

Contents

- 1. General3**

- 2. Manual backup4**
 - 2.1. Backup to direct attached storage..... 4
 - 2.1.1. How to backup 4
 - 2.1.2. How to playback 9
 - 2.2. Backup to PC over network..... 16
 - 2.2.1. How to backup 16
 - 2.2.2. How to playback 19

- 3. Automatic backup.....20**
 - 3.1. NAS (Network Attached Storage) system 21
 - 3.2. Linux computer 22

- 4. Converting Backup Data to MPEG1 / AVI file24**
 - 4.1. How to convert 24
 - 4.2. How to playback 28

- Appendix. Backup Media Configuring.....29**

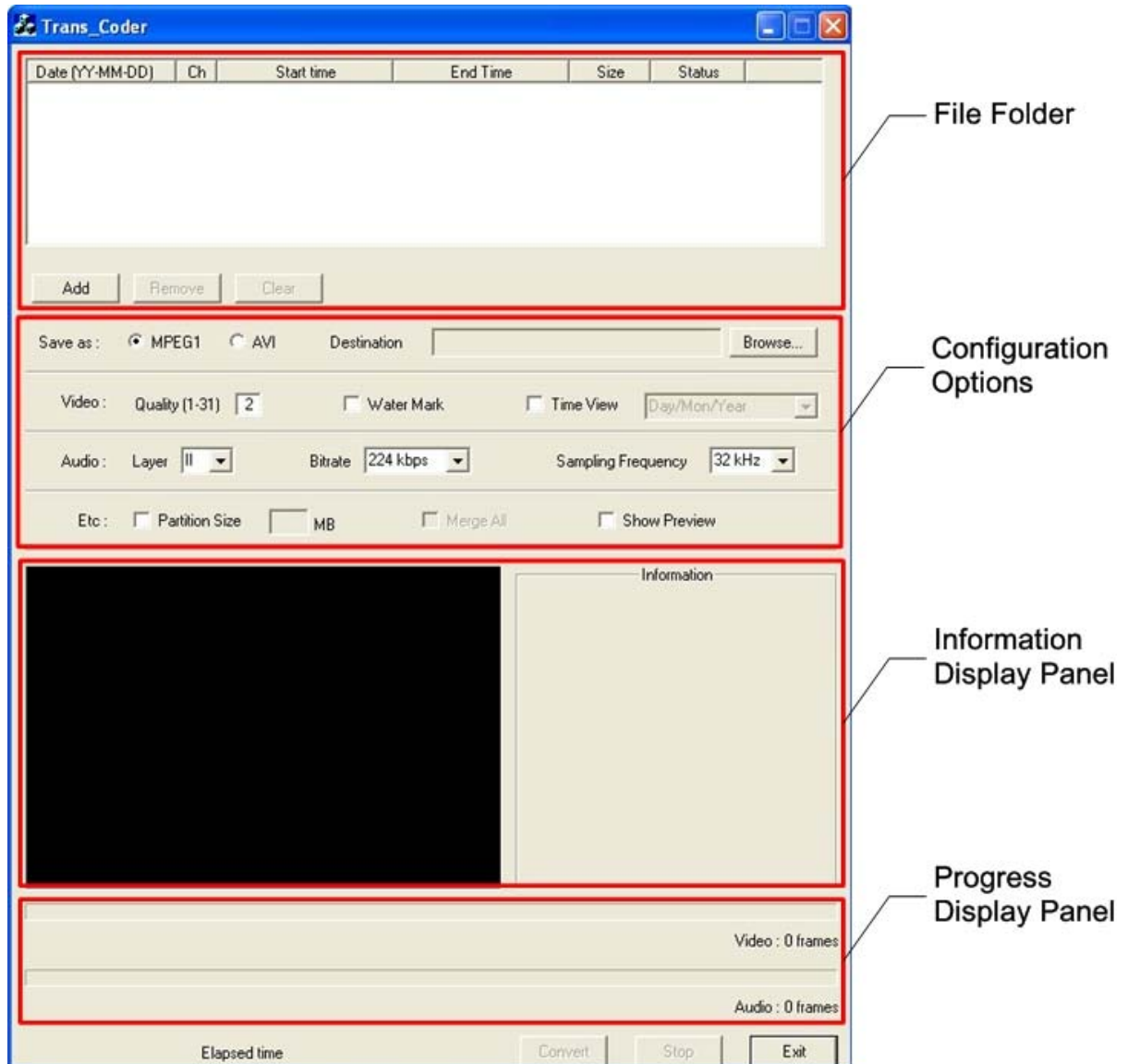
4. Converting Backup Data to MPEG1 / AVI file

The manually downloaded video clip can be converted into MPEG1 or AVI video that is compatible with standard Windows Media Player. Especially with the MPEG1 format, the converted video clip is compatible with a hardware DVD player.

