

# **Capturing Video**

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# Capturing Video

The Capture Utility provides synchronous capture of video and stereo audio into a small Source Clip File for use by the Editor. It is recommended that time code be burned in on the start of the video to ensure that no frames are dropped during the video capture.

Capturing video is accomplished through the installed ATI Capture Utility. The utility is found on the ATI launch pad.

The video should be captured to a storage drives such as the E:\ drive. This file becomes the Source Video File that will be opened in the Player once ProCAP has been started.



The captured Source Video Files can be stored on a server for central access. The Source Video File should always be copied to the local workstation for maximum performance and reliability.

For more information about the ATI Capture Utility, refer to the Introduction to the ATI Capture Utility.

For more information about capturing video, see Capture Hints and Tips.



Scene change lists can also be created using MGI VideoWave 4. For further information refer to Creating Scene Change List.

# Introduction to the ATI Capture Utility

Video capture is accomplished through the included ATI Television or Video In Application. The different versions of the Television and Video In Application have minor differences between each other dependent on version and on Operating System. The steps involved to capture a Source Video File are as follows:

1. Open the ATI Television application. The utility is found on the ATI launch pad or by executing **Start → Programs → ATI Multimedia Center → Television or Video In.**



2. Cue the source video material. The ATI Capture Utility the current input video stream by default.
3. Press the **Record**  button to start the record operation, once the source VTR is playing and ready. Verify that the time code burn-in is visible over the start of the capture operation.
4. Press the **Stop** button to complete the record operation. The **Record** button on the main application window changed to a **Stop** button after the recording operation started. Another stop button is available on the capture status window.
5. Verify that no frames were dropped. The capture status window, that became visible upon capture start, indicates in the top window labelled the

duration of video captured, and the number of frames dropped (or percentage of frames dropped). Typically, only the current duration of the captured video will be visible.

6. Verify the Time base, whether the video captured was drop frame or non-drop frame. This will be very important when the Source Video Clip is first opened in ProCAP. A Source Clip Property box will appear and ask for the Time base to be entered.
7. Save the video file. The video file was captured to the D: drive, labelled "Capture". The video file should be saved to a storage drive, usually E:\. Video files should not be saved to the capture drive, as that may cause it to fail over time.
8. The source video file is now ready for caption authoring, and can be opened after ProCAP has been started.

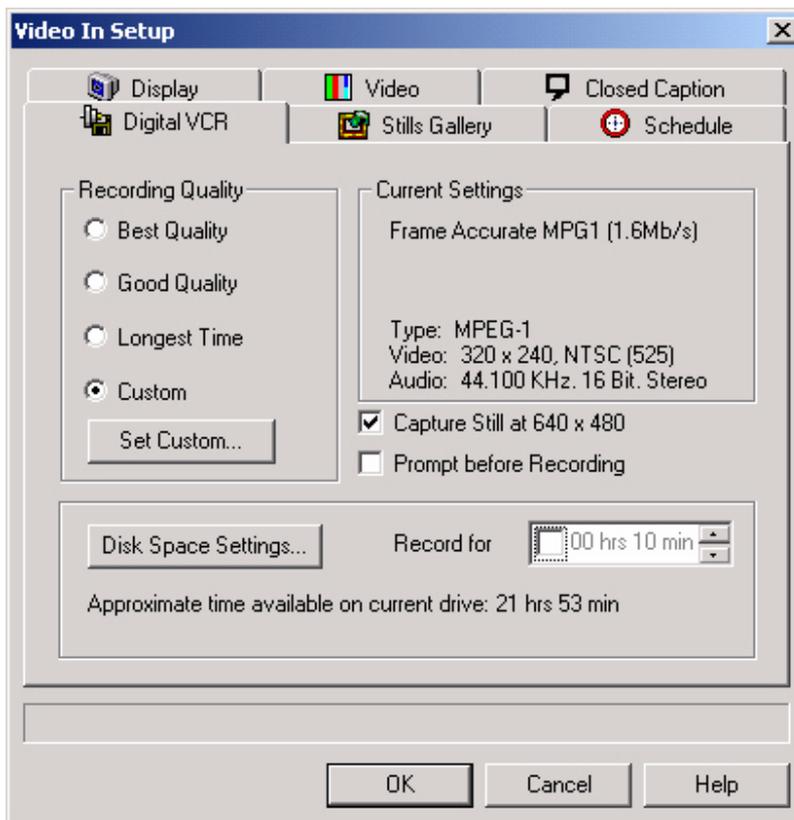
 Time code must be burned into the first part of the captured video.

