Rupantor

version 2.0.0

User's Guide

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Quick Start

Congratulations on purchasing Rupantor. Read this section to get started using Rupantor quickly.

Rupantor is an mpeg4 to wmv conversion software developed by T^2 Software for Ryans Archive. Hasan Shahid Ferdous and Tamal Saha, two students of the Computer Science and Engineering Department of Bangladesh University of Engineering and Technology (BUET), have developed this software. This Software is written using Visual C++.NET 2.0 and DirectX 9.0a API.

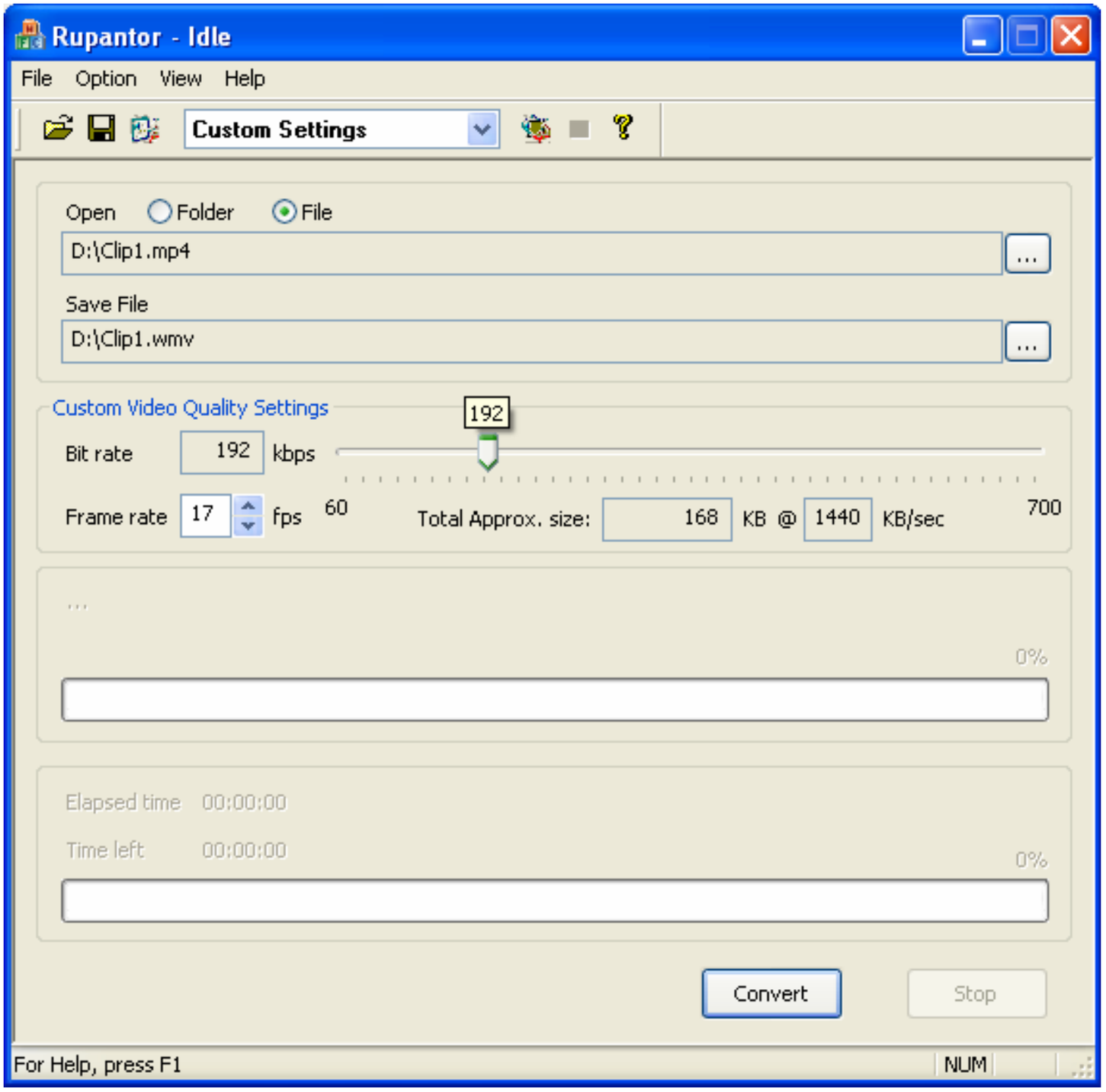

Figure 1: Main window of Rupantor

Rupantor Features

Rupantor is an mpeg4 to wmv conversion software. With Rupantor, you can:

- Efficiently convert mpeg4 videos produced by Hikvision Surveillance card to wmv files.
- Select the output quality of the wmv files from a library of six pre-selected video qualities.
- Set the frame rate of the output wmv file in “Custom Settings” pre-selected video qualities within a range of 1-30 fps.
- Set the bit rate of the output wmv file in “Custom Settings” pre-selected video qualities within a range of 60-700 kbps.
- Set the output file/folder location from the File/Folder Options menu.
- Restore settings to the installation defaults.

Installing Rupantor

Installing Rupantor is quite simple. Follow the steps below to install Rupantor:

- Insert the installation CD into yours CD-ROM.
- Open the CD drive and double click the **setup.msi file.**
- Rupantor needs **Windows Media Player Filter** provided by Hikvision as a prerequisite. The installer will prompt you to install the filter. You have already installed the filter, then omit this option. If you are not sure, then go on and continue installing the filter.
