Format Convert Software User Manual

V3.0

Contents

Chapter 1 Software Instruction

Welcome Interface
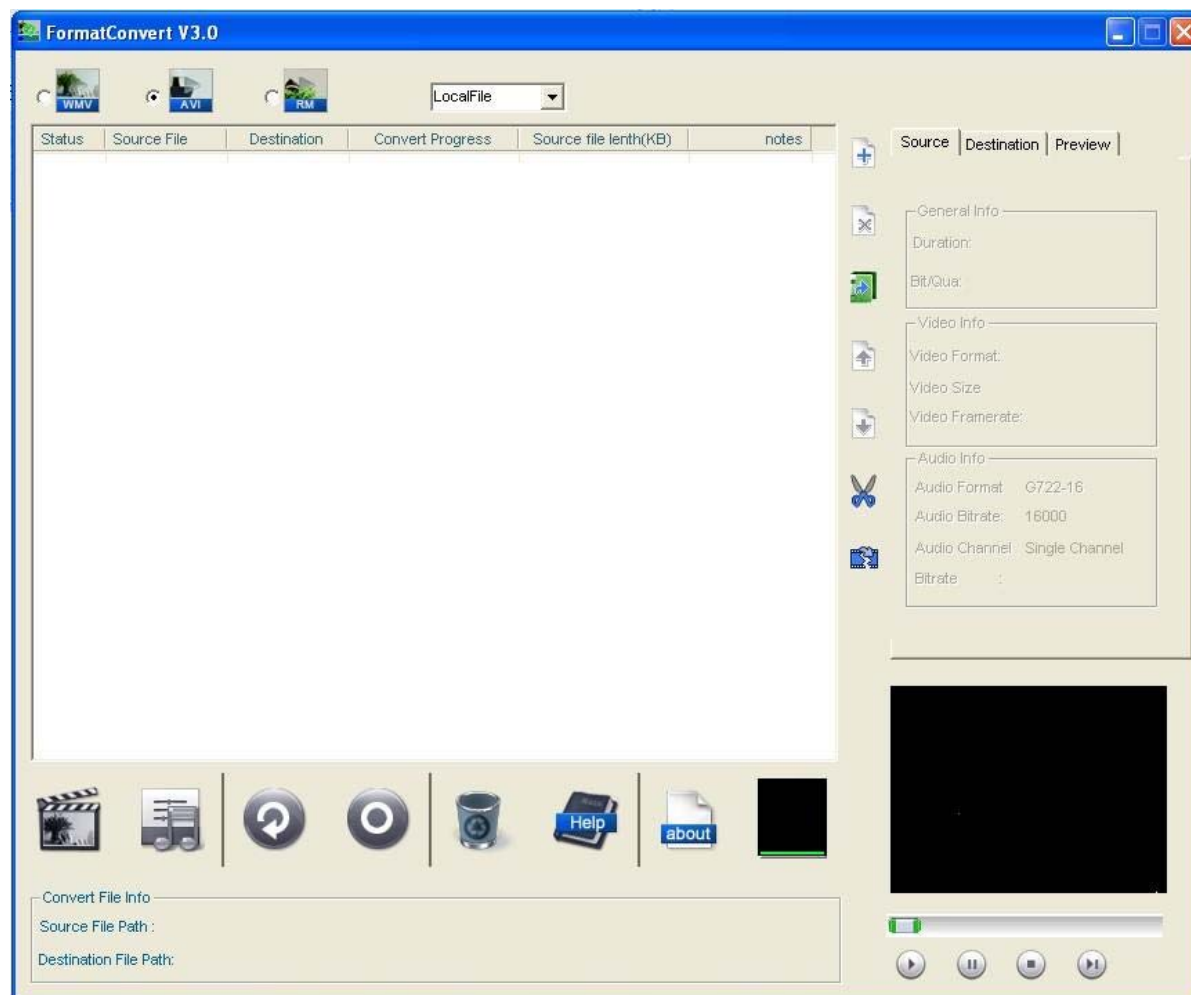
Welcome to operate Format Convert 3.0, it supports file converting from original files generated by Hikvision devices, including to DS-70xx\80xx\7204\7108 series DVR, DS-73xx \81xx \7208\7216 series DVR, DS-9000 series Hybrid DVR, DS-42XX series PCI cards, IP Cameras with HIK H.264 stream, standard H.264 stream and MPEG-4 stream, into.wmv, rm. and .avi format.

Note:
If the frame rate of the recording files is less than 1fps, the files could not be converted.

Format Convert 3.0 also supports video/audio parameter settings, and can do video convert based on customer's configuration. We sincerely hope that this Format Convert 3.0 software would help our customers in daily application requirements.

System Requirement

OS: Windows 2000/2003/XP
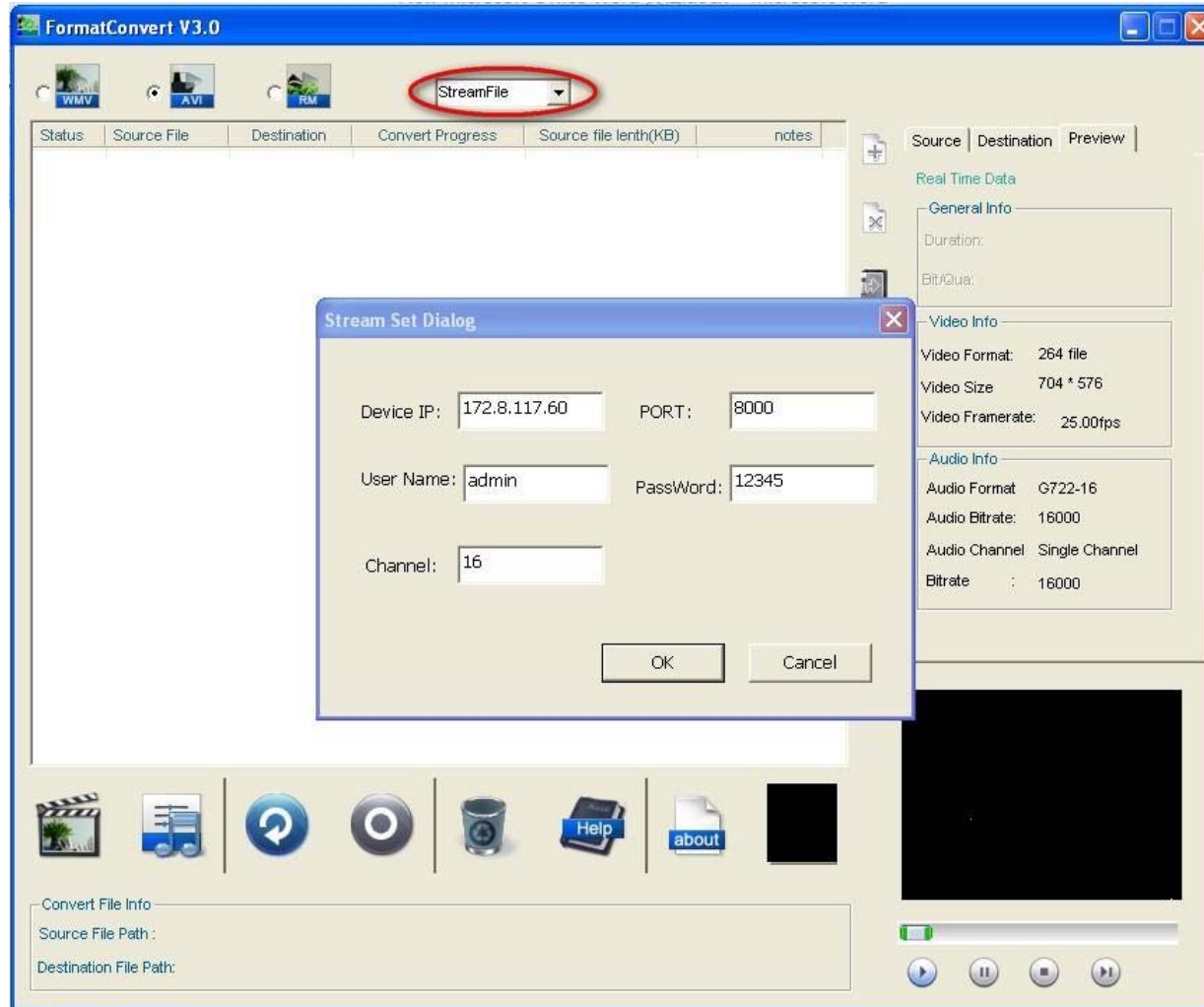
Format Supported

