GRANDE VITESSE SYSTEMS

Operation Guide

Includes Remote Control, Management, and Setup Information

gvs

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GVS9000 VTR Operation Guide

In this guide, we will go over remote connection interface, walk through capture process, and steps for shutdown process of GVS90002XU VTR. This document provides minimum information required to startup all VTR units and prepare for operation. For detail management please refer to each particular product User Guide.

SECTION A: GVS9000 VTR REMOTE MANAGEMENT USING VNC

1. Start Windows management notebook.

2. Download VNC Viewer then open VNC Viewer:

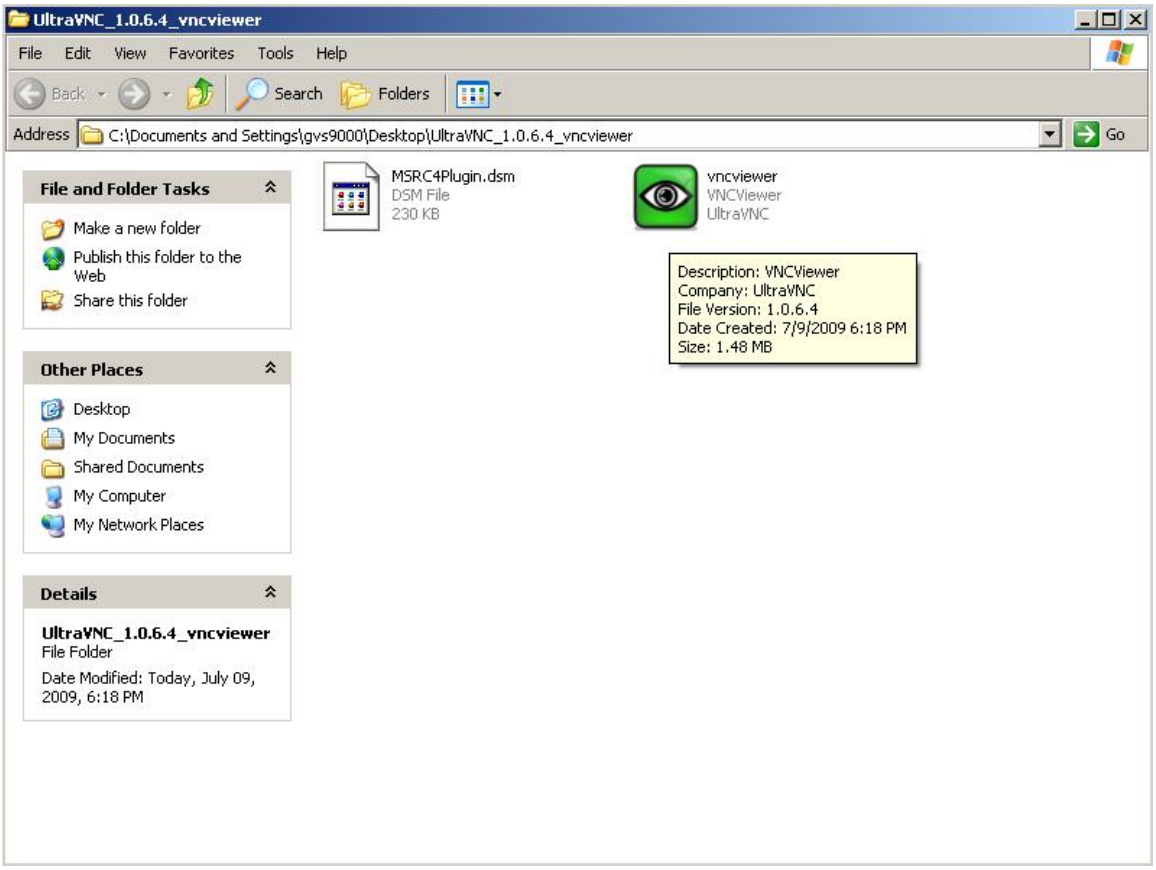

Figure 1: Opening VNC Viewer.