- Now follow the on screen instructions and continue installation.
- Click the finish button and the installation is complete.

Setting Up Rupantor to Convert mpeg4 Video

Now select either the file or folder radio button. Open File is the default selection. Click the button and select one or more files or a folder. You can now accept the default destination location or select one location of your choice. Then click the **Convert** button and conversion starts.

Using Rupantor

Read this section to learn about using Rupantor controls, selecting video quality, selecting file/folder options, and using the extra features of Rupantor.

Using Rupantor Controls

The use of this software is quite easy. Its use is described below step by step.

Figure 2: File Menu of Rupantor

In the main window of Rupantor, there are menu bar, a tool bar, an option taking panel, two timelines and “Convert” and “Stop” buttons.

With Rupantor the user can convert a single mpeg4 file or multiple mpeg4 files or a single folder containing mpeg4 files. The user can select either “folder” or “file” option from the panel.

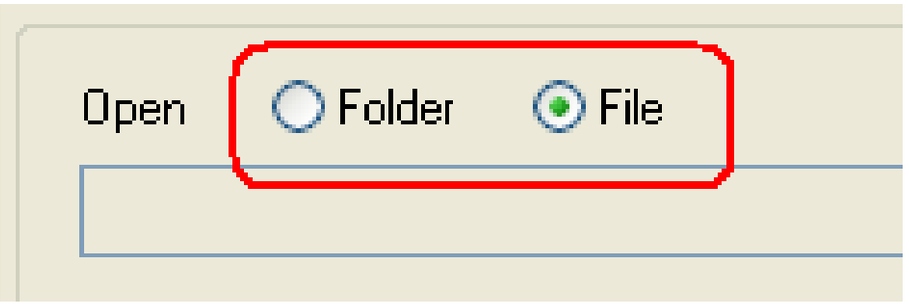

Figure 3: Selecting File/Folder for conversion

Whether he will be able to open for conversion: files or folder; will depend on this choice. He can browse for the source file or folder. In folder mode, he can select a folder, and if this folder or subfolders contain any mp4/mpeg/mpg/264 files, those will be selected for conversion maintaining the appropriate directory structure as the source folder. In file mode, he can select one file or multiple files.

