

StudioZ Starts Here!

Important Installation and Operation Notes

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INTERGRAPH
COMPUTER SYSTEMS

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General Information

Delayed Power-up

You may notice that your workstation seems to hang when you are booting up, or displays the message “Device Not Ready.” Because of initial power requirements, drive spin-up is delayed by 12 seconds times the SCSI ID number of each disk drive. For example, disk drive 4 (SCSI ID 4) is delayed 12 seconds times 4, or 48 seconds. This is not a problem; the disk drive will be ready when the BIOS process finishes. The required system BIOS level is 8000D or later.

StudioZ Options

Ensemble Serial Box I with PAL

The Ensemble Serial Box I is an optional A/D converter you can purchase for your StudioZ workstation. If you experience a vertical roll when using the Serial Box I with PAL, verify that the DIP switch setting (S1) in the converter is set to PAL. You will have to open the converter box to make this change. See the *Serial Box Digital and Analog Converters Technical Manual* delivered with your A/D converter for more information.

Single-Channel InterRAID-8e Video Storage

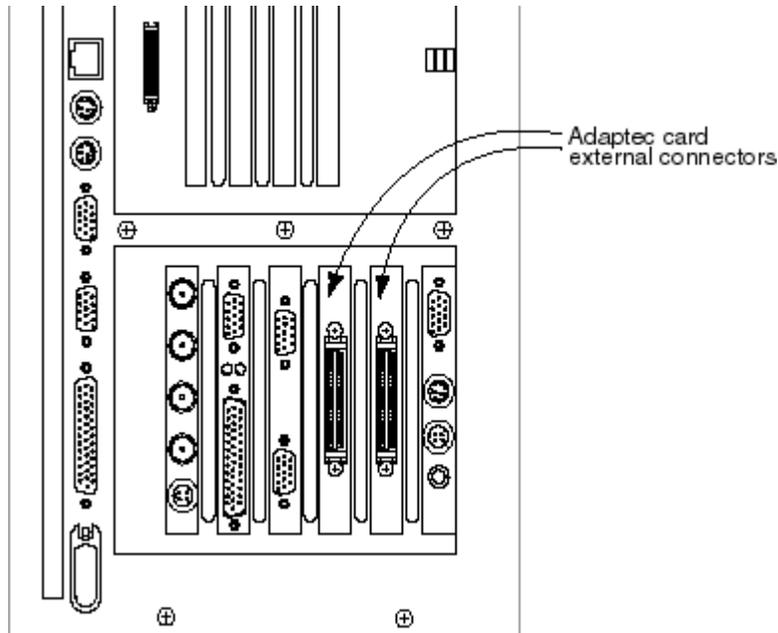
If you purchased the Just a Bunch of Disks (JBOD) FDSK590 InterRAID-8e (IR-8e) disk array for your StudioZ workstation, you can create even more uncompressed and compressed video file storage by purchasing the single-channel IR-8e (FDSK548) disk array. Each single-channel IR-8e provides an additional hour of video storage space.

The StudioZ for SOFTIMAGE|DS comes with two Adaptec cards, while the StudioZ Pro and StudioZ T-RAX workstations come with one. If you have either the StudioZ Pro or the StudioZ T-RAX, you will need to purchase an additional Adaptec controller.

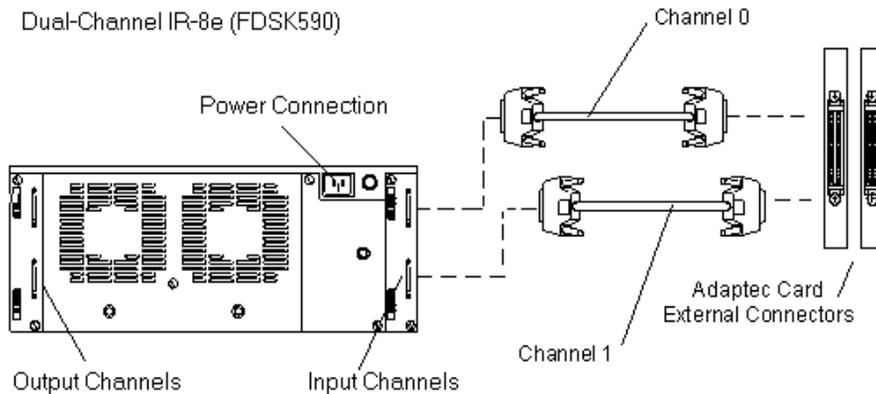
NOTE The JBOD IR-8e video storage option, setup instructions, and disk striping instructions are provided in Appendix A, “StudioZ Options,” in the *StudioZ Hardware User’s Guide*.