3. Enter the IP Address of GVS9000 VTR, select LAN under Quick Options then select Connect:

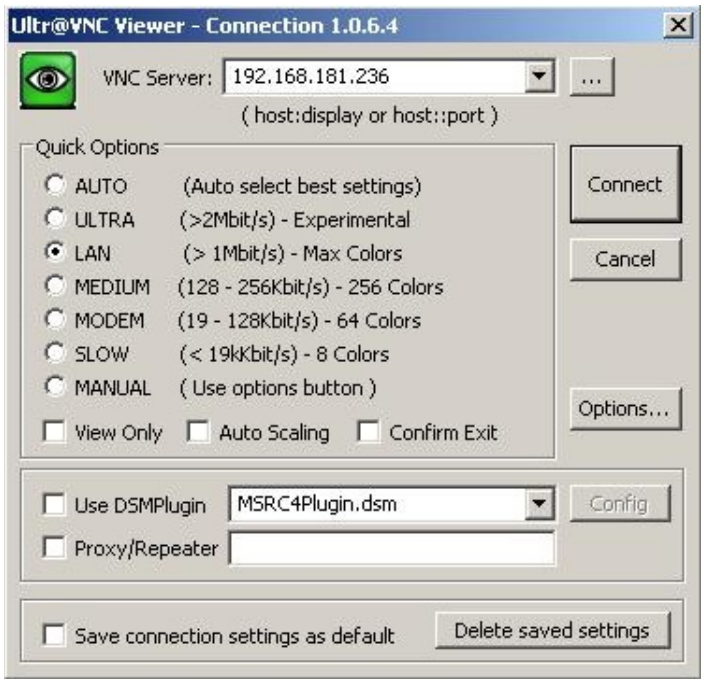

Figure 2: Enter GVS9000 2XU VTR address and select Quick Options.

4. At the login window, enter VNC password provide with your GVS9000 VTR then select Log On:

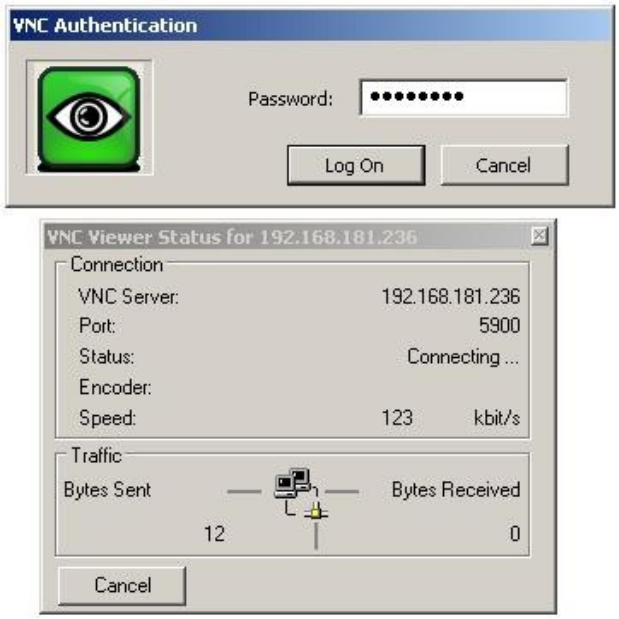

Figure 3: Enter password at login window.