To select the source file/folder, the user can click browse button beside the “**Open**” label, or he can select “**Open**” icon is the toolbar, or can choose “Open” menu item from the **File** menu. After selection of the source file/folder location, the destination is automatically selected

according to the values selected in the “**File/Folder Options**” dialog, which is described below. However, the user is free to choose the destination according to his choice.

File/Folder Options

This menu is used to help the user by automatic selection of source and destination file/folder location. This menu is divided into two tab panes: File Options and Folder Options.

Both of them are described below one by one.

File Options:

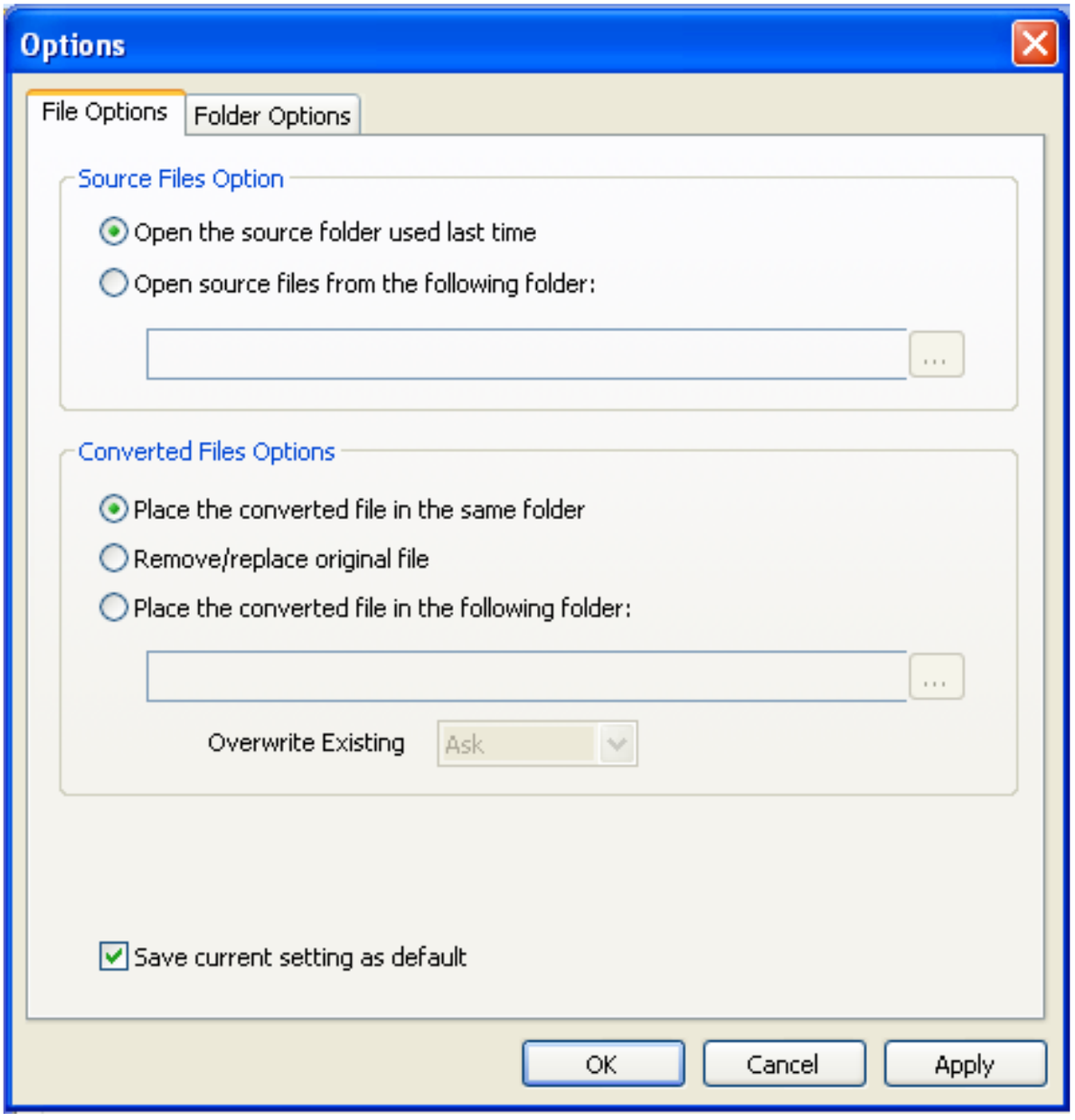

Figure 4: File Options

In the “**Source Files Option**”, if the user selects “Open the source folder used last time”, then the browse dialog starts from the last opened source location. And if the user chooses “Open source files from the following folder” and defines a folder location, then browsing always starts from that defined location.

In the “**Converted files options**” pane, if the user selects “Place the converted file in the same folder”, then the automatic destination location is the same folder as the source file’s folder. If there exists a wmv file with same name in that folder, then the new wmv file is automatically renamed so that there is no conflict.

If the user selects “Remove/replace original file”, then the automatic destination location is the same folder as the source file’s folder, and if there exists a wmv file with same name in that folder, then the old wmv file is automatically replaced by the new wmv file.

If the user chooses “Place the converted file in the following folder” and defines a location, then the converted file location is automatically selected to be in that folder. The user can set several options regarding overwriting a wmv file with the same name as the converted file for this option. These are “ask”, “rename”, “replace” and “skip”. They work as their caption suggests.

Finally, the user has a check box to select whether to save the current settings as default or not. If he selects this option, then the settings are

saved into the registry, and the next time user opens this File/Folder Option, he sees it as he left it. Otherwise, the previously saved options are shown.

Folder Options:

The folder options pane is almost the same as file options except now we are considering folders rather than files.

The first case of converted folder options is that to place the destination folder in the same directory as the source folder and add “_wmv” with the source folder name to set as the destination folder name. The user can set several options regarding overwriting a wmv file with the same name as the converted file for this option. These are “ask”, “rename”, “replace” and “skip”. They work as their caption suggests.

The user can also choose to place converted files in the same folder as source folder. If there are wmv files with same name then the new files will be renamed.

If the user selects “Remove/replace original file”, then the automatic destination location is the same folder as the source file’s folder, and if