•Support Source File Format:

DS-80xx \70xx \7204\7108 series DVR,

DS-81xx\73xx\7208\7216 series DVR,

DS-9000 series Hybrid DVR,

DS-42XX series PCI cards,

IP Cameras with HIK H.264 stream,

IP Cameras with standard H.264 stream

IP Cameras with MPEG-4 stream

•Support Converted File Format:

•Local file

•Real-time stream:

• **Support destination file:**

•WMV file（*.WMV）users can set the parameters of video size, frame rate, bit-rate and audio rate through WMV audio configuration window.

•AVI file（*.AVI), users can set the parameters of encoding format, frame rate, bit-rate and audio rate through AVI video/audio configuration window.

•RM file （*.RM），users can set the parameters of video size, frame rate, bit-rate and audio rate through RM audio configuration window.

For above format converting part, the default converting parameters are: video size is 352*288, frame rate is 25, bit-rate is 1000kbps, audio rate is 64Kbps, the AVI format default encoding format is XVID, video size is 352*288, frame rate is 25, bit-rate is 1000kbps, audio encoding format is 64kbps mp3.

Uninstall

As shown: select Uninstall Format Convert 3.0 in the "Start Menu" → "All Programs":
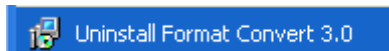
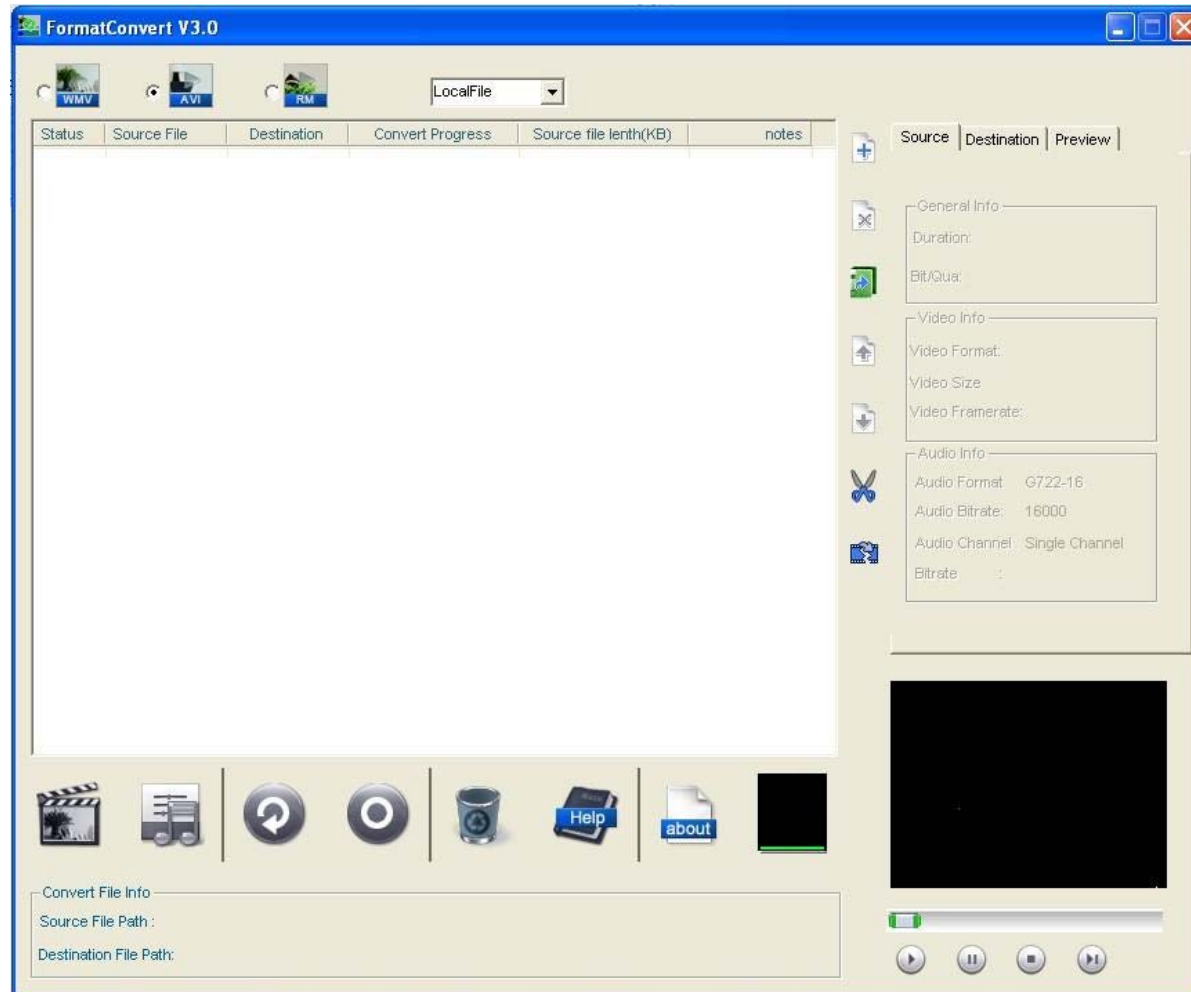

Uninstall process is shown as below:

Uninstall completed:

Format Convert 3.0 Uninstall

Format Convert 3.0 was successfully removed from your computer.
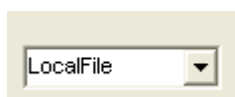
OK
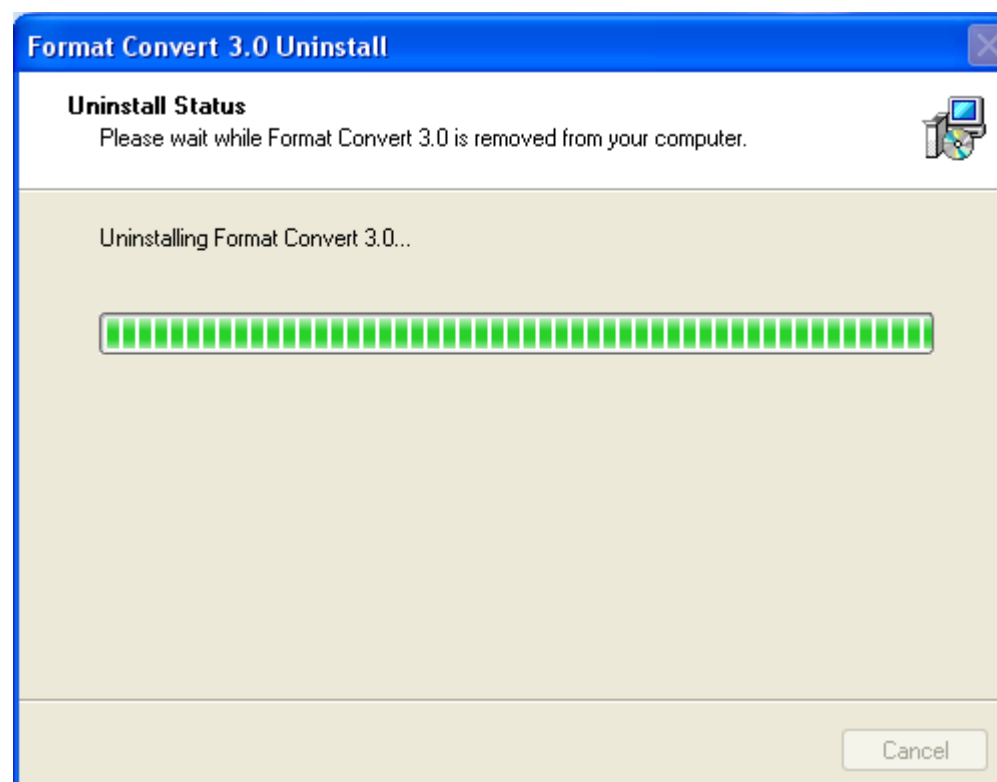
Chapter 2 Start operation

Start Operation

After installation completed, users can start to use Format Convert 3.0 software, and the welcome interface will popup as below:
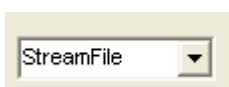

File type selection

•Local file

**•Real-time stream :**

Format Select

Users can select converted file format on software main interface, and the converted format will be .avi by default.

Convert File Information

On selecting certain file in the file list, relative information of the source file and converted file will be displayed in convert file information area. The information is shown as below if the destination file saving directory was not set:
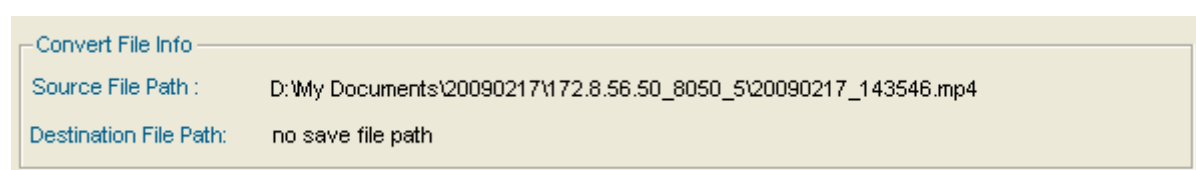
The information is shown as below if the destination file saving directory was set:
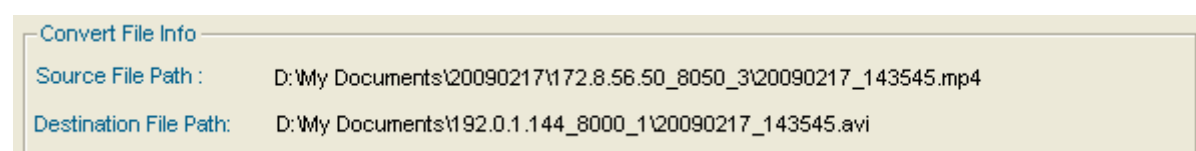
Preview Source Files

File preview area is in the bottom right corner of software interface as shown below:
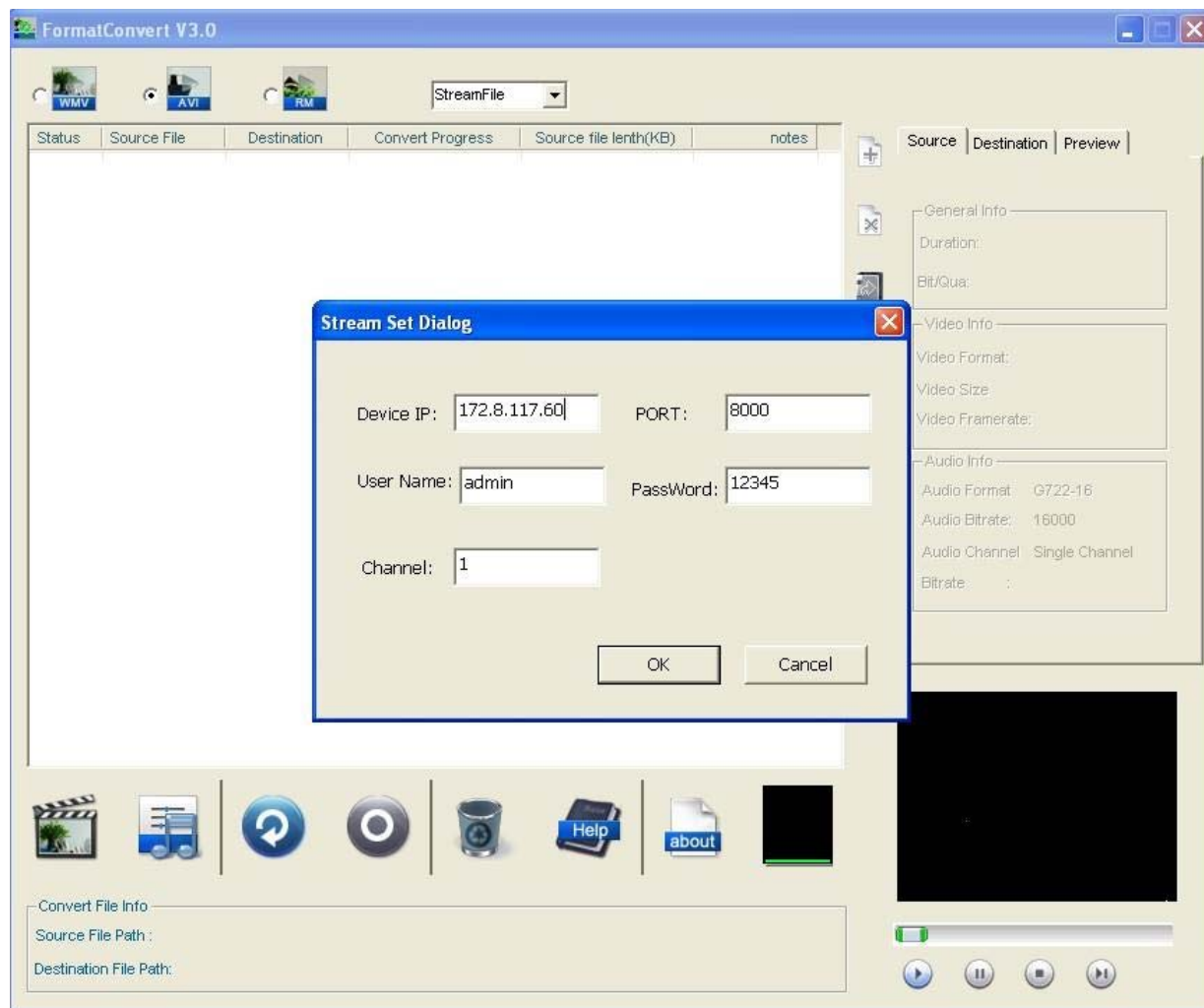

Select a file in file list and click icon to start preview.

