



EchoStar Software for use with the EchoStar PVR-5020 Satellite Receiver.
© EchoStar Int. Corp. All rights reserved.

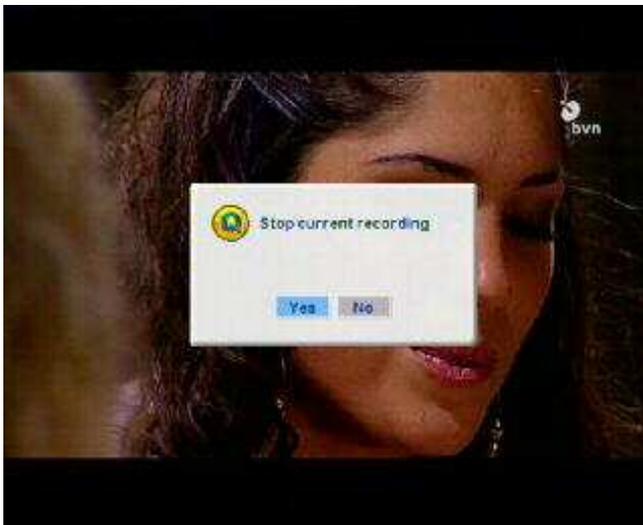
ATTENTION:

**It is required to format the Harddrive after loading this version.
This is due to new FAT32 drivers.**

Please mail your reactions & feedback to: echonav.beta@echostar.com

The following issues have been addressed in this software release (108_V914) compared to previous version (107_V811)

1. MP3 via SPDIF (optical out) to enjoy your MP3's on you home cinema system.
2. TPS problem with new Viaccess smartcard solved.
3. PMT is monitored so that audio PID changes are handled automatically.
4. Playback of scrambled recordings improved.
5. HDD file management improved. (Strange files & folders)
6. Added a new feature to let the unit go to standby after a timer or recording has ended.



If a timer is still running and if you for instance want to go to bed, you now can press the standby button. You will see the pop up shown in this picture which you can leave on the screen. When the timer ends the unit will automatically go to standby.

Same goes when you want to record the remainder of a program you are watching but you want to go to bed.

Just press the record button twice and edit the recording duration (confirm with OK) and then just press the standby button and leave the pop up on the screen. When the recording ends the unit will automatically go to standby.

7. Added a new feature which adds conflict handling in the channel list while recording.



Now if you are recording one or more channels it will indicate the channels in the channellist that are not available by displaying those channel names in black.

However if you select one of those channels anyway you will get a pop up asking you which recording you want to stop in order to watch that channel. (See next picture)



Here you can select which recording you want to stop, or select cancel if you do not want to stop a recording. Once the recording is stopped you will automatically see the channel you selected.

- 8. Fixed an issue with MediaHighway EPG on Sundays.
- 9. Fixed problem with Teletext that was not always showing.
- 10. Added the possibility to jump to a place in the recording by simply entering the percentage.



While watching a recording just enter a 2 digit number on your remote. You can enter any number between 0 & 95. So if you want to go to 90% of the recording just pres 90 and the receiver will jump to that location.

- 11. Reduced HDD noise to a minimum.
- 12. Fixed audio hick-ups/dropouts during playback of recordings.
- 13. Fixed audio hick-ups/dropouts during live view.
- 14. Fixed error with the virtual keyboard.
- 15. Fixed an issue with extended event information. (Could not scroll down)
- 16. Some minor cosmetic fixes.

There are 2 ways to update the software:

1 Via serial loader:

- a) Find the latest softwareloader version for your receiver on our internet site <http://www.echostar-int.com>
- b) It can be found in: Support-->Downloads-->PC-Software and find your PVR-5020 Software loader
- c) Read the ReadMe.txt which comes with the softwareloader for instructions on how to load this software in your receiver

2 via USB:

- a) Alternatively you can also update the receiver over USB by placing the software in the "\PVR\Firmware" Directory on your receiver
- b) Safely disconnect the receiver from the PC!
- c) Press the PVR button on the remote of the receiver.
- d) Press the Right button twice
- e) Select the latest software version
- f) Confirm to load the software.

About USB

!!! Attention !!!

Before disconnecting your PVR-5020 receiver from your PC always safely disconnect first!

Steps to do so:

- 1- Click the remove hardware icon in your computer's taskbar.
- 2- In the Unplug or Eject Hardware dialog box, click the option for the USB Mass Storage Device.
- 3- In the Stop a Hardware device dialog box, click OK.
- 4- In the Safe to Remove Hardware dialog box, click OK.
- 5- Disconnect the USB cable from your PVR-5020.

It is also advised not to use a USB hub but to connect the receiver directly to the PC to get maximum performance.

About the File system

Important note – due to the inclusion of a new FAT32 driver the file system is not backwards compatible. This means that it is possible to playback recordings made with pre-105_v602 software, but it is not possible to playback recordings made with 105_v602 software (or later) with pre-105_v602 software version (in case the user loads pre-105_v602 software).