5. Once you see the main GVS9000 2XU VTR window then you have connected successfully:

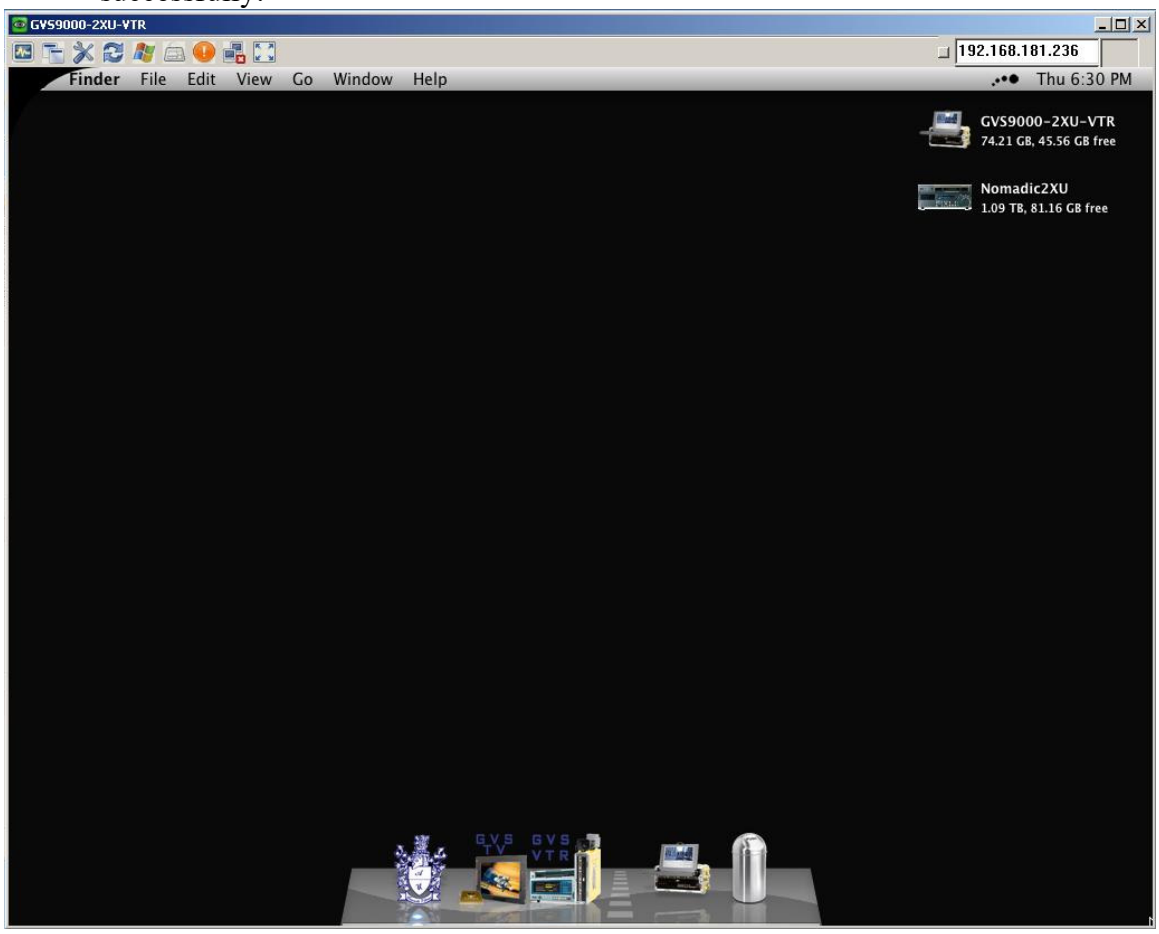

Figure 4: GVS9000 2XU VTR main window.

SECTION B: GVS CONTROL PANEL

Verify all VTR hardware settings before starting any capture process:

1. From bottom menu bar select 2XU Utilities then click on “GVS Control Panel” button to open VTR Control Panel:

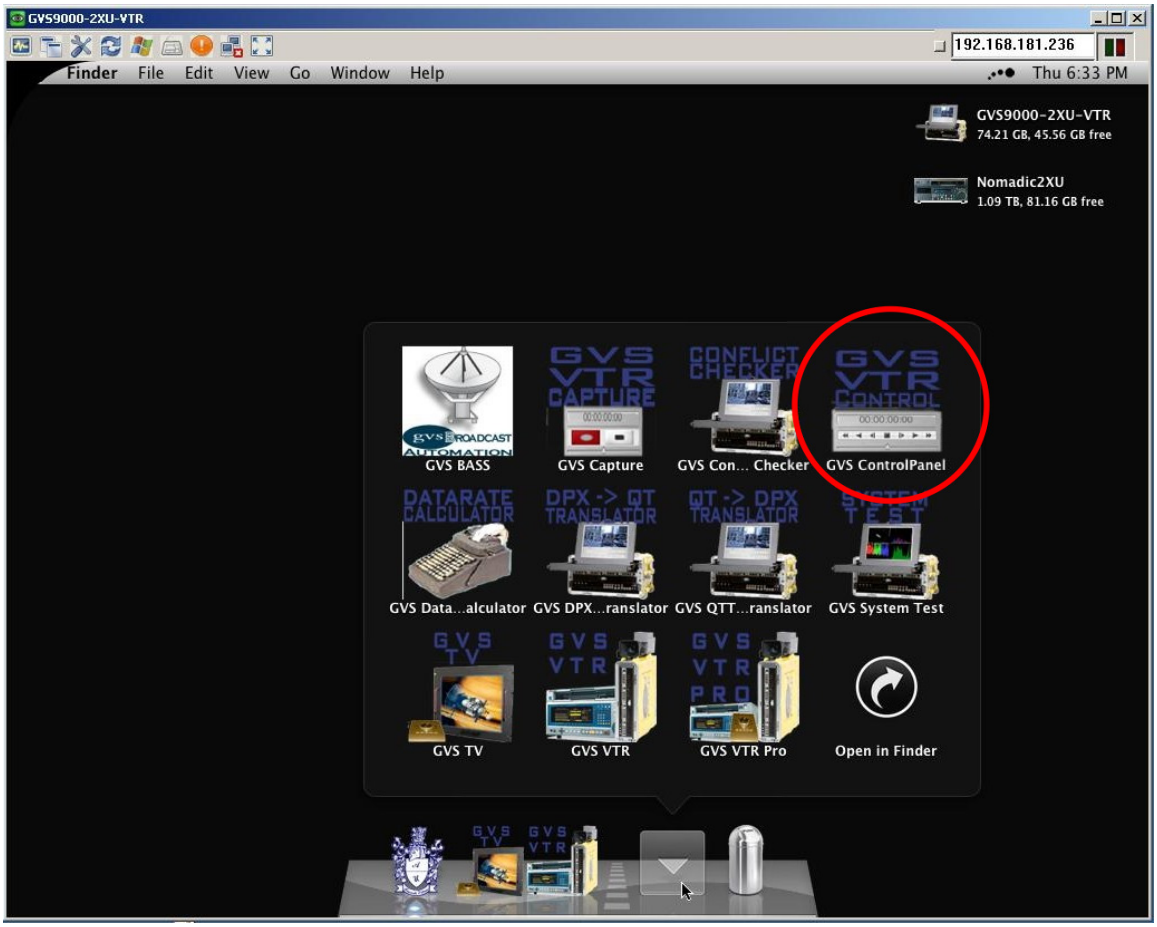

Figure 5: GVS Control Panel button inside 2XU Utilities.

2. On the Inputs screen you can view the currently selected video and audio input sources and map audio sources to the channels supported by 2XU VTR.

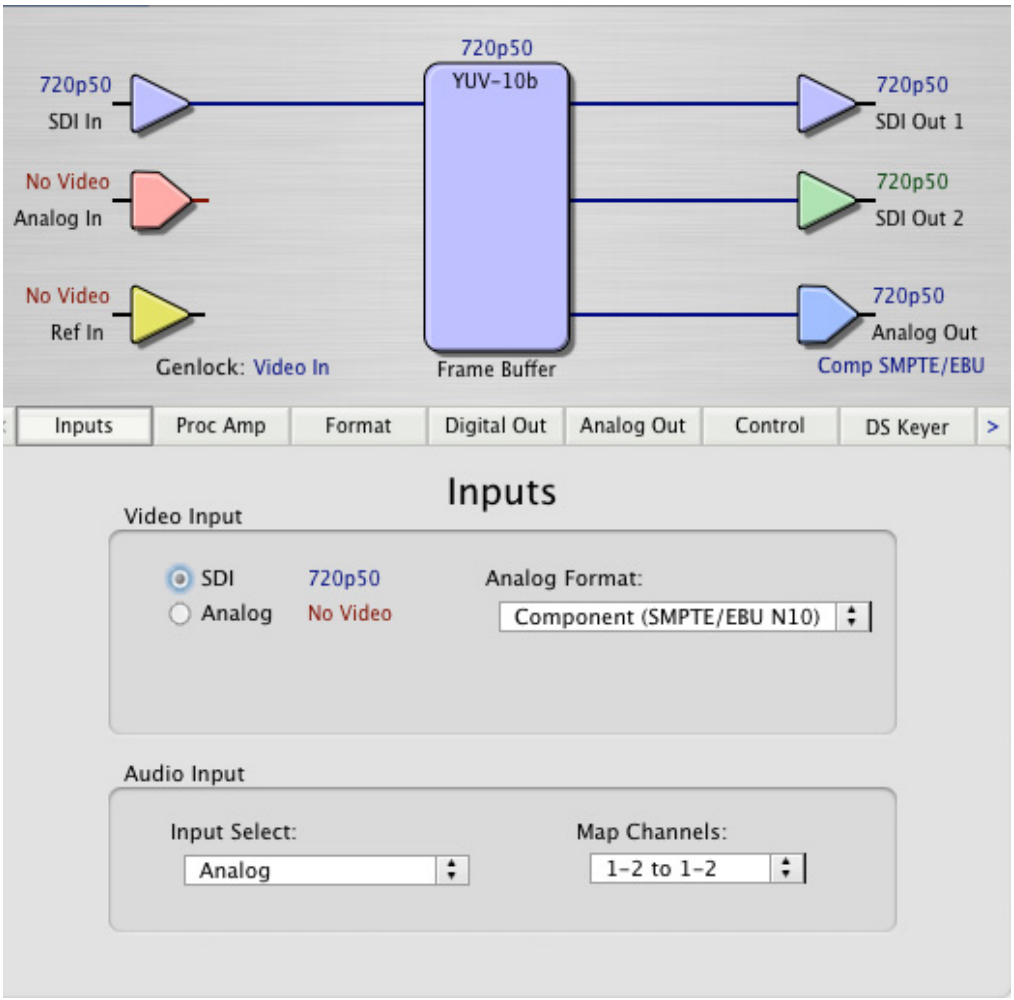

Figure 6: GVS Control Panel SDI Input tab.