Note:

   This function is only used for previewing source files, and cannot be used to preview converted result. For more information about preview display, please kindly refer to the operation guide of preview display.

•**Real-time stream preview**

Set the network parameters and connect the network devices.

After set the network parameters, click ok, then click button begins to preview Real-time stream ; please check the network devices and parameters configuration if you can not preview it. The preview image is shown as:
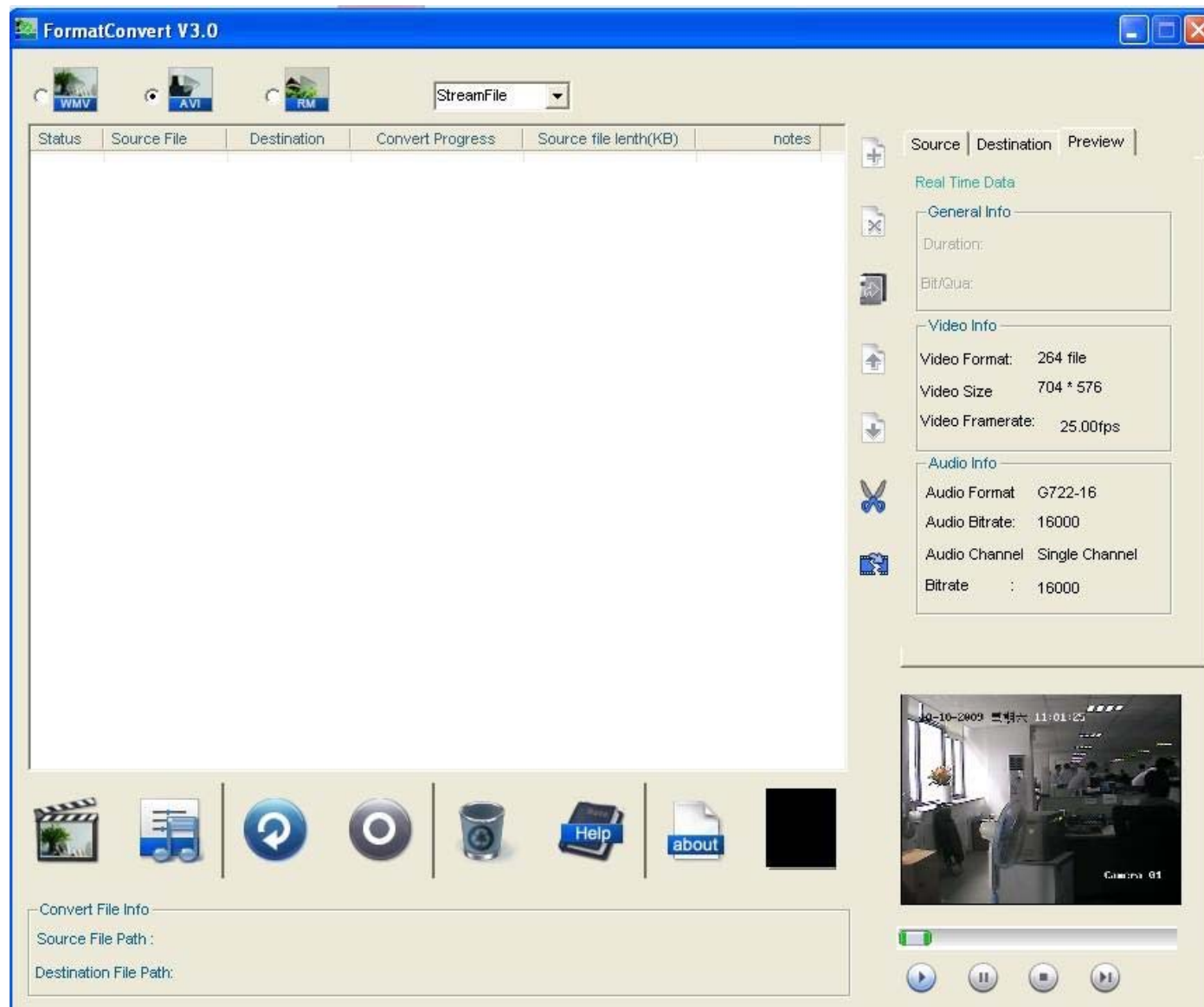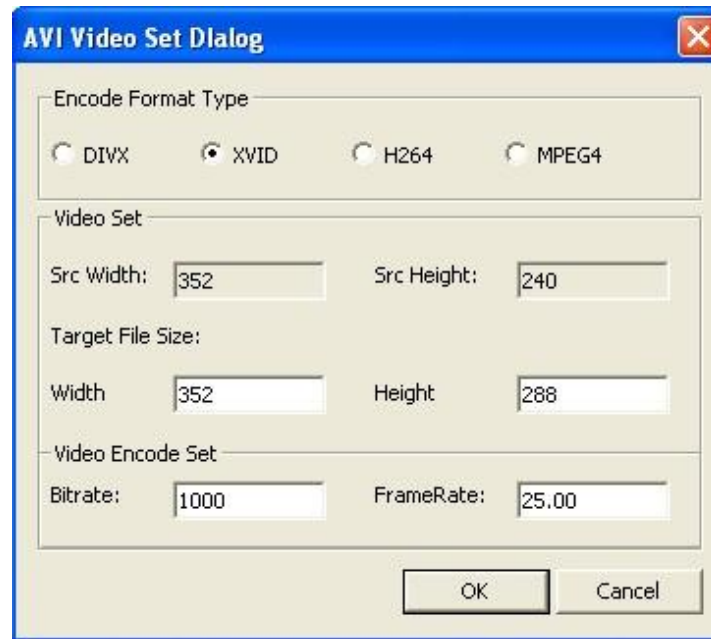
Convert Parameter Configuration

•WMV format:

Click [icon] to set the video parameters or [icon] set the audio parameters configuration, the default WMV parameters configuration is: video size is 352*288, frame rate is 25, bit-rate is 1000kbps, audio rate is 64Kbps, shown as:

•AVI format:

Click [icon] to set the video parameters or [icon] set the audio parameters configuration, the default AVI parameters configuration is: video size is 352*288, frame rate is 25,
bit-rate is 1000kbps, audio rate is 64Kbps, shown as:

Click to set AVI audio configuration parameters, it will popup a dialog box shown as:

Configuration completed, click ok, files will be converted by user-defined configuration..

•RM format:

Click or to set the audio-video parameters configuration, the default parameters configuration is : video size is 352*288, frame rate is 25, bit-rate is 1000kbps, audio rate is 64Kbps, shown as:
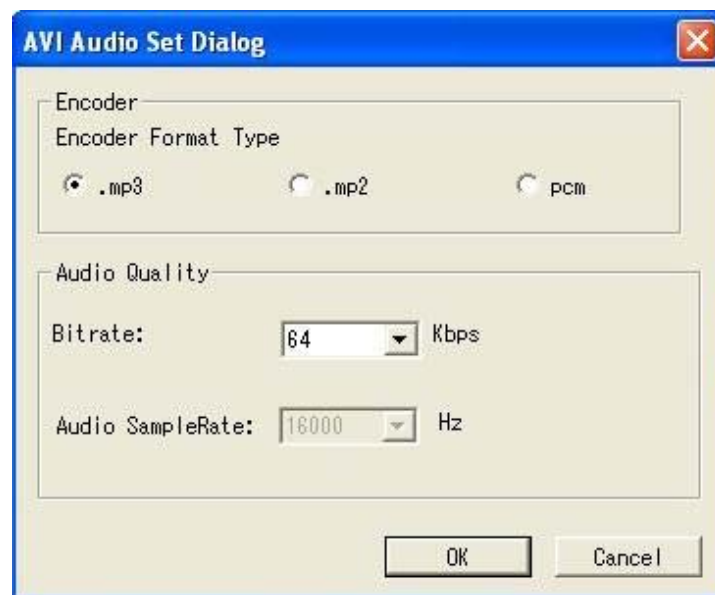

Configuration completed, click ok, files will be converted by user-defined configuration. The parameters configuration operation of local file and Real-time stream are the same.