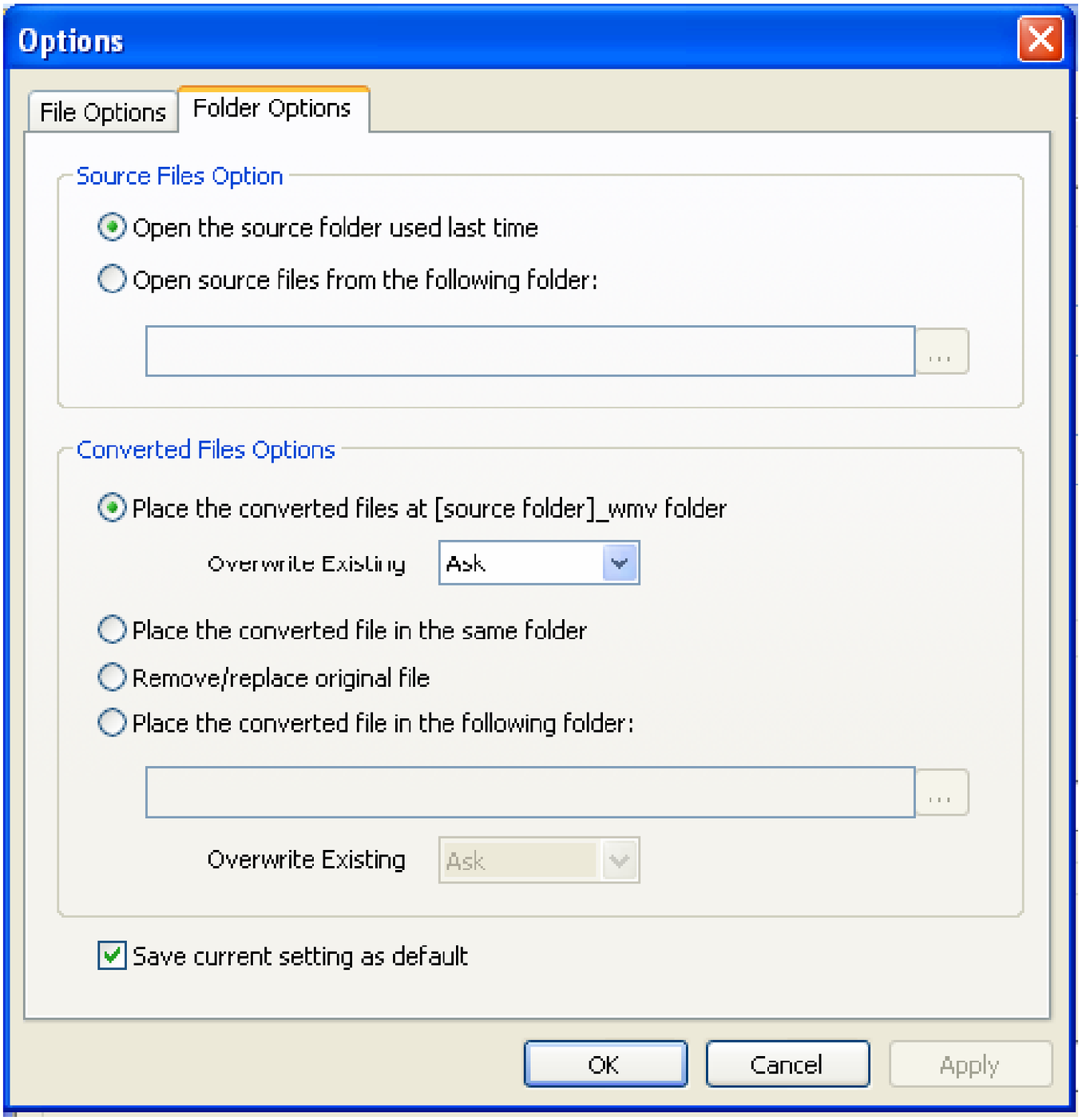

Figure 5: Folder Options

there exists a wmv file with same name in that folder, then the old wmv file is automatically replaced by the new wmv file.

And the fourth option is to select a default destination directory for converted files. In this case the user can set options to deal with wmv files with same name.

Finally, the user can choose to save his folder settings in registry. This option is not affected by the similar option in the file options tab.

Time Lines:

There are two time lines. The upper one represents the condition of the current file conversion process and the lower one represents the conversion status of the whole job. That is, if 3 files are selected for conversion and the currently converting file is the 2nd one, then the upper timeline shows status of the 2nd file conversion process, and the lower time line represents the ratio of the converted file time and total file time that is the overall work position. There are also two static fields indicating the elapsed time and approximate remaining time.

