Format Convert Software User Manual

V3.0

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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 1 fps, 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

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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:

🚰 FormatConvert V3.0	
Status Source File Destination Convert Progress Source file lenth(KB) notes	Source Destination Preview
Stream Set Dialog	Video Info Video Format: 264 file Video Size 704 * 576 Video Framerate: 25.00 fps Audio Info Audio Format G722-16 Audio Bitrate: 16000 Audio Channel Single Channel Bitrate i 40000
OK Cancel	
Convert File Info Source File Path: Destination File Path:	

•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" \rightarrow "All Programs":

🐻 Uninstall Format Convert 3.0

Uninstall process is shown as below:

Format Convert 3.0 Uninstall	\mathbf{X}
Uninstall Status Please wait while Format Convert 3.0 is removed from your computer.	1
Uninstalling Format Convert 3.0	
)



Uninstall completed:



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





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:

Convert File Info	
Source File Path :	D:\My Documents\20090217\172.8.56.50_8050_5\20090217_143546.mp4
Destination File Path:	no save file path

The information is shown as below if the destination file saving directory was set:

Convert File Info	
Source File Path :	D:\My Documents\20090217\172.8.56.50_8050_3\20090217_143545.mp4
Destination File Path:	D:\My Documents\192.0.1.144_8000_1\20090217_143545.avi

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

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.

PormatConvert V3.0	
Status Source File Destination Convert Progress Source file lenth(KE) notes Image: Stream Set Dialog Stream Set Dialog Device IP: 172.8.117.60 PORT: 8000 User Name: admin PassWord: 12345 Channel: 1 OK Cancel	Source Destination Preview General Info Duration: Bit/Qua: Video Info Video Info Video Format: Video Size Video Framerate: -Audio Info Audio Format G722-16 Audio Channel Single Channel Bitrate :
Convert File Info Source File Path : Destination File Path :	

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:



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

Encode: Format:	Windows Mee 16 KHz, 1 Ch	dia Audio ns, 16 Bits	
Audio	64	-	
Video Size S Src Width Target File S	5et 352 iize:	Src Height	240
Width	352	Height	288
Video Quali	ty Set		
Bitrate(kbp	s) 1000	FrameRate	25.00
		10000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1



•AVI format:

mil set the audio parameters configuration, the default AVI parameters configuration is: video size is 352*288, to set the video parameters or **E** Click frame rate is 25,

bit-rate is 1000kbps, audio rate is 64Kbps, shown as:

incode Fo	rmat Type		
DIVX	XVID	C H264	C MPEG4
/ideo Set			
Src Width:	352	Src Height:	240
Target File	Size:		
Width	352	- Height	288
Video Enco	ode Set		
Bitrate:	1000	- FrameRate:	25.00

Click Click

AVI Audio Set Dialo	'g	
Encoder Encoder Format T	уре	
.mp3	C .mp2	C pcm
Audio Quality-		
Bitrate:	64 💌 Kb	ps
Audio SampleRate	: 16000 🖵 H:	z
37		w] a i]

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

•RM format:



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

M Set Dialog	ľ.			×
Audio Set Audio SampleR	ate: 64	.		
Set Video Para	•			- 11
Source Width	352	Source Height	240	Ĩ
Target File Size	4			
Width:	352	Height:	288	
Video Quality I	Para Set			
FrameRate:	25.00	Bitrate:	1000	2



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:

WMV	G 🔛		alFile				
tatus	Source File	Destination	Convert Progress	Source file lenth(KB)	Ľ,	-	Source Destination Preview
9	20091010_134216	20091010_134216.avi		545	Сог	+	1
2	20091010_134219	20091010_134219.avi		7968	Cor		C:\RecordFile\20091010\172.8.117.60
1	20091010_134301	20091010_134301.avi		11855	Сог		General Info
						~	Duration: 00::00::41
						-	
						æ	Bit/Qua: 1592kbps(CBR)
							Video Info
							Video Formet: mn4 file
							704 ± 570
							Video Size 704 * 575
						+	Video Framerate: 25.00fps
							-Audio Info
						M	Audio Formet G722-16
						~	Audio Format 0722-10
							Audio Ditrate. 16000
							Audio Channel Single Channel
							Bitrate : 16000
					>		
		0		about			4
onvert I	File Info						
Jurce F	lie Path :						

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:

Source	Destinat	tion Preview
C:\Recor	dFile\200	091010\172.8.117.60
Genera	al Info —	
Duratio	n:	00::01::01
Bit/Qua:		1592kbps(CBR)
Video I	nfo —	
Video F	ormat:	mp4 file
Video S	ize	704 * 576
Video Fi	ramerate	⁽ 25.00fps
-Audio I	nfo —	-
Audio F	Format	G722-16
Audio Bitrate:		16000
Audio (Channel	Single Channel
Bitrate	:	16000