NOTE If you have to purchase an additional Adaptec controller, see Chapter 4, “System-Specific Information,” in the *StudioZ Hardware User’s Guide* for information on installing the driver for that controller.

The Adaptec cards take up slots two and three on the StudioZ workstation. Refer to the following illustration for the slot assignments.

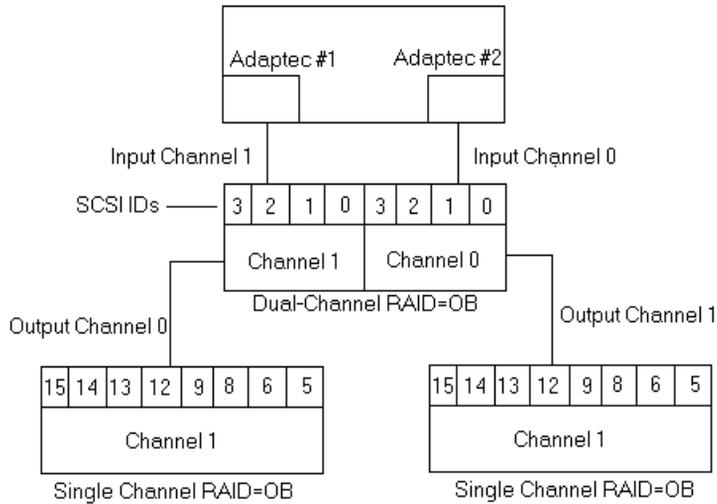


The following illustration shows the cables connected from the Adaptec card external connectors to Channel 0 and 1 of the JBOD dual-channel IR-8e:



Connecting Additional Single-Channel IR-8e Disk Arrays

Because of the IR-8e drive configuration, you will need to purchase single-channel IR-8e disk arrays in multiples of two. These first two single-channel IR-8e disk arrays (FDSK548) to the JBOD (FDSK590). You can purchase subsequent sets of single-channel IR-8e disk arrays to connect to each previous single-channel IR-8e. The following illustration shows how the first single-channel IR-8e set connects to the JBOD.



To connect the single-channel IR-8e disk arrays:

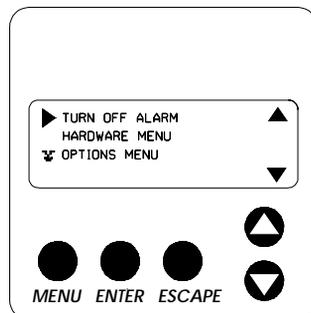
1. Using an MCBL220A7 cable, connect the Channel 0 output on the JBOD (this is the channel furthest from the power connection) to the Channel 1 input on the first single-channel IR-8e (FDSK548).
2. Using another MCBL220A7 cable, connect the Channel 1 output on the JBOD to the Channel 1 input of the second single-channel IR-8e.

Configuring Single-Channel IR-8e Disk Arrays

Once you have connected the IR-8e (FDSK548) disk arrays to the JBOD IR-8e, you must remove and reset the SCSI IDs for the SAFTE ID, the lower slot, and the upper slot of the single-channel IR-8e.

To set the SAFTE ID:

1. Turn on power to the IR-8e, and then press Menu on the Information Control Panel (ICP). (See the *InterRAID-8e Hardware User's Guide* for power switch and ICP location.)



2. Press MENU again to display the list of menus.
3. Use the arrow keys to move to the OPTIONS menu, and then press ENTER to display that menu.
4. Select the SCSI ID menu and press ENTER.
5. Select SET SAFTE ID and press ENTER.
6. Use the arrow keys to change the SAFTE ID to OB (for off bus), and then press ENTER.
7. Press ESCAPE to return to the SCSI ID menu.

To set the Lower Slot ID:

8. You should be in the SCSI ID menu; select SET LOWER SLOT IDS and press ENTER.
9. Use the arrow keys to move to the selection, **5 6 8 9**, and then press ENTER.
10. Press ESCAPE to return to the SCSI ID menu.

To set the Upper Slot ID

11. You should be in the SCSI ID menu; select SET UPPER SLOT IDS and press ENTER.
12. Use the arrow keys to move to the selection, **12 13 14 15**, and then press ENTER.
13. Press ESCAPE until you have exited all of the menus.
14. Follow steps 1 through 13 to perform the same function on the other single-channel IR-8e.

NOTE

The IDs for the second single-channel IR-8e will be the same (that is, 5, 6, 8, and 9 for the lower slot; and 12, 13, 14, and 15 for the upper slot).

15. After you finish naming the slots on the second single-channel IR-8e, reboot your workstation.
16. Load and run the Fix Disk utility. This utility enables write caching — without it you will drop frames when working with uncompressed video.

