc.
- When installing the TenBox in very tight or poor ventilated spaces set the Cooling Mode switch to **MAXIMUM**.
- To avoid service interruptions in the event of a power failure, it is recommended that you connect your DirecTV Plus HD DVR and the TenBox to an uninterrupted power supply (UPS).

1 Connect the power supply to the TenBox and to the power line. If connecting to a different DVR or computer you may also use the USB port. Change settings of Cooling Mode and Box Mode Switches if needed.



Cooling Mode Switch: QUIET is the most silent fan speed for typical home installation. Set to MAXIMUM when installing the TenBox in poor ventilated environments as closed cabinets, boats, planes, etc. **ALWAYS** ensure proper ventilation. **DO NOT** block the rear ventilation slots.

BOX MODE Switch: Set to "0" for maximum storage capacity (striped drive). Set to "1" to operate at half the maximum capacity, storing programs in "mirrored drive" configuration, so programs are not lost in case of single drive failure.

2 Push the TenBox Power button and all LEDs will flash momentarily. The TenBox is ready when HDD 1 & 2 Status LEDs are solid blue. Connect the eSATA cable to the TenBox and HR20/21/22/23 (blue lights may remain ON or OFF depending on the receiver and software version).



Controller Activity

Controller Activity LED: Blinks Amber whenever there is information transfer from/ to the TenBox or when connected to a PC.

HDD 1-2 Status

HDD 1 & 2 Status LEDs: Solid Blue when HDDs operate normally. Will blink along with the Controller Activity Led in case of HDD failure.

HDD 1-2 Activity

HDD 1 & 2 Activity LEDs: blink Green when data is being transferred between the DVR and the TenBox. Will blink along with the HDD Status LED in case of HDD failure.

3 Restart your DirecTV HR20/21/22/23 from the remote selecting Menu > Help & Settings > Setup > Reset > Restart Receiver > Dash. Wait for the DirecTV receiver to restart. During that process, the TenBox lights will blink several times. When restart is complete, there will be no programs stored (if you still see your old recordings, repeat Restart). You will have to enter your Preferences, To Do list, etc (as if you were connecting a new HR20/21/22/23).

NOTE 1: If after restarting your DirecTV receiver as described in Step 3, you can still see your old recordings, then the TenBox has not been "seen" yet. This may be due to a number of reasons, including different software versions on different models of HR20/21/22/23. Do as follows: Turn power of TenBox OFF - Set Box Mode Switch (on back) to "1". Turn power of TenBox ON - There will be a quick yellow/orange blink of LEDs, then only 2 blue LEDs will remain. Turn power of TenBox OFF - Set Box Mode Switch to "0" - Turn power of TenBox ON. When the 2 LEDs are solid blue, repeat Step 3.

NOTE 2: To watch programs previously stored in the HR20/21/22/23 internal HDD, "Restart" the HR20/21/22/23 and turn the TenBox OFF when the blue light ring of LEDs on the HR20/21/22/23 goes dark. To return to programs stored on the TenBox, repeat Step 3. **DO NOT** switch Box mode 0/1 once you have already recorded programs, as it will cause recorded programs to be deleted.