 The captured source video files can be stored on a central server for central access. The file should always be copied to the local workstation for maximum performance and reliability.

For more detailed information about the ATI Television application, refer to the help facility located within the ATI application.

# Different Capture Formats

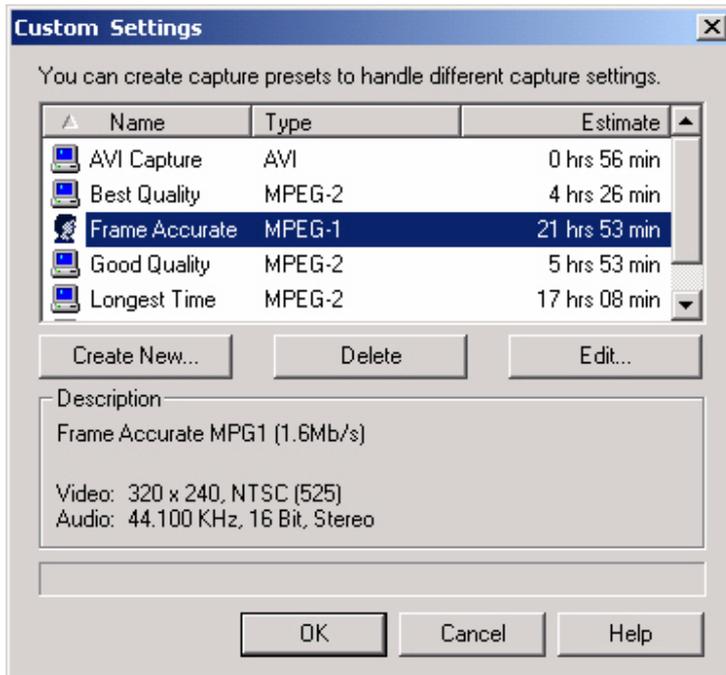
The capture settings for both video and audio can be modified prior to capture through the **Setup** button (**Ctrl + S**), on the ATI Capture Utility. The following form will appear:



MPEG-1 is the recommended capture format. The default recommended setup captures MPEG-1 files with video settings of 29.97 frames per second, 320x240 in size, a data rate of 1.5 megabits per second, and with stereo audio settings of 44.1kHz at 16 bit samples. These default settings result in approximately an 800MB/hour video file.

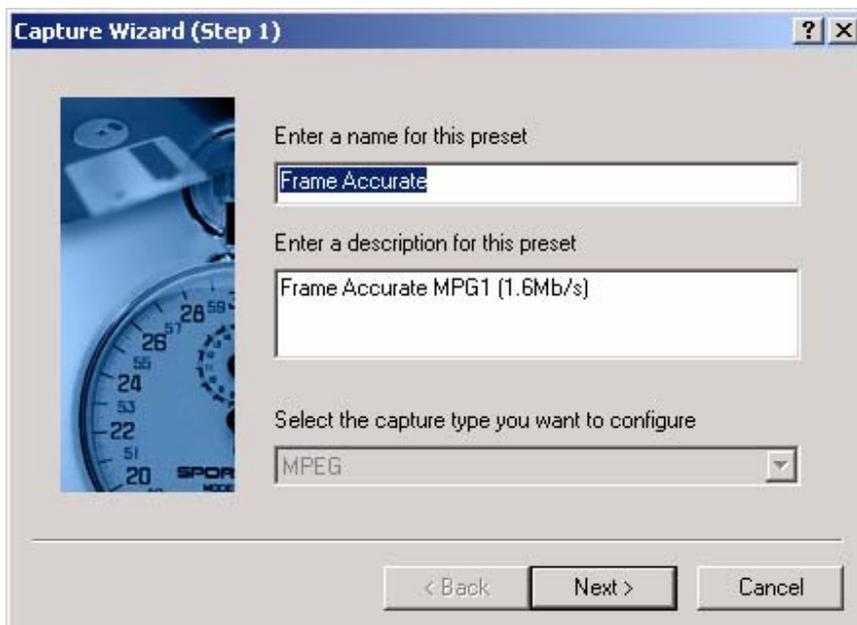
The lowest usable quality (highest usable compression) for Source files is recommended. The captured Source files are intended to be discarded after being used for caption authoring and any other in-house viewing purposes.