NOTE

See the following section, “Obtaining the Fix Disk Utility,” for more information.

17. Once your workstation reboots and you have run the Fix Disk utility, set up the drives as a stripe set. See the *StudioZ Hardware User's Guide* for information on creating stripe sets.

Obtaining the Fix Disk Utility

You can get the Fix Disk utility from the Intergraph Bulletin Board Service (IBBS). See the Preface in the *StudioZ Hardware User's Guide* for information on the IBBS.

To get the Fix Disk Utility:

1. Using your Web browser, go to the IBBS File Libraries page (<http://archive.intergraph.com/bbs/ibbsfile.htm>).
2. On the IBBS File Libraries page, scroll down the list and select DIG3PH.
3. Select the Fix Disk utility from the page that displays.

StudioZ for SOFTIMAGE|DS

Flashkey

If you install a new version of SOFTIMAGE|DS or upgrade your StudioZ for SOFTIMAGE|DS workstation, run the INSTALL_INL.BAT file from Disk 3 of the Flashkey driver.

Antex Driver Settings

Currently, a bug in the Antex driver causes the system to lose your Antex settings in SOFTIMAGE|DS. See the *Intergraph StudioZ for SOFTIMAGE|DS System Guide*, delivered with your workstation, for more information.

Antex Driver Reinstallation

If you need to update or reinstall the Antex Digital Audio Driver, you must remove the current Antex Digital Audio Driver first. The latest driver is delivered on a diskette with your Antex Studio Card. See the documentation delivered with the Antex Studio Card for more information.

To remove the current Antex Digital Audio Driver device:

1. Verify that you are logged on as Administrator.
2. From the Windows NT Start menu, go to Settings/Control Panel/Multimedia.
3. On the Multimedia Properties dialog box, click the Devices tab.
4. From the list of Multimedia devices, double-click Audio Devices.
5. Select Audio for Antex Digital Audio Driver from the list of audio devices, and click Remove.
6. Click Yes when prompted to confirm the device removal. Do not close the Multimedia Properties dialog box.

NOTE Do not click OK or Cancel on the Multimedia Properties dialog box. You will need this dialog box in the following instructions.

NOTE Due to a problem removing the Antex driver, the following steps **MUST** be taken.

To remove the current Antex Digital Audio Driver from the registry:

1. From the Windows NT Start menu, select Run and type **regedit** in the Open field, then click OK.
2. In the Registry Editor, go to My Computer/HKEY_LOCAL_MACHINE/SOFTWARE/Microsoft/WindowsNT/CurrentVersion/Drivers32.
3. Under the Data column on the right side of the Registry Editor, locate ANTEXWAV.DLL.
4. Under the Name column, double-click the device associated with ANTEXWAV.DLL. This activates the Edit String dialog box.
5. Under Value data, highlight ANTEXWAV.DLL and click DELETE.
6. Click OK.
7. Repeat steps 3 through 6 to remove all occurrences of the ANTEXWAV.DLL (there should be a total of three; scroll through the Data column to locate them).
8. Select Exit from the Registry menu.
9. On the Multimedia Properties dialog box, click OK.
10. Shut down and restart your workstation. Once your system reboots, log on as Administrator.

To load and start the new driver:

1. Make sure that you are logged on as Administrator, and that all applications that use the audio card are closed.
2. Insert the diskette containing the latest driver (this diskette was delivered with your Antex Studio Card).
3. In Windows NT Explorer or My Computer, move to the drive containing the diskette (usually A:).
4. Double-click INSTALLBAT (not SETUP.EXE), and follow the prompts to install the driver. Accept all default settings.
5. Click OK on the Antex Audio Driver Setup dialog box.
6. Click Yes to confirm that all audio applications are closed. If an audio application is open, click No; close that application and click OK again on the Antex Audio Driver Setup dialog box.
7. From the Windows NT Start menu, go to Settings/Control Panel/Devices and verify that the Antex Digital Audio Driver is started (the word "Started" should display in the Status column). If the device is not started, select it and click Start.

8. Click Close to dismiss the Devices dialog box.

Stripe Sets

If you purchase the additional video storage option for your StudioZ for SOFTIMAGE|DS workstation (see “Single-Channel InterRAID-8e Storage Option” in this document), you must set up the internal drives on your workstation and the drives in each IR-8e as a single stripe set if you are using SOFTIMAGE|DS v1.0. The latest version of SOFTIMAGE|DS (v2.0) does not have this limitation.

NOTE See the disk striping instructions in the following sections, “StudioZ T-RAX” or “StudioZ Pro,” for information on striping the disks as more than one stripe set.