Note:

VLC is recommended to play RM format video.

Add Folder(Local File Only)

Users can click icon on software main interface, or right click on file list area and select "Add folder" to add folder into file list as below:
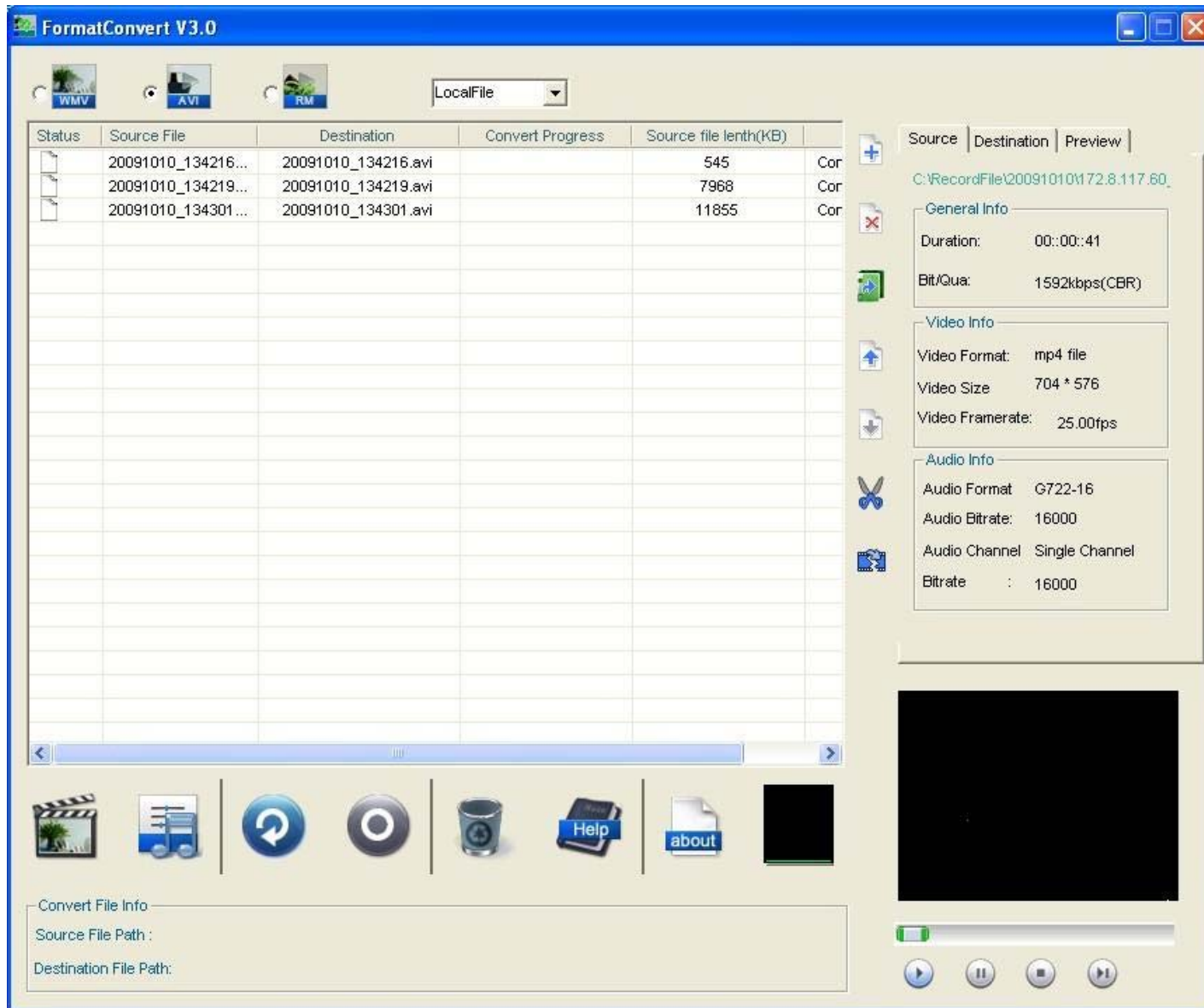
Please click and select a file if you want to check the referenced file information, and the source file information will be displayed on the file information area on the right side:

Add Single File(Local File Only)

Click icon in software main interface, or right click on file list area, a menu will popup as below. Please kindly select "AddFile" and choose source file, the file name will be displayed on file list as below:

Start Convert

Select a file type, if it is local file, users have to add audio-video files before starting format convert, then configure all relative parameters (the default WMV and RM parameters configuration is : video size is 352*288, frame rate is 25, bit-rate is 1000kbps, audio rate is 64Kbps, the AVI format default encoding format is XVID, video size is 352*288, frame rate is 25, bit-rate is 1000kbps, audio

encoding format is 64kbps mp3), left click to choose a convert file (or it will choose the first file at list), click icon on software main interface, or right click on file list and select "convert" to start converting, if the file save address is not set, it will popup a dialog box shown as below:

After determined the save address, it starts converting, please wait for it to complete:

Users can view converting status on file list. If the converting process has been finished, then the converting status bar will turn into convert success message; and the software will continue converting according to the file list order until all the files have been converted..

If the file type is real-time stream, users have to select Real-time stream first, the network parameters configuration dialog box is shown as below:

For example, we need .AVI file of channel 16, here enter 16 in channel item.

Then you can press button to check whether the live stream can be transmitted or not, at this point, you can press „ " icon to go to converting process.

File name after converting: destination file directory + device IP + ticktime + format suffix name;
For example: converting an AVI format file which device IP is 192.0.0.63, and the destination file directory is F:\Test File, then it will create a file as: F:\Test File\192.0.0.63_1.avi;
Converting again after stop (the entire real-time stream file), the file name should be F:\Test File\192.0.0.63_2.avi, shown as below:

Note:
        When converting the real time stream, target file type could only be "Video Only". If customer has requirement for other types, please contact us for the SDK.
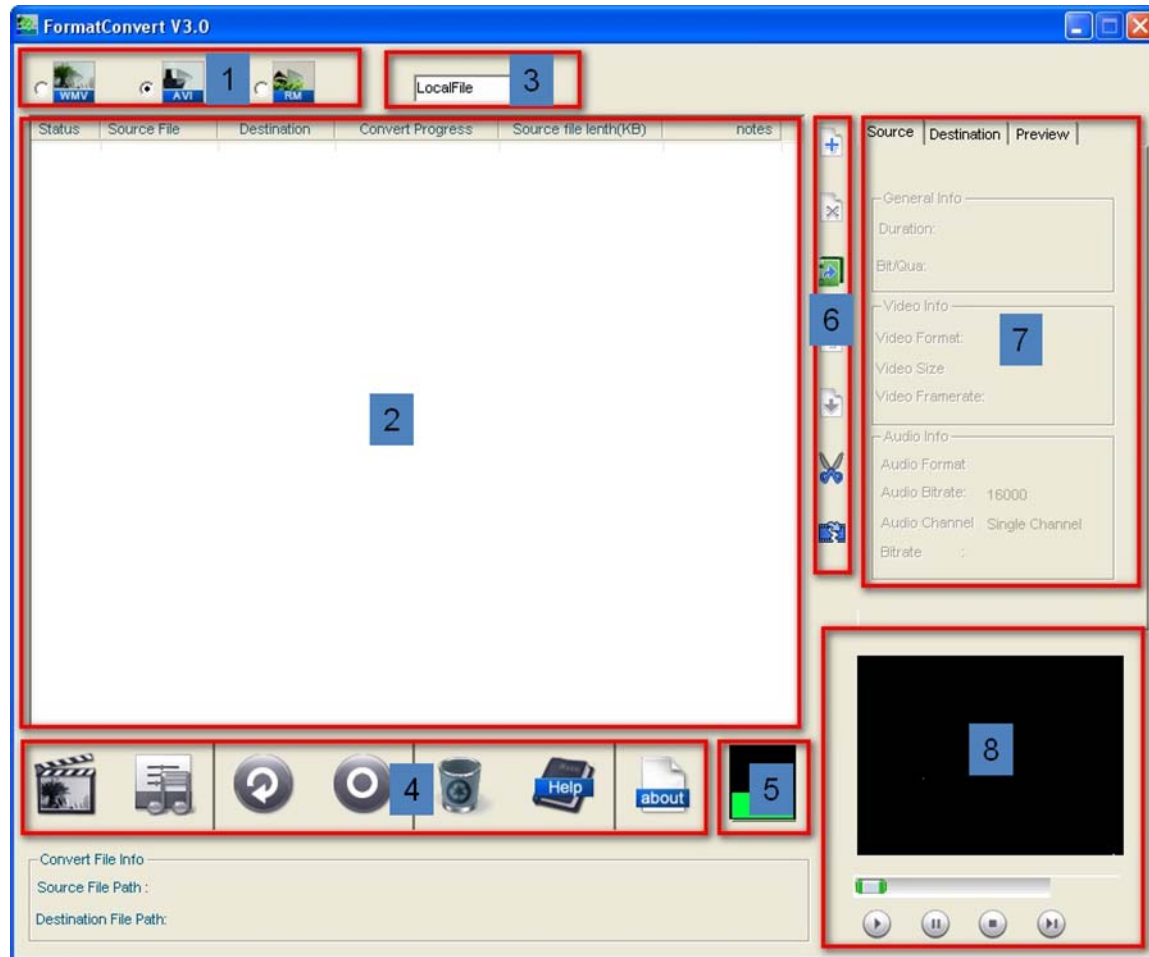
Stop Convert

If users want to manually stop converting before file converting completed, please click icon on software main interface to stop current converting as below:
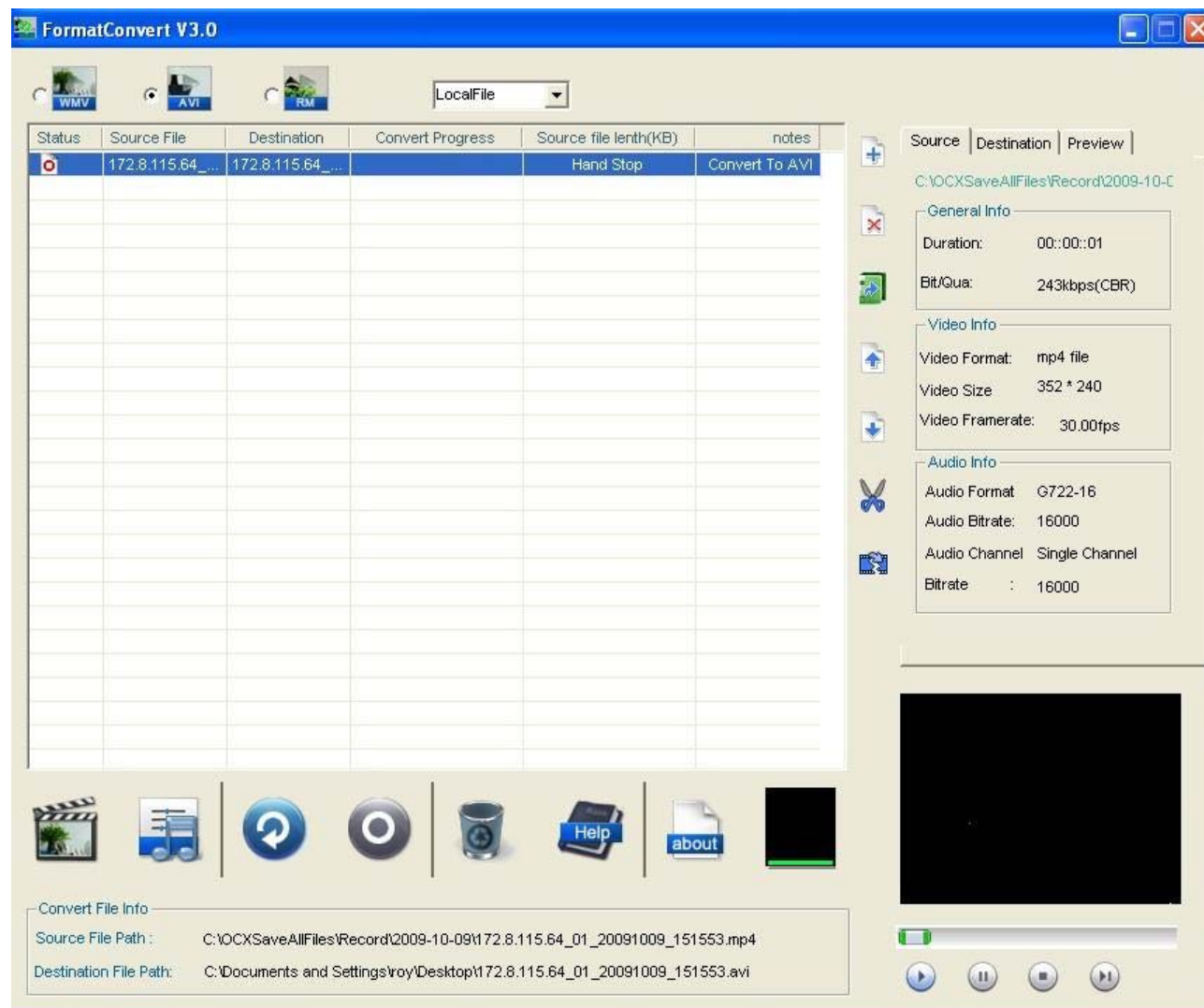
Chapter 3 Operation Instruction

Interface Design

No.	Items	Function Description
1	Convert Format Select	For selecting convert file format.
2	Convert File List	Display files for converting and convert status.
3	Source File Type	Local file or live stream
4	Convert Tools Bar	This areas provides tools for video/audio configuration, start convert, stop convert, clear file list, software information and help document display.
5	CPU Usage	Users can view real time CPU usage in this area
6	File List Edit Tools	This area provides functions of add Files, delete Files, add Folder, delete Folder, move Files to Upper Level, move Files to Lower Level, file chip edit, files merge
7	File Properties	Users can browse source file information, converted file information, preview file information in this area.
8	Preview Player	play selected files or view live image

Format Select

Users can select converted file format on software main interface, and the converted format will be .avi by default.