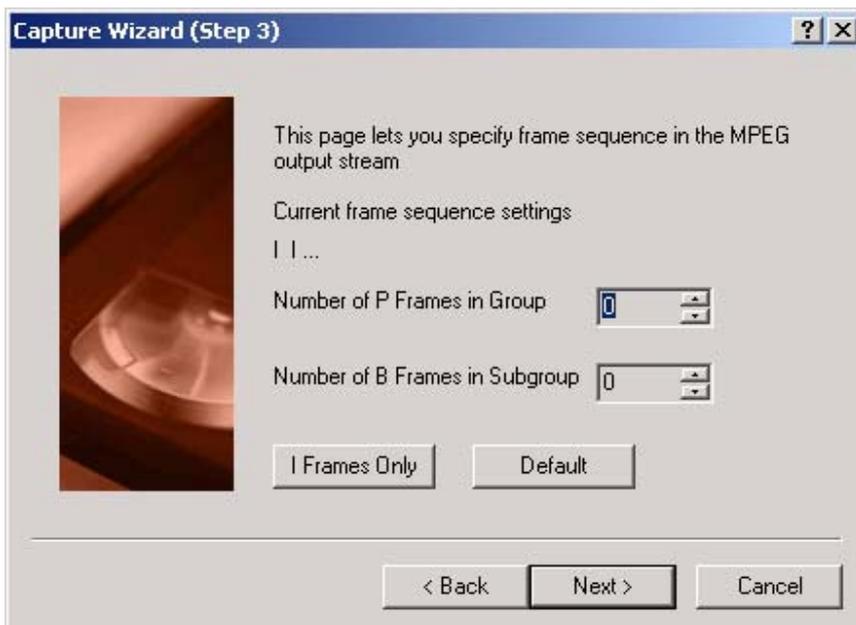
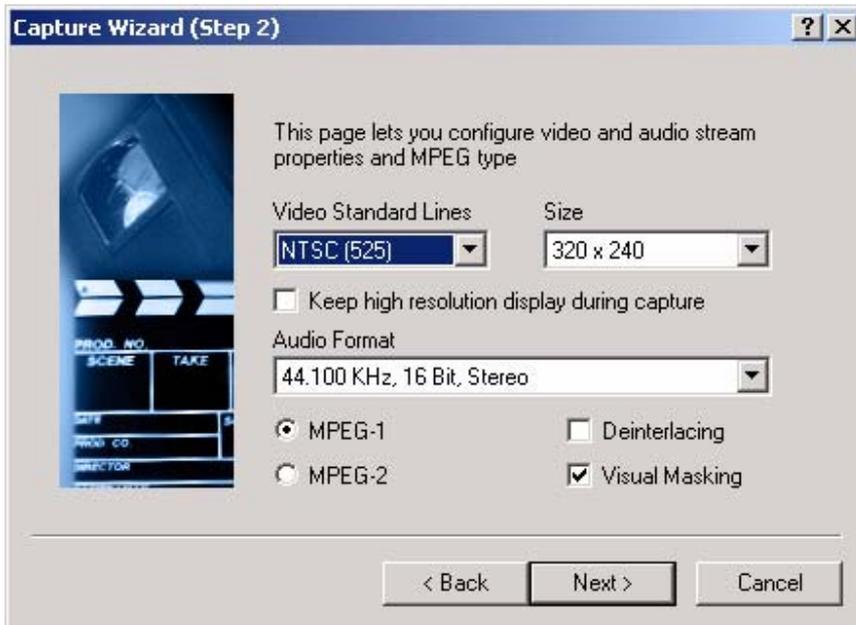
The default capture settings can be set by pressing the **Set Custom...** command button on the **Video In Setup** dialog box.