WARNING **When you stripe the internal drives, all information contained on them will be lost. See the *StudioZ Hardware User’s Guide* for more information.**

NOTE Use the Windows NT Disk Administrator program to stripe the disks. See the *StudioZ Hardware User’s Guide* for the advantages and disadvantages of both disk striping methods, and for instructions for both methods.

StudioZ T-RAX

Antex Driver Reinstallation

If you need to update or reinstall the Antex Digital Audio Driver, you must remove the current Antex Digital Audio Driver first. The latest driver is delivered on a diskette with your Antex Studio Card. See the documentation delivered with the Antex Studio Card for more information.

To remove the current Antex Digital Audio Driver device:

1. Verify that you are logged on as Administrator.
2. From the Windows NT Start menu, go to Settings/Control Panel/Multimedia.
3. On the Multimedia Properties dialog box, click the Devices tab.
4. From the list of Multimedia devices, double-click Audio Devices.
5. Select Audio for Antex Digital Audio Driver from the list of audio devices, and click Remove.
6. Click Yes when prompted to confirm the device removal. Do not close the Multimedia Properties dialog box.

NOTE Do not click OK or Cancel on the Multimedia Properties dialog box. You will need this dialog box in the following instructions.

NOTE Due to a problem removing the Antex driver, the following steps **MUST** be taken.

To remove the current Antex Digital Audio Driver from the registry:

1. From the Windows NT Start menu, select Run and type **regedit** in the Open field, then click OK.
2. In the Registry Editor, go to My Computer/HKEY_LOCAL_MACHINE/SOFTWARE/Microsoft/WindowsNT/CurrentVersion/Drivers32.
3. Under the Data column on the right side of the Registry Editor, locate ANTEXWAV.DLL.
4. Under the Name column, double-click the device associated with ANTEXWAV.DLL. This activates the Edit String dialog box.
5. Under Value data, highlight ANTEXWAV.DLL and click DELETE.
6. Click OK.
7. Repeat steps 3 through 6 to remove all occurrences of the ANTEXWAV.DLL (there should be a total of three; scroll through the Data column to locate them).
8. Select Exit from the Registry menu.
9. On the Multimedia Properties dialog box, click OK.
10. Shut down and restart your workstation. Once your system reboots, log on as Administrator.

To load and start the new driver:

1. Make sure that you are logged on as Administrator, and that all applications that use the audio card are closed.
2. Insert the diskette containing the latest driver (this diskette was delivered with your Antex Studio Card).
3. In Windows NT Explorer or My Computer, move to the drive containing the diskette (usually A:).
4. Double-click INSTALLBAT (not SETUP.EXE), and follow the prompts to install the driver. Accept all default settings.
5. Click OK on the Antex Audio Driver Setup dialog box.
6. Click Yes to confirm that all audio applications are closed. If an audio application is open, click No; close that application and click OK again on the Antex Audio Driver Setup dialog box.
7. From the Windows NT Start menu, go to Settings/Control Panel/Devices and verify that the Antex Digital Audio Driver is started (the word "Started" should display in the Status column). If the device is not started, select it and click Start.

8. Click Close to dismiss the Devices dialog box.

Stripe Sets

If you purchase the additional video storage option for your StudioZ T-RAX workstation (see “Single-Channel InterRAID-8e Storage Option” in this document), you can set up the internal drives on your workstation and the drives in each IR-8e as a single stripe set. Alternatively, you can set up the internal drives as one stripe set and the drives on the IR-8e disk arrays as another stripe set.

NOTE Use the Windows NT Disk Administrator program to stripe the disks. See the *StudioZ Hardware User's Guide* for the advantages and disadvantages of both disk striping methods, and for instructions for both methods.

StudioZ Pro

Stripe Sets

If you purchase the additional video storage option for your StudioZ Pro workstation (see “Single-Channel InterRAID-8e Storage Option” in this document), you can set up the internal drives on your workstation and the drives in each IR-8e as a single stripe set. Alternatively, you can set up the internal drives as one stripe set and the drives on the IR-8e disk arrays as another stripe set.

NOTE Use the Windows NT Disk Administrator program to stripe the disks. See the *StudioZ Hardware User's Guide* for the advantages and disadvantages of both disk striping methods, and for instructions for both methods.

Application Software

Adobe Premiere LE and Adobe Premiere 4.2

To best use Adobe Premiere LE with a StudioZ workstation, you should maintain certain configuration settings. These settings let you capture, edit, preview, and build in Premiere LE with maximum efficiency by using your workstation's digital video hardware at maximum performance. If you do not maintain these settings, you may encounter problems when using Premiere LE with your workstation's digital video hardware and StudioZ Central or StudioZ Central Plus.