Click WMV option and the file will be converted to .wmv format.

Click AVI option and the file will be converted to .AVI format.；

Click RM option and the file will be converted to .RM format.

Convert File List (Local File Only)

File List Item Description

File List Items	Description
Status	Please kindly refer to the status table
Source File	Display source file name here
Destination	Display converted file name here(target file name = source file name +.(convert format))
Convert Process	Display current file converting process
Source File Length	Please kindly refer to the source file length table
Notes	Display converted file format

Status:

Icon	Description
	Added file
	File on converting
	File error
	Manual stop
	Convert complete

Source File length

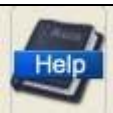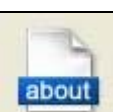| Icon	Display source file length before converting
	Display "converting" when file is on converting
	File on converting
	If there is converting error, it will be prompted
	If converting has been manually stopped, display icon as Hand Stop
	If converting completed, display "convert finished".

Context Menu

Users could find some basic operation options in right click menu when running Format Convert software. Right click in the file list area to open a context menu.

Convert Tools

Icons	Items	Description
	Video Settings	If there is only single file in the file list, users can click this button to configure image size, format, bit rate and image quality.
	Audio Settings	If there is only single file in the file list, users can click this button to configure image size, format, bit rate and image quality
	Start Convert	Click this icon to start format convert, and the software will run according to the file reference on the file list. **Note**: If users do not select converting files manually, the software will convert the first file on list by default.
	Stop Convert	Stop current converting process.

	Clear File List	Clear all files from the current file list.
	Help	Open the help document for Format Convert 3.0 software.
	About	Software information

Convert File List Editing Tools

Icons	Description	Notes
	Add file	Add files into file list.
	Delete file	Delete file from file list.
	Add folder	Include all the original HIKVISION files in a folder.
	Move upward	Move the file upward on file list.
	Move downward	Move t he file downward on file list.
	Edit video chip	Cut the selected files
	Joint files	Splicing the selected files

## CPU Usage

It can display current CPU usage.

Preview Display

Users can preview selected files in the file list or real-time stream of selected devices via preview display.


Icons	Description	Notes
	Preview display button	Start to play selected files
	Pause	Press this button to pause file preview(Local File Only)
	Stop	Press this button to stop file preview
	Next	Press this button to jump to next frame(Local File Only)

Cut file (Local File Only)

Click cut button of edit bar on file list or select file cut on right click menu, it will pop up a dialog box shown as below:
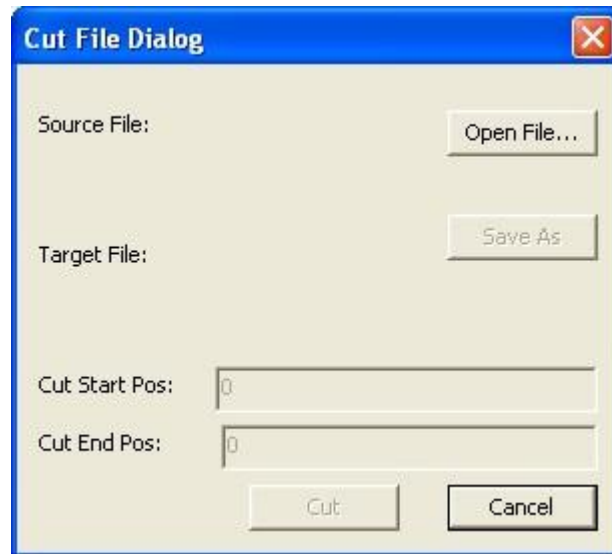
Click , select the original file which are to be cut, click , choose file saving directory, set the file start time, if not setting, the default settings should be the whole file, shown as:
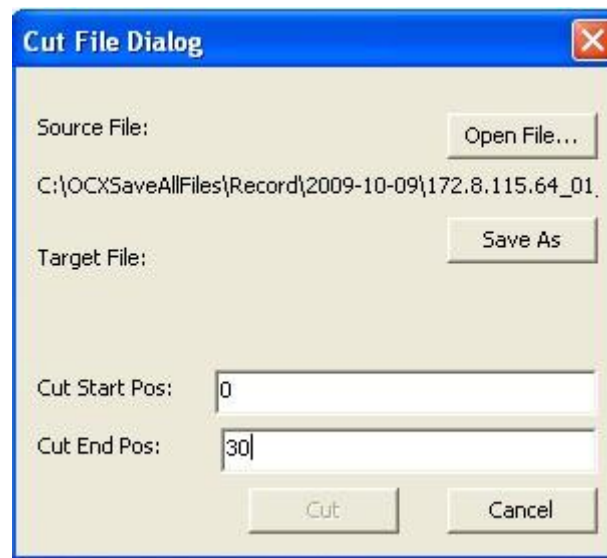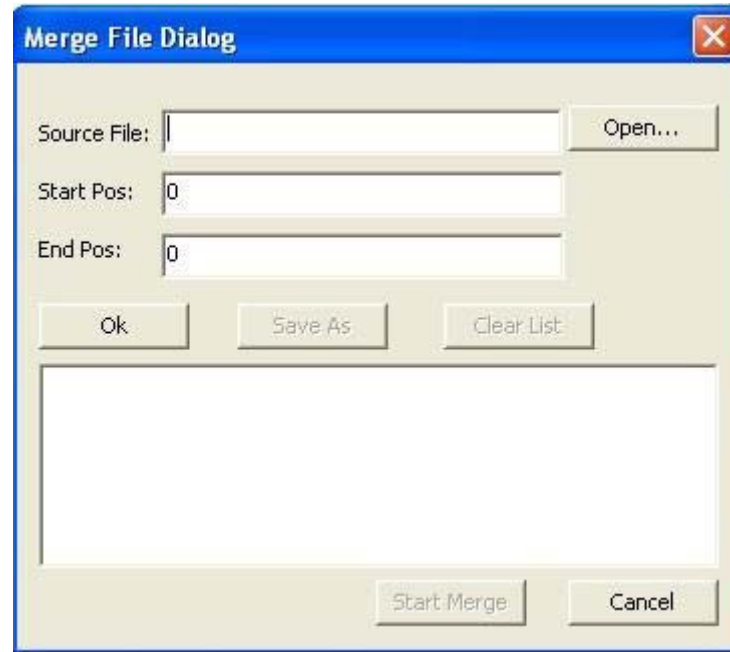

Note:

The unit for "Start Pos" and "End Pos" is millisecond. If the time span is too short(less than 1 second), the recording file may be abnormal