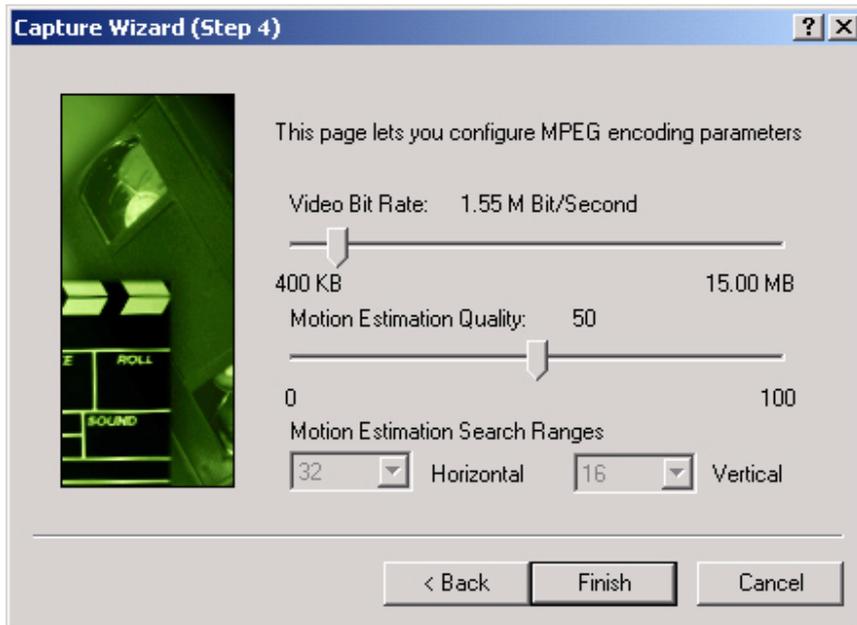


To edit a capture setting, press the **Edit...** command button in the **Custom Settings** dialog box.

The following shows the recommended default capture settings:



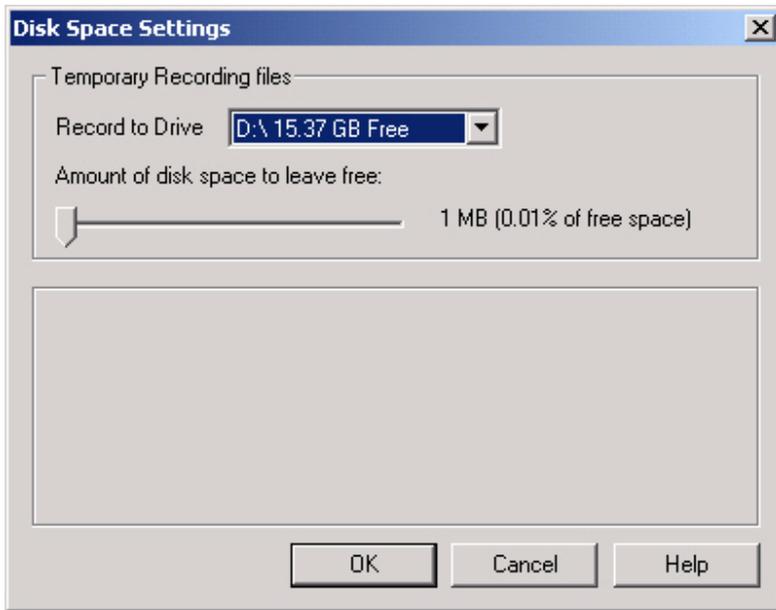




Source video files are stored as standard Microsoft video files that are viewed by the captioners using the Author application. The Microsoft DirectX subsystem is used for multimedia playback, allowing any file that can be played by Media Player to be played back in ProCAP.

ProCAP provides a green status light for video files that allow frame access, such as MPEG-1 files. Such files are required for frame accurate closed captioning. Some file formats, such as MPEG-2, do not allow frame access and are not recommended.

To minimize dropped frames during capture, the capture drive should be set D:\ the dedicated capture drive. To set the capture drive, press the **Disk Space Settings...** command button from the **Video In Setup** dialog box.



## **Capture Tips & Problems**

# Capture Hints and Tips

The system used for capture should have a dedicated capture hard drive, 7200rpm or faster, and ATA100 or faster interface. The capture drive should only be used for the current video capture - do not use it for storing videos. The system drive, or a storage partition on the system drive should be used for storing all captured videos. Storing videos on the capture drive will lead to frame drops during capture. The ATI Television or Video In Application must have the dedicated capture hard drive configured as its drive for temporary storage.

To avoid dropped frames, reboot the system periodically and refrain from running other applications during the capture operation. This includes screen savers and network access of the capture system from other systems.

The duration of the capture can be set when configuring the capture format. The record duration may be in seconds, so a duration of 3600 will record for one hour.

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