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:

 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.

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			<u> </u>		40	

- 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 Vide Clip is first opened in ProCAP. A Source Clip Property box will appear and ask for the Time base to be entered.
- 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:

Video In Setup			×
🜒 Display 📔 🚺	🖞 Video 🛛 🕅	Closed Caption	
Recording Quality C Best Quality C Good Quality C Longest Time C Custom	Current Settings Frame Accurat Type: MPEG-1 Video: 320 x 2 Audio: 44.100	e MPG1 (1.6Mb/s) 1 140, NTSC (525) 1412, 16 Bit. Stereo 1640 × 480	
Set Custom Disk Space Settings Approximate time available	Record for on current drive: 21	Recording	
	OK	Cancel Help	

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.

Custom Settings		×			
You can create capture presets to handle different capture settings.					
🛆 Name	Туре	Estimate 🔺			
📃 AVI Capture	AVI	0 hrs 56 min			
📃 Best Quality	MPEG-2	4 hrs 26 min			
🖉 Frame Accurate	MPEG-1	21 hrs 53 min			
📃 Good Quality	MPEG-2	5 hrs 53 min 🛁			
📃 Longest Time	MPEG-2	17 hrs 08 min 🗨			
Create New	Delete	Edit			
Description					
Frame Accurate MPG	61 (1.6Mb/s)				
Video: 320 x 240, NTSC (525) Audio: 44.100 KHz, 16 Bit, Stereo					
[ОК Са	ancel Help			

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

Capture Wizard (Ste	ep 1)	<u>?</u> ×
20	Enter a name for this preset	
	Enter a description for this preset Frame Accurate MPG1 (1.6Mb/s)	_
28 28 28 14 24 15	Select the capture tupe you want to configure	
-22 -51 20 SPOR	MPEG	¥
-	< Back Next > 0	Cancel

The following shows the recommended default capture settings:

1	This page lets you config properties and MPEG type	ure video and audio stream e
1	Video Standard Lines	Size
Y.	NTSC (525) 🗾 💌	320 x 240 💌
	Keep high resolution (display during capture
	reep nightesoladorre	alopidy doming outplane
100 NO.	Audio Format	arephay adminig capitalio
HOD NO. SCENE TAKE	Audio Format 44.100 KHz, 16 Bit, Ster	eo 🔽
HOD NO. SCENE TAKE	Audio Format 44.100 KHz, 16 Bit, Ster	eo 🔽 Deinterlacing
NDO NO	Audio Format	and have a second second

Capture Wizard (Step 3)	<u>?</u> ×
	This page lets you specify frame sequence in the MPEG butput stream Current frame sequence settings T Number of P Frames in Group Number of B Frames in Subgroup T Frames Only Default
	< Back Next > Cancel

Capture Wizard (Step 4)
This page lets you configure MPEG encoding parameters Video Bit Rate: 1.55 M Bit/Second Video Bit Rate: 1.55 M Bit/Second 400 KB 15.00 MB Motion Estimation Quality: 50 0 100 Motion Estimation Search Ranges 100 32 Horizontal 16 Vertical
< Back Finish Cancel

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.

Disk Space Setting	s		X
Temporary Record	ding files		
Record to Drive	D:\ 15.37 GB Free	-	
Amount of disk sp	ace to leave free:		
U		1 MB (0.01% of fre	e space)
	ΟΚ	Cancel	Help

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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