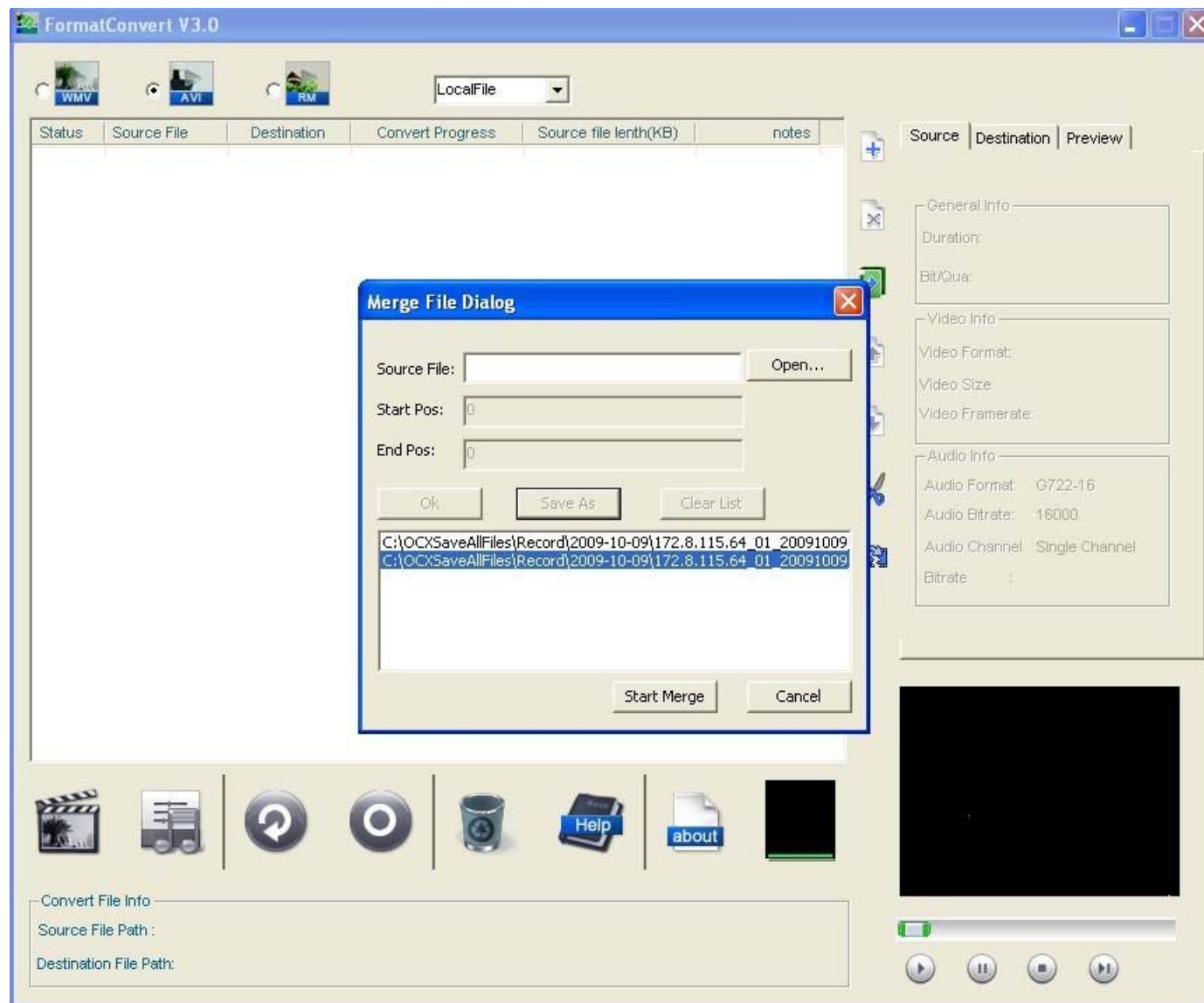If cutting successes, it will pop up a dialog box shown as below:
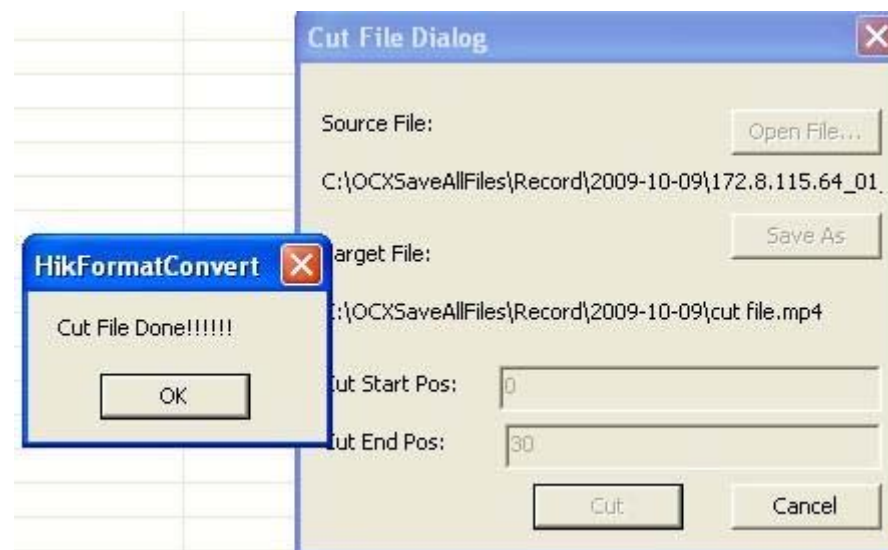
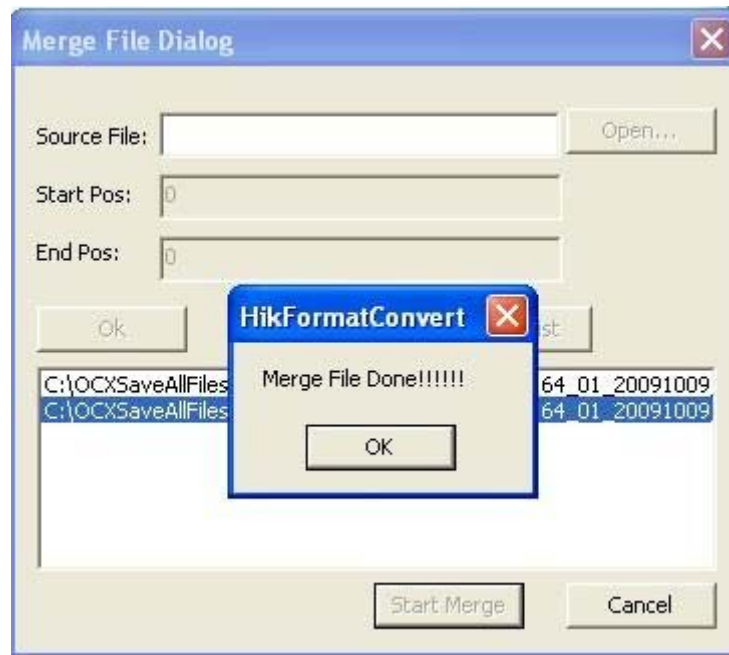Or it will shows error code, when it fails to cut the file.

Joint Files (Local File Only)

Click ![Open...] ，select splicing documents and the start/end (unit: millisecond) time, click ok it will display on splicing list, if there are many splicing documents just repeat the operation, shown as:

Click ![Save As] ,choose the destination document saving path, then click ![Start Merge] ,documents start to splicing, when splicing completed, it will popup a dialog box shown as:

Or it will shows error code, when it fails to joint the files.

Note:

- The unit for "Start Pos" and "End Pos" is millisecond. If the time span is too short(less than 1 second), the recording file may be abnormal.

- Some files could be joint, including:

1. Files from DS-8000/DS-7000 series DVR and DS-9000 series Hybrid DVR.

2. Files with H.264 codec and MPEG-4 codec.

3. Files with HIK H.264 codec and standard H.264 codec.

4. Files with different audio compression formats or encapsulation formats.

   (An error message will pop up when users try to joint two files that could not be joint. The 1st file on the list)

- If "Start Pos" and "End Pos" are not specified, whole file will be selected.