Specification Document for DVR

Feature List for DVR

 • Basic Recording Features

 • Single Recording by program

 • Single Recording by time and channel

 • Recurring Recording by program

 • Auto Recording wishlist programs

 • Recording the show you are currently watching

 • Recording more than one program on at the same time

 • Controlling a set top box (cable/satellite box)

 • Identifying Duplicate Recordings

 • Digital Television

 • Record and play back digital cable channels

 • Record and play back HDTV terrestrial broadcasts

 • Record and play back HDTV satellite broadcasts

 • Record and play back HDTV cable broadcasts

 • Searching for Shows to Record

 • Search by Title

 • Search by Genre

 • Search by time and channel

 • Automatic recording of similar shows

 • Search by criteria

 • Playing Other Types of Media

 • Playing DVDs

 • Playing other computer video media (.avi, .mpeg, etc)

 • Playing Music Files

 • Displaying pictures

 • Pause and Resume Live TV

User can pause live TV and press Play to resume form where user has left.

 • Rewind Live TV

User can rewind live TV.

 • Slow Motion

User can watch live TV in slow motion.

 • Set Multiple Recording Profiles

User can specify compression levels and video resolution while recording shows. Shows will get recorded at the selected resolution and compression. For example user can record his favourite shows at the highest possible resolution and the least compression.

 • Create Playback Profiles

User can set specific playback speed levels and jump sizes for playbacks. For example user can set news shows to play back at 10% faster than other shows.

 • Post-Recording Processing System

Shows can be further compressed beyond the ability of a realtime codec. Different profiles allow higher or lower compression rates there, as well.

 • Automatically Find and Remove Commercials in Shows

DVR can automatically find commercials based on very sophisticated algorithms that found blank spaces and logos and other indicators of advertisements. If user confirms these commercial breaks before telling the machine to process the post-recording options, the ads will disappear entirely from the recordings.

 • Non Visual Fast Forward Jumps

If the commercial-tagging process hasn’t run yet, user can still jump forward and back through the recordings (the default is 30 seconds forward and 10 back). This will be a non-visual jump, so user don’t see the intervening ads.

 • Fine-tune recording schedules

Specific shows can be set to “find once” or “any time on this channel” or “any time on any channel” or “once a week” or “in this timeslot” etc. User can also set how many minutes before and after a show to record, in case the timing is off. User can set the DVR to save a specific number of episodes, and either auto-delete the older episodes to keep the most recent one available or stop recording once the set number of episodes were recorded. User can set recording priorities on a numerical scale per recording. These priorities work with other priorities based on channel.

 • Organize Playback Library

User can create categories for playback library. Each show can be assigned to one of these categories or to automatic categories or to default category. Recordings can be sorted by date, chronologically or alphabetically within each of those categories, or user can look at all shows in the main “All Recordings” group.

 • Networking

Videos can be copied over the network to the DVR. User can also copy recordings from the DVR back to computer, edit them and save them to other formats.

 • Scheduled Recordings

User will click the Scheduled Recordings menu item to view the scheduled recordings.

 • Available Recordings

User will click the ‘Available Recordings’ menu item to browse the recordings.

 • Four tuners and it can handle HD streams

DVR will provide four tuners and will be able to handle HD streams.

 • Mobile Recording

User can record shows from user’s mobile anywhere in the world.

 • Internet Recording

User can browse the programming guide and record from the internet.

 • Record on USB Devices

User can plug/unplug any number of devices in the USB slot and connect hard disk of upto 2 Terabytes.

 • Power Failure Resume

In case of a power failure, recording will resume again when power returns.

 • Watch TV While Navigating the Menus

DVR will allow the user to continually watch TV while navigating the menus.

 • burn shows to CD or DVD.

DVR will provide user the ability to easily burn shows to CD or DVD.

 • Other Features

DVR will support the following additional features through plugins:

 • Integrated Web Browser

 • Browsing news headlines

 • Local weather reports

 • Playing Games

 • Video Conferencing