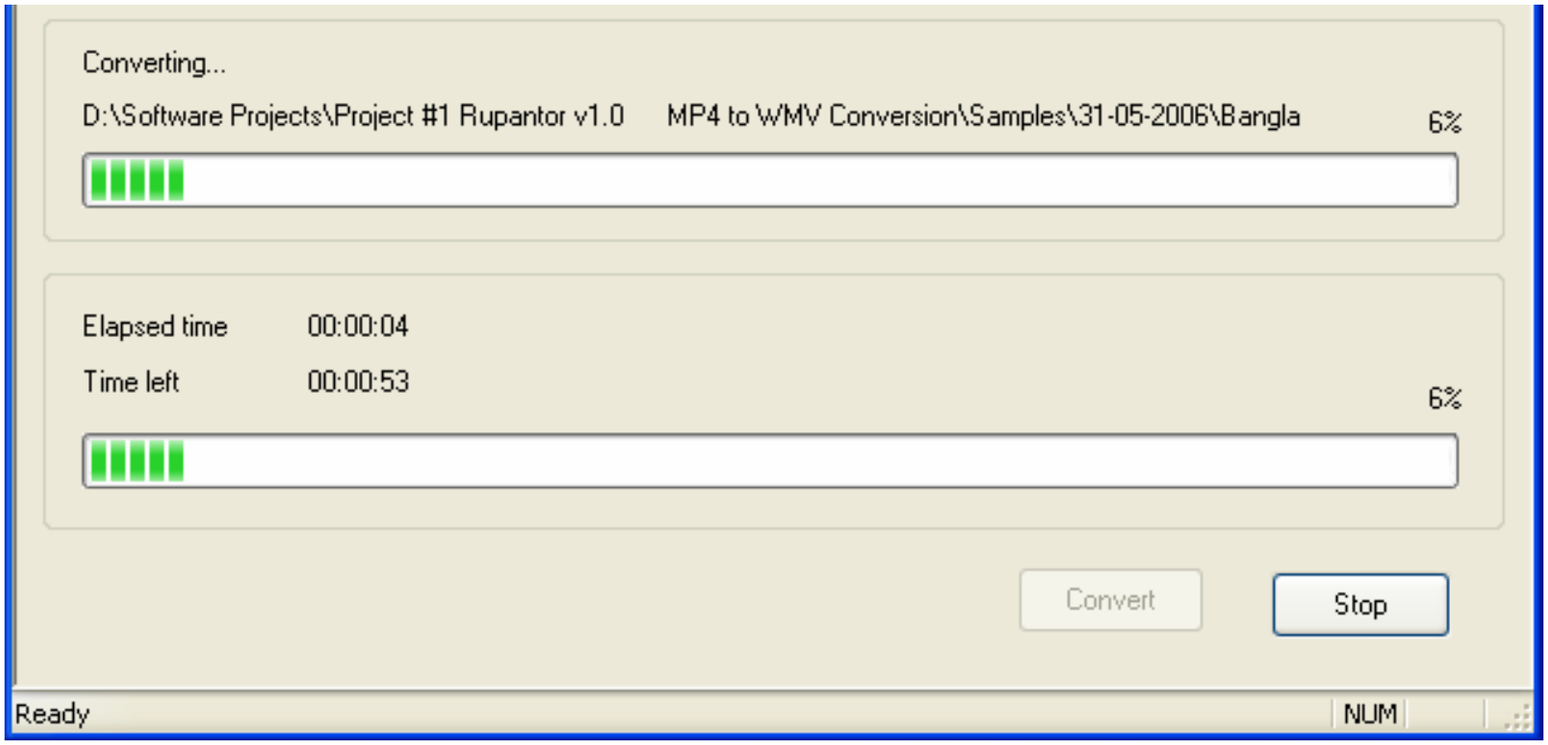

Figure 6: Time line showing conversion status

Video Quality Settings:

There are five video quality options available in the combo box in the tool bar, and it has its replica in the options->WMV Video Quality menu. The first quality is for maximum quality and size, last one for minimum quality and size. They are described shortly below:

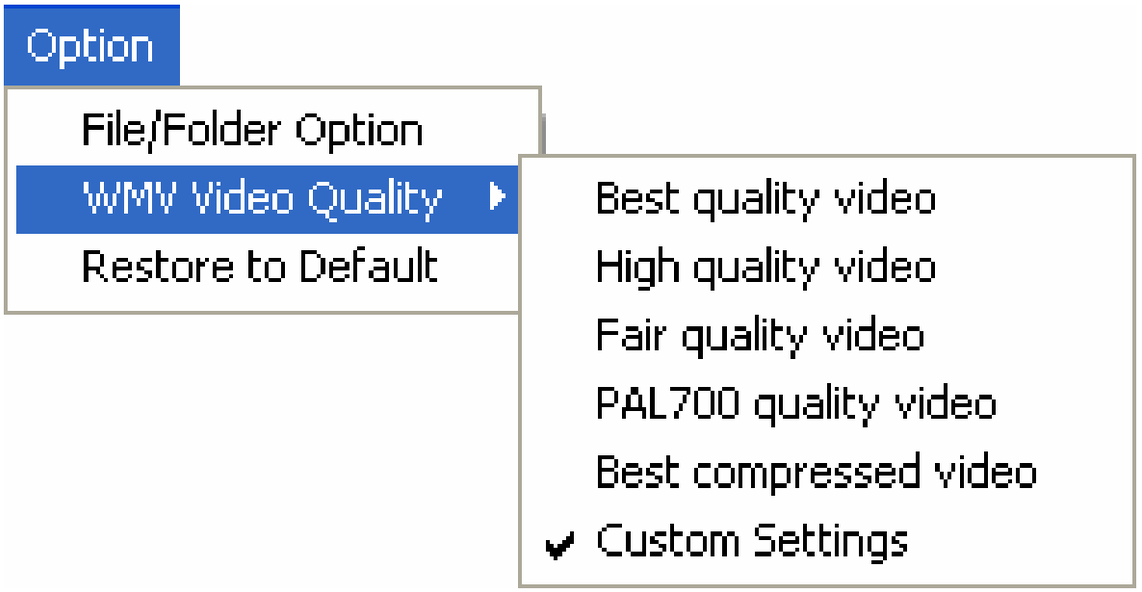

Figure 7: WMV Video Quality menu

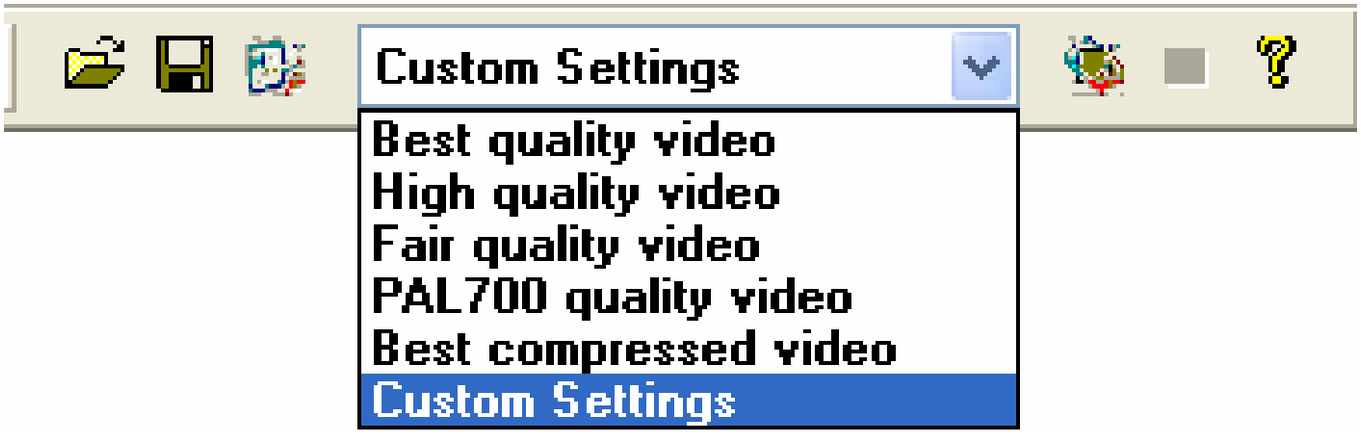

Figure 8: WMV Video Quality combo box on toolbar

Best quality video:

Best quality based profile for VBR content that is quality constrained.

High quality video:

High to best quality based profile for VBR content that is quality constrained.

Fair quality video:

Fair to high quality based profile for VBR content that is quality constrained.