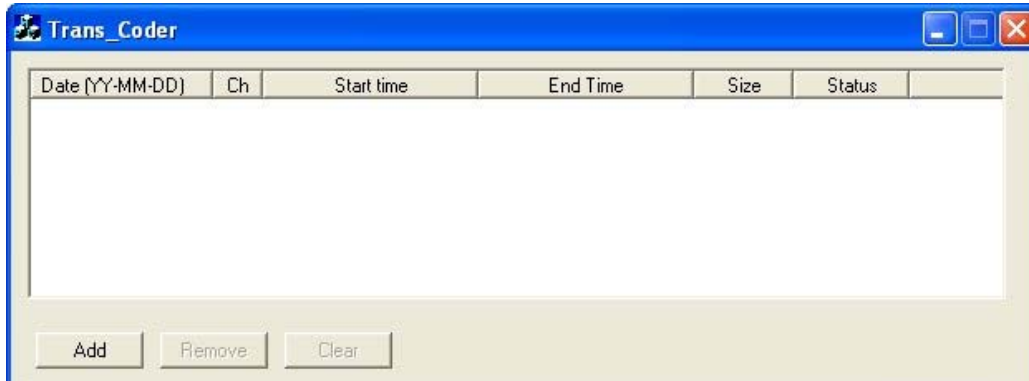
4.1. How to convert

User can convert video clip to MPEG1 or AVI as below.

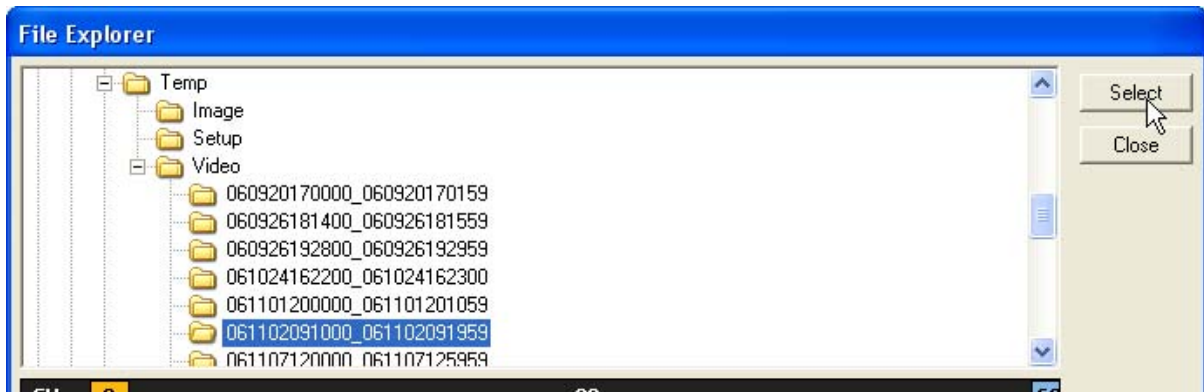
- 1) Open the file format converting program ‘TansCoder’ that is installed into the same directory as the remote viewer software is installed. The software has four parts; a folder holds selected files, a panel of options to configure, information display panel, and progress bars.



- Click 'Add' button in the file folder panel.