For detailed information on Premiere LE, refer to the Adobe Premiere LE user documentation. For more information on StudioZ functionality, refer to the *StudioZ Hardware User's Guide* delivered with your workstation.

Scratch Disk

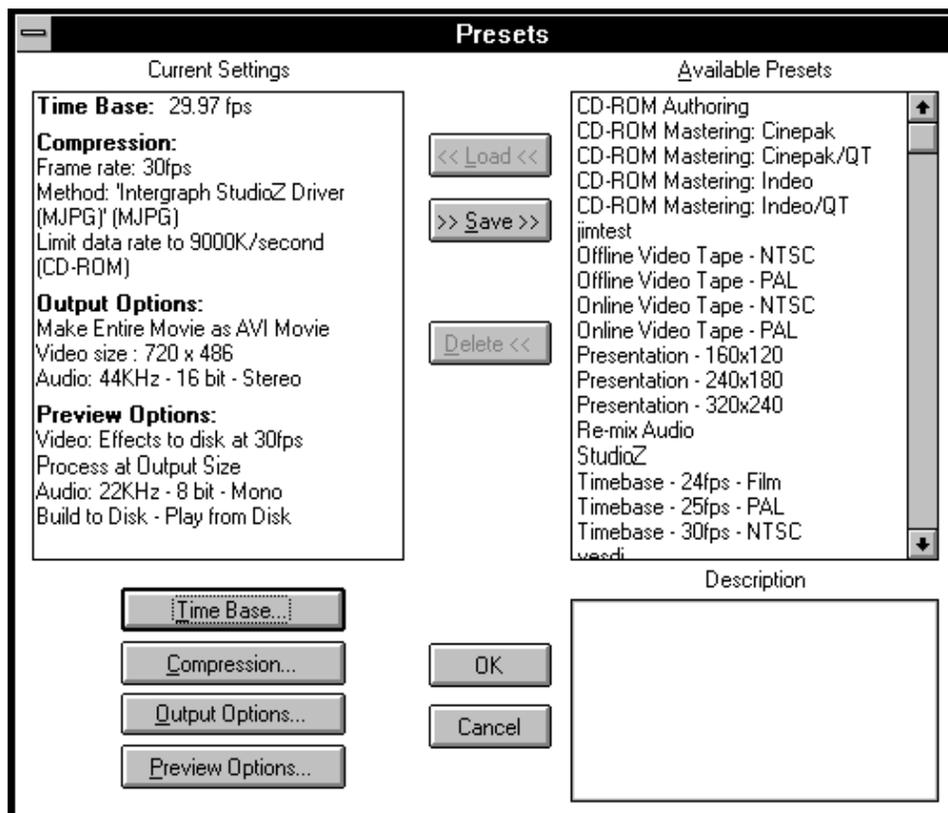
The first time you run Premiere LE, assign a scratch disk on your workstation. From the File menu, select Preferences. Set the scratch disk to the audio/video (A/V) drive on your StudioZ workstation with the most available free space (typically D:).

Preset

The first time you run Premiere LE, build a preset for your workstation. From the Make menu, select Presets. Set the correct values for Time Base, Compression, Output Options, and Preview Options, as described in the following sections.

When you save the new preset, name the preset StudioZ. The next time you run Premiere LE, select the appropriate preset name to use the preset values you have defined.

The following figure shows a preset built for a StudioZ workstation.



Time Base

In the Presets dialog, select Time Base. In the Change Time Base dialog, set Time Base to 29.97 frames per second (fps) for NTSC video (525 lines, 60 fields/sec) or 25 fps for PAL video (625 lines, 50 fields/sec).