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,

8

the file name will be displayed on file list as below:

Status	Source File	Destination	Convert Progress	Source file lenth(KB)	
2	20091010_134216	20091010_134216.avi		545	Cor
2	20091010_134219	20091010_134219.avi		7968	Cor
-	20091010_134301	20091010_134301.avi		11855	Cor
		A	ddFile		
		A D C M M	dd Folder elete File ear ove Up ove Down		
	Video Set Audio Set StartConvert Preview				
		C 34	Cut File Joint File		
		،دا			

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 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:

Status	Source File	Destination	Convert Progress	Source file lenth(KB)	
[a]	20091010_134216	20091010_134216.avi		545	Сог
44	20091010_134219	20091010_134219.avi	3%	Converting	Cor
2	20091010_134301	20091010_134301.avi	100%	Convert Success	Сог
8				1	5

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:

Stream Set Dialog		
Device IP: 172.8.117.60	PORT:	8000
User Name: admin	PassWord:	12345
Channel: 16		
[ОК	Cancel

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:

tus	Source File	Destination	Convert Progress	Source file lenth(KB)	notes	Source Destination Preview
				Hand Stop	Convert To AVI	C:OCXSaveAllFiles/Record/2009- Ceneral Info Duration: 00::00::01 Bit/Qua: 243kbps(CBR) Video Info Video Format: mp4 file Video Format: 30.00fps Audio Info Audio Format G722-16 Audio Format G722-16 Audio Ditrate: 16000 Audio Channel Single Channel Bitrate : 16000

onvert File Info			
ource File Path :	C:\OCXSaveAllFiles\Record\2009-10-09\172.8.115.64_01_20091009_151553.mp4		
estination File Path:	C:\Documents and Settings\roy\Desktop\172.8.115.64_01_20091009_151553.avi		

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)

Status	Source File	Destination	Convert Prog	Source file	notes
- C	20090217_143546.mp4	20090217_14			Convert To AVI
-0	20090217_143545.mp4	20090217_14			Convert To AVI
	20090217_143545.mp4	20090217_14			Convert To AVI
	20090217_143545.mp4	20090217_14			Convert To AVI
	20090217_143546.mp4	20090217_14			Convert To AVI
	20090217_143546.mp4	20090217_14			Convert To AVI
	20090217_143546.mp4	20090217_14			Convert To AVI
	20081226_174229.mp4			289	Convert To AVI

File List Item Description

Status	Source File	Destination	Convert Prog	Source file	notes
orarao	000100110	Destination	convoir riog	oodroo mo	notoo

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
1	Added file
	File on converting
Ĩ	File error
Õ	Manual stop
	Convert complete

Source File length

Icon	Display source file length before converting
60 C	Display "converting" when file is on converting
	File on converting
	If there is converting error, it will be prompted
Ò	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.
0	Stop Convert	Stop current converting process.

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

Convert File List Editing Tools

×	D	
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:

Open File
Save As

Click Open File... , select the original file which are to be cut, click Save As

, choose file saving directory, set the file start time, if not setting, the

default settings should be the whole file, shown as:

Cut File Dialo	3	
Source File: C:\OCXSaveAllF	iles\Record\2009-10-09\17	Open File
Target File;		Save As
Cut Start Pos:	0	
Cut End Pos:	[30]	Cancel

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:

	Cut File Dialog
	Source File:Open File C:\OCXSaveAllFiles\Record\2009-10-09\172.8.115.64_01.
HikFormatConvert	arget File:
ОК	Lut Start Pos: 0 Lut End Pos: 30
	Cut Cancel

Joint Files (Local File Only)

Merge File Dia	log	×
Source File:	Open	
Start Pos: 0		
End Pos: 0		
Ok	Save As Clear List	
		-
	Continue L. Const.	-
	Cancel	

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

documents	just repeat	the operation,	shown as:

EormatConvert V3.0		
C WILV C WILL C MARK	LocalFile Convert Progress Source file lenth(KB) notes	Source Destination Preview
	Merge File Dialog Source File: Open Start Pos: 0 End Pos: 0 Ok Save As Clear List Clear List C:\OCXSaveAllFiles\Record\2009-10-09\172.8.115.64_01_20091009 C:\OCXSaveAllFiles\Record\2009-10-09\172.8.115.64_01_20091009	Ceneral Info Duration: Bit/Qua: Video Info Video Format: Video Size Video Framerate: Audio Info Audio Format: G722-16 Audio Bitrate: 16000 Audio Channel Single Channel Bitrate
Convert File Info Source File Path : Destination File Path:	Start Merge Cancel	

Save As Click

,choose the destination document saving path, then click ,documents start to splicing, when splicing completed, it will

Merge File D	ialog	×
Source File:	HikFormatConvert IFiles Merge File Done!!!!!! OK	Open t d 01_20091009 d 01_20091009
	Start Merge	Cancel

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.