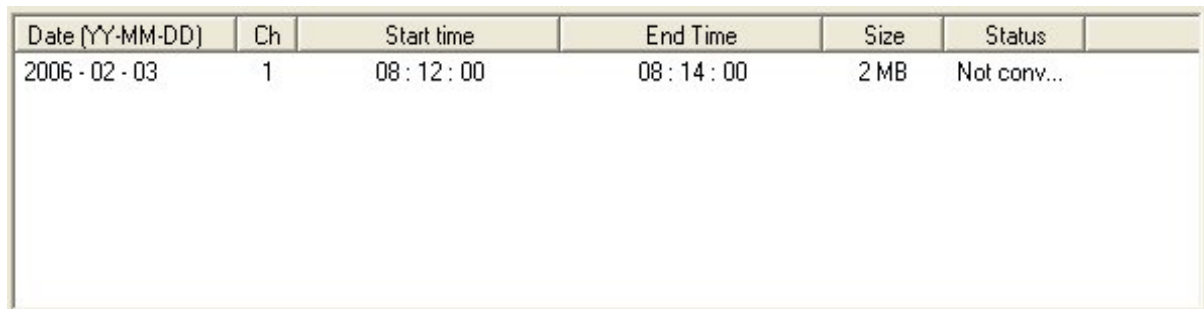
- Select a folder where a target file locates and click 'Select' button.



- Select video channel, define time duration (start time and end time), and click 'Add' button.



- Selected video file is listed in the file folder panel.



- 6) Define the conditions to which the original data shall be converted. Especially with the Audio, it is very important to set 'Bitrate' as '192kbps' to make the converted file compatible with hardware DVD player.

The screenshot shows a software interface for file conversion. At the top, there are radio buttons for 'MPEG1' (selected) and 'AVI'. A 'Destination' field contains the path 'C:\Documents and Settings\Administrator' with a 'Browse...' button. Below this, the 'Video' section includes a 'Quality (1-31)' dropdown set to '2', a 'Water Mark' checkbox (unchecked), a 'Time View' checkbox (checked), and a 'Day/Mon/Year' dropdown. The 'Audio' section features a 'Layer' dropdown set to 'II', a 'Bitrate' dropdown set to '192 kbps', and a 'Sampling Frequency' dropdown set to '32 kHz'. At the bottom, the 'Etc.' section has checkboxes for 'Partition Size' (unchecked), 'Merge All' (unchecked), and 'Show Preview' (unchecked).

- **File Format:** Select between MPEG1 and AVI format. **MPEG1** is recommended.
- **Destination:** Designate the path and name the file
- **Video**
 - **Video Quality:** Select a quality to make. 1 is the best quality and 31 is the lowest quality. **Quality 2** is recommended.
 - **Water Mark:** The watermark that is inserted during the recording is removed when the file is converted. Therefore it is necessary to add another watermark to the file during the converting process if watermark is required.
 - **Time View:** Select this option and define the format to display the time information along with the video and audio. To utilize as evidence, it is recommend activating this option.
- **Audio**
 - **Audio Layer:** MPEG has three different layers of audio. **Layer II** is for Video CD and Layer III is for MP3.
 - **Bitrate:** Bigger bitrate sounds better audio. To make the file is compatible with hardware DVD player, this option shall be configured as '192kbps'.
 - **Sampling Frequency:** Select any option. 48 KHz option makes the converted audio similar to the original sound, but the file size is bigger than 32 KHz.
- **Partition:** This option is to part the entire file into several pieces to meet the defined limitation.
- **Preview:** This option is to display video while converting process. It is not recommended using this option because it will decrease the converting performance.

- 7) Click 'Convert' button to the bottom.
 - Firstly video is converted



The screenshot shows a software interface for video conversion. On the left is a video preview window displaying a room with a round table and a desk. On the right is an 'Information' panel with the following text: 'FileName : Test.mpg', 'Image Resolution : 704 X 480, 24bpp', 'Encoding Rate : 30.25 fps', and 'Mpeg1 Video Size : 256KB (0MB)'. Below the preview is a progress bar that is almost empty, with the text 'Video : 192 frames (5%)' to its right. At the bottom right, it says 'Audio : 0 frames (0%)'.

- When video is completed and audio is converted if the data contains audio data.



The screenshot shows the same software interface as above, but now with a full blue progress bar and the text 'Video : 3627 frames (100%)' to its right. The 'Information' panel on the right now includes 'Mpeg1 Audio Size : 0KB (0MB)'. At the bottom right, it says 'Audio : 461 frames (13%)'.

4.2. How to playback

Once the file is converted into MPEG1, it is no need to use the proprietary software from Axium, and the standard video player such as Windows Media Player is to use to review the video.



AXIUM TECHNOLOGIES INC.

465 N. Halstead Street Suite 110, Pasadena, CA 91107, USA

Tel: (626) 351-1200 Fax: (626) 351-3660 www.axiumtech.net