Compression

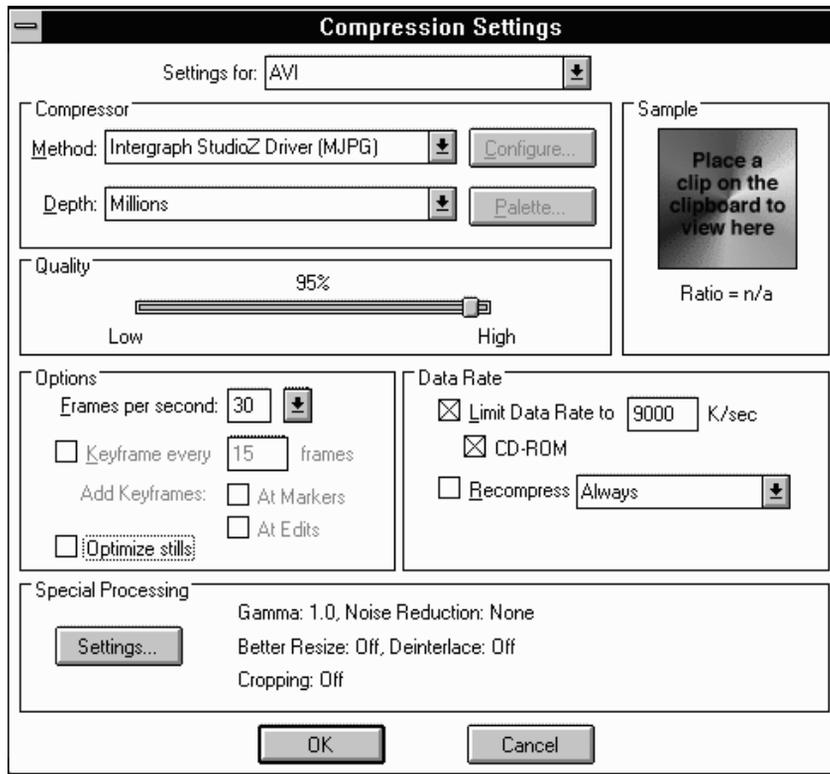
When building a movie, the compression and output settings work together to optimize the movie for StudioZ. The StudioZ Central or StudioZ Central Plus AVI play function is optimized for fast, high-quality playback. To achieve this level of performance, StudioZ Central and StudioZ Central Plus require an AVI file built with certain parameters. This section shows the settings you should use to assure optimum movie (AVI file) building for playback with StudioZ Central or StudioZ Central Plus.

In the Presets dialog box, select Compression. In the Compression Settings dialog box, use the settings shown in the following figure, with the following exceptions:

- ◆ Set Method to Intergraph StudioZ Driver (IYUV) for uncompressed or Intergraph StudioZ Driver (MJPEG) for compressed.
- ◆ Under Data Rate, set Limit Data Rate to 30,000 for YUV or 9,000 for MJPEG.
- ◆ Under Options, set Frames per second to 30 for NTSC video or 25 for PAL video.
- ◆ Under Quality, set the slider to the value you want. Start with a value of 85 percent to 90 percent (94 percent for MJPEG); you may have to use a lower value for some types of data.

The proper Quality setting is a function of the data to be compressed. Setting higher Quality values requires higher data rates for real-time playback. You may have to experiment to determine the optimal balance between image quality and disk storage requirements.

CAUTION Do not set Quality higher than 98 percent. This could build a movie at a higher data rate than Intergraph's digital video hardware can be play back.



CAUTION Under Options, do not select Optimize stills if you want to play back video using the StudioZ Central or StudioZ Central Plus playback function. To properly block the data for playback through StudioZ Central or StudioZ Central Plus, use the settings shown under Data Rate. Failure to use these settings will cause playback through StudioZ Central or StudioZ Central Plus to fail. You can still play the movie using Windows NT Media Player and other applications at a reduced rate.

NOTE Unless you select Recompress Always, only video sections to which filters or transitions are applied will be recompressed at the selected Quality value. Intergraph recommends that you leave Recompress Always unselected.

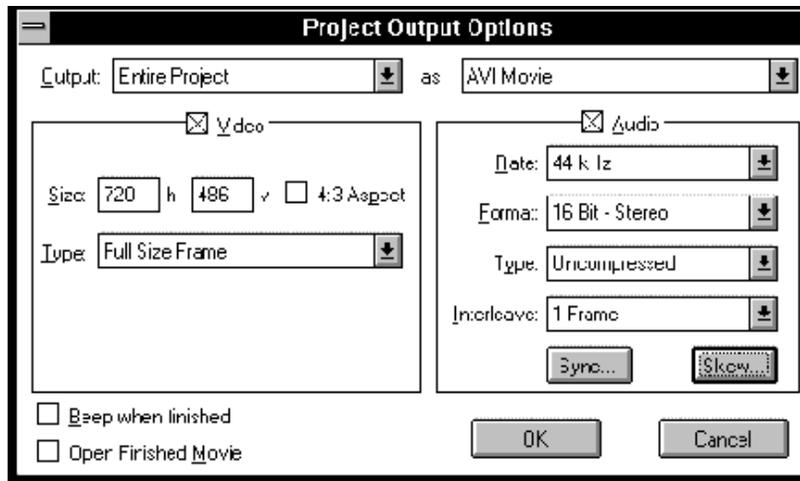
Output Options

When building a movie, the compression and output settings work together to optimize the movie for StudioZ playback. The Output Options settings are used when you create the final build of a movie.

In the Presets dialog, select Output Options. In the Project Output Options dialog, use the settings shown in the following figure, except as follows:

- ◆ Under Video, set Size to 720 x 486 for NTSC video, and to 720 x 576 for PAL video. Do not select 4:3 Aspect.
- ◆ Under Video, set Type to Field 2. Full Size Frame works, but provides rougher motion.