PAL 700 quality video:

Use this profile for high quality audio/video content intended for local playback or for download and playback. It takes 700 kbps space.

Best compressed video:

Use this profile for high quality audio/video content intended for local playback or for download and playback. It takes 384 kbps space.

Custom Settings:

Use this profile to set the frame rate and bit rate of the output file. The bit rate can be set within the range of 60-700 kbps. The frame rate can be set within the range of 1-30 fps.

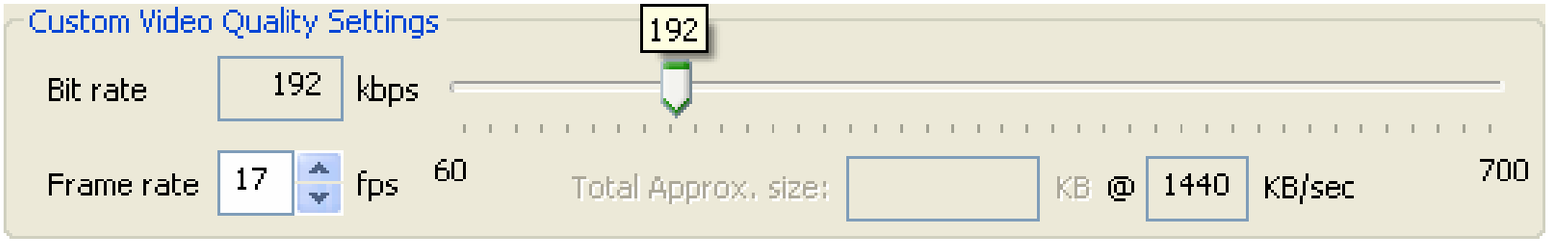

Figure 9: Custom Video Quality Settings control before pressing Convert button

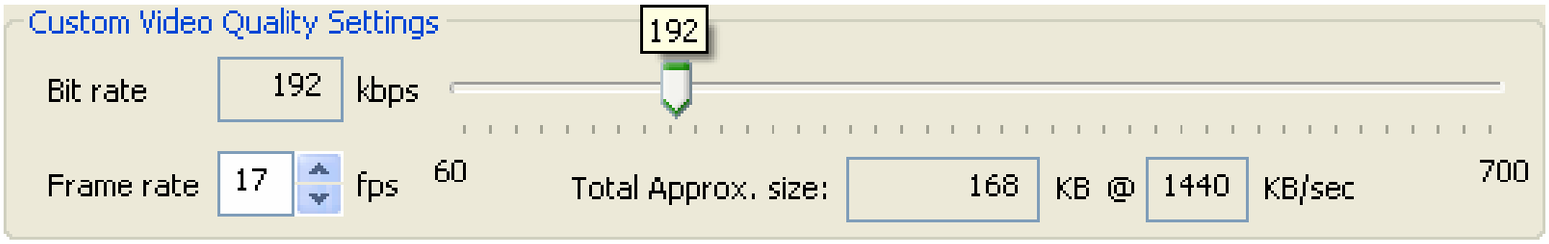

Figure 10: Custom Video Quality Settings control after pressing Convert button

Restore to Defaults:

If the user selects this option from the **option** menu, the file/folder options are reset to the default options set after installation and the wmv video quality is set to “Best quality video”.

Convert and Stop Buttons:

After selecting the source and destination file/folder and WMV Video Quality Settings, the only job of the user is to press the “Convert” Button and wait until conversion completes. This is so SIMPLE!

The user can stop the process at any time by clicking the Stop Button, and if he does so, the file that was converting is finalized at current position. The same thing happens if the user closes the window by clicking on the close button or pressing (ALT+F4) during conversion. The Convert and Stop buttons have their replicas in the file menu and in the tool bar.

Learning More, Service, and Support

For latest information on Rupantor, go to www.t2software.somee.com.

For Rupantor service and support information, you can contact its developers at the following address:

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