- ◆ Under Audio, set Rate and Format to meet your requirements.



You can set Output to Entire Project or Work Area, depending on your needs. Neither setting will affect the operation of your StudioZ workstation.

To set the Output Options:

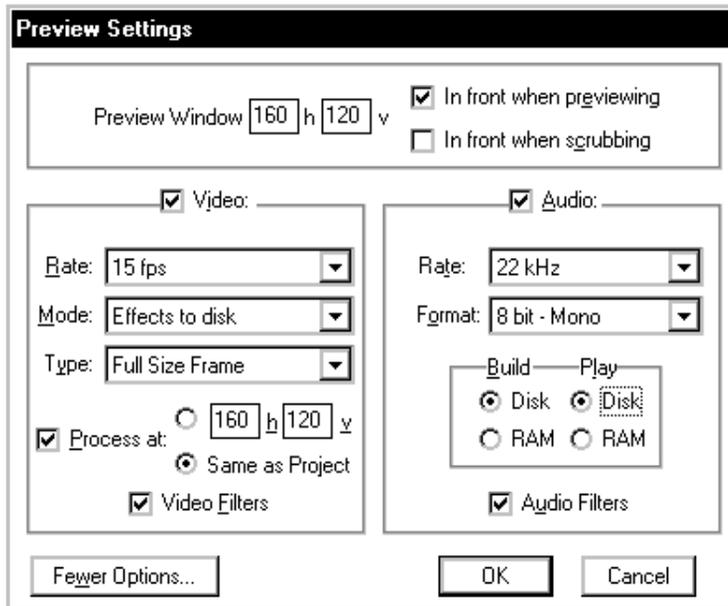
1. In the Project Output Options dialog, under Audio, make sure that Interleave is set to 1 Frame.
2. In the Project Output Options dialog, under Audio, select Sync. Set the Sync value to 1.
3. In the Project Output Options dialog, under Audio, select Skew. The skew value should be 0.

Preview Options

The Preview Options settings let you build previews to disk, and then play them at full broadcast resolution on the video monitor.

In the Presets dialog, select Preview Options. In the Preview Settings dialog, use the settings shown in the following figure, except as follows:

- ◆ Under Video, set Type to Field 2. Full Size Frame works, but provides rougher motion.
- ◆ Under Audio, set Rate and Format to meet your requirements.



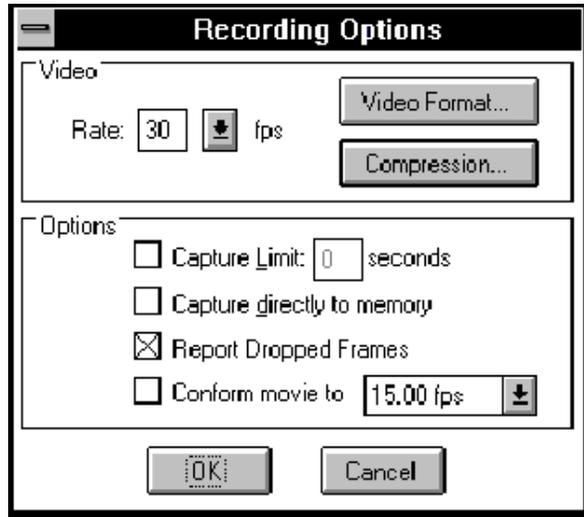
Capture Settings

You can capture video and audio in Premiere LE, or use the StudioZ Central or StudioZ Central Plus capture utility. To capture video and audio in Premiere LE, you must configure capture correctly.

CAUTION AVI files captured in Premiere LE can be used to build movies, but will not play back directly through the StudioZ Central or StudioZ Central Plus playback function. To play back data captured in Premiere LE through StudioZ Central, you must configure Premiere LE to build an AVI file as described in the previous sections. AVI files captured in Premiere LE can be used directly by Windows NT Media Player, or by the playback utility in Premiere LE. For best performance, you must rebuild the AVI file for use by StudioZ Central or StudioZ Central Plus.

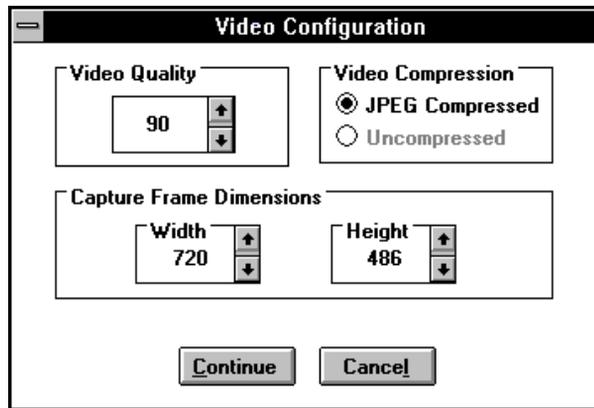
To rebuild the AVI file:

1. From the Premiere LE File menu, select Capture, then select Movie Capture.
2. From the Movie Capture menu, select Preview Rate. In the Preview Rate dialog, set both preview and capture rates to Off.
3. From the Movie Capture menu, select Recording Options. In the Recording Options dialog, use the settings shown in the following figure, except as follows:
 - Under Video, set Rate to 30 fps for NTSC video or 25 fps for PAL video.
 - Under Options, select Capture Limit and set a time for capture if desired.
 - Under Options, select Report Dropped Frames if desired.



CAUTION Do not select Capture directly to memory or Conform movie to.

- In the Recording Options dialog, select Video Format. In the Video Configuration dialog, use the settings shown in the following figure for a Studio Z workstation.



- Set Video Quality to the value you want; remember that higher video image quality requires higher data rates. At higher settings, frames may be dropped on certain input data. If this happens, recapture the video with a lower quality setting.
- In the Recording Options dialog, select Compression. In the Video Compression dialog, set Compressor to No Recompression.

NOTE This dialog does not control data captured to disk, but rather data displayed in the capture preview window in Premiere LE.

Adobe Premiere 5.0

Currently, Adobe Premiere version 5.0, is not supported on the StudioZ product line.

in:sync SPEED RAZOR

If you build AVI files using in:sync SPEED RAZOR, you may encounter problems in files with 240 or more frames. At or near frame 240, the AVI file may start displaying doubled images, skipped frames, or out-of-order frames. If this occurs, do the following:

1. Under the SPEED RAZOR Project menu, select Editing Settings.
2. Set the frame rate for the AVI output to 29.9706 fps instead of 30 fps.
3. Rebuild the AVI file.

NOTE Currently, in:sync SPEED RAZOR Mach 4.0 is not supported on the StudioZ product line.

InterSite Products

The StudioZ for SOFTIMAGE|DS, StudioZ Pro, and StudioZ T-RAX workstations ship with the following InterSite products:

- ◆ Diskeeper Lite (run this defragmentation tool periodically to improve disk performance)
- ◆ InterSite Manager (IM)
- ◆ Desktop Management Interface (DMI) Console
- ◆ Welcome
- ◆ Version Manager
- ◆ Watchdog

Sound Forge

Importing StudioZ AVI Files into Sound Forge 4.0

To set up Sound Forge 4.0 to import a StudioZ AVI file:

1. From the Options menu, click Preferences.
2. In the Preferences dialog, click Performance (tab).
3. Under Video Decompression Mode, click Full Decompress Always; then click OK.

Reblocking StudioZ AVI Files Edited in Sound Forge 4.0

The AVI file format is typically written to maximize data transfer — a process known as “blocking.” Sound Forge 4.0 can successfully read a StudioZ AVI file; however, when that file is saved, it is not blocked in a way that the StudioZ Central or StudioZ Central Plus playback function can read. The quickest way to work around this problem is to use Adobe Premiere or in:sync Speed Razor to reblock the file into StudioZ format. The following example shows how to use Adobe Premiere to reblock a StudioZ AVI file.

To reblock a StudioZ AVI file edited in Sound Forge 4.0 (using Adobe Premiere):

1. In Sound Forge, save the edited StudioZ AVI as a separate WAV.
2. Exit Sound Forge without saving the AVI.
3. In Adobe Premiere, import the AVI, and the WAV saved from Sound Forge.
4. Drag the AVI file into the Construction Window.
5. Delete the existing audio track from the AVI.
6. Drag the WAV saved from Sound Forge into the Construction Window audio track. Make sure you line up the starting points of the audio track and the video track precisely.
7. Build a new movie from the Construction Window using the proper StudioZ presets. You can now play the newly constructed AVI file using the StudioZ Central Plus playback utilities.

NOTE See the *StudioZ Central Plus Quick-Start Guide* and the *StudioZ Central Plus Online Reference Guide* for more information on capturing and playing back video.

NOTE For more information on Adobe Premiere or in:sync Speed Razor, refer to the documentation delivered with those applications.

StudioZ Central Plus

All StudioZ workstations are shipped with the StudioZ Central Plus application; see the online Help or reference manual delivered with the application more information. StudioZ Console users who have a maintenance agreement, or whose workstations are under warranty, are entitled to a free upgrade to StudioZ Central Plus. Call the Customer Response Center (1-800-633-7248) for your free upgrade.