3. Following Proc Amp screen settings affect the analog proc amplifier built into the GVS9000 VTR hardware.

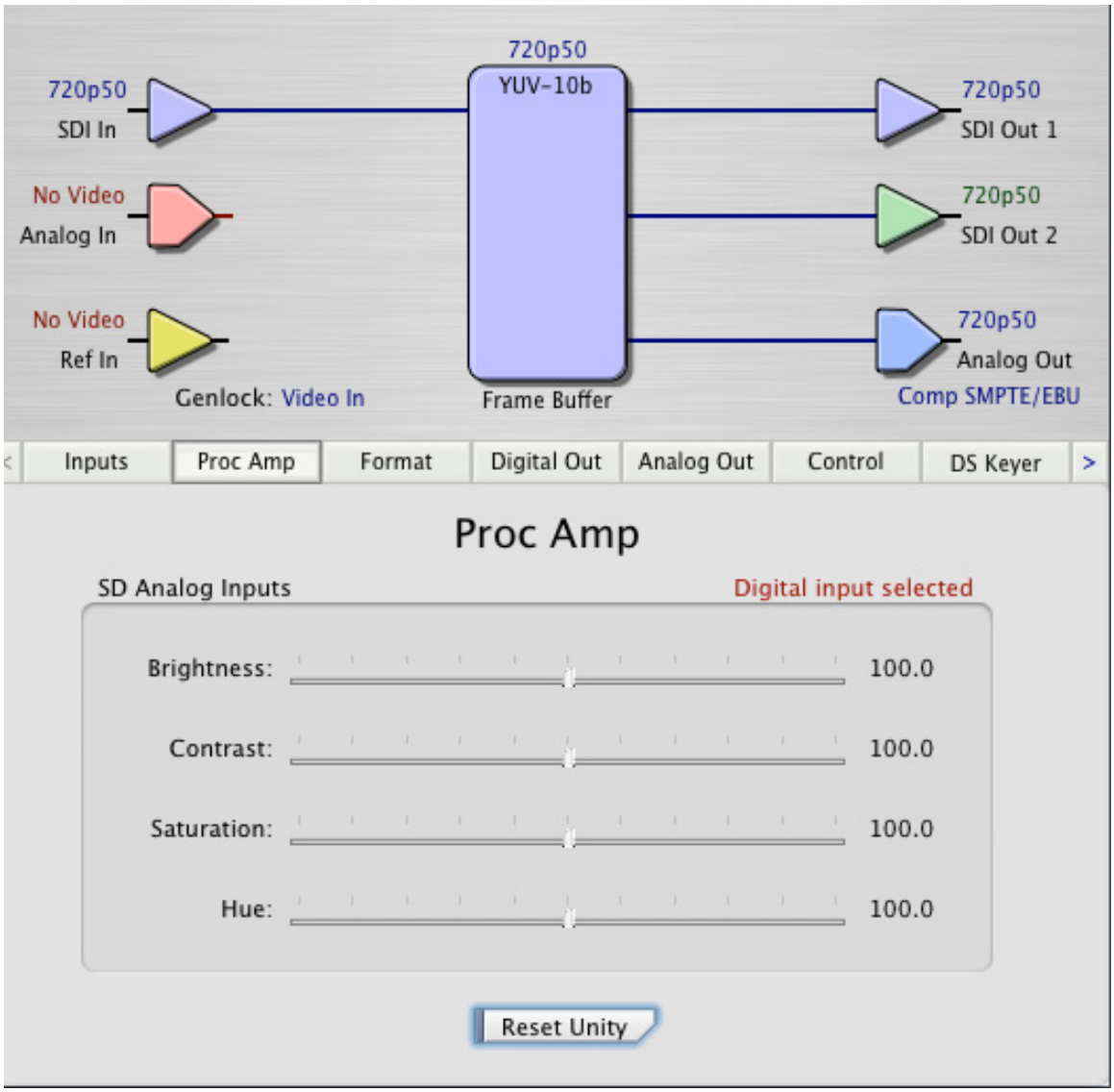

Figure 7: GVS Control Panel Proc Amp tab.

4. Following Formats screen shows the video format currently in use by the 2XU VTR framebuffer (called the Primary Format) and allows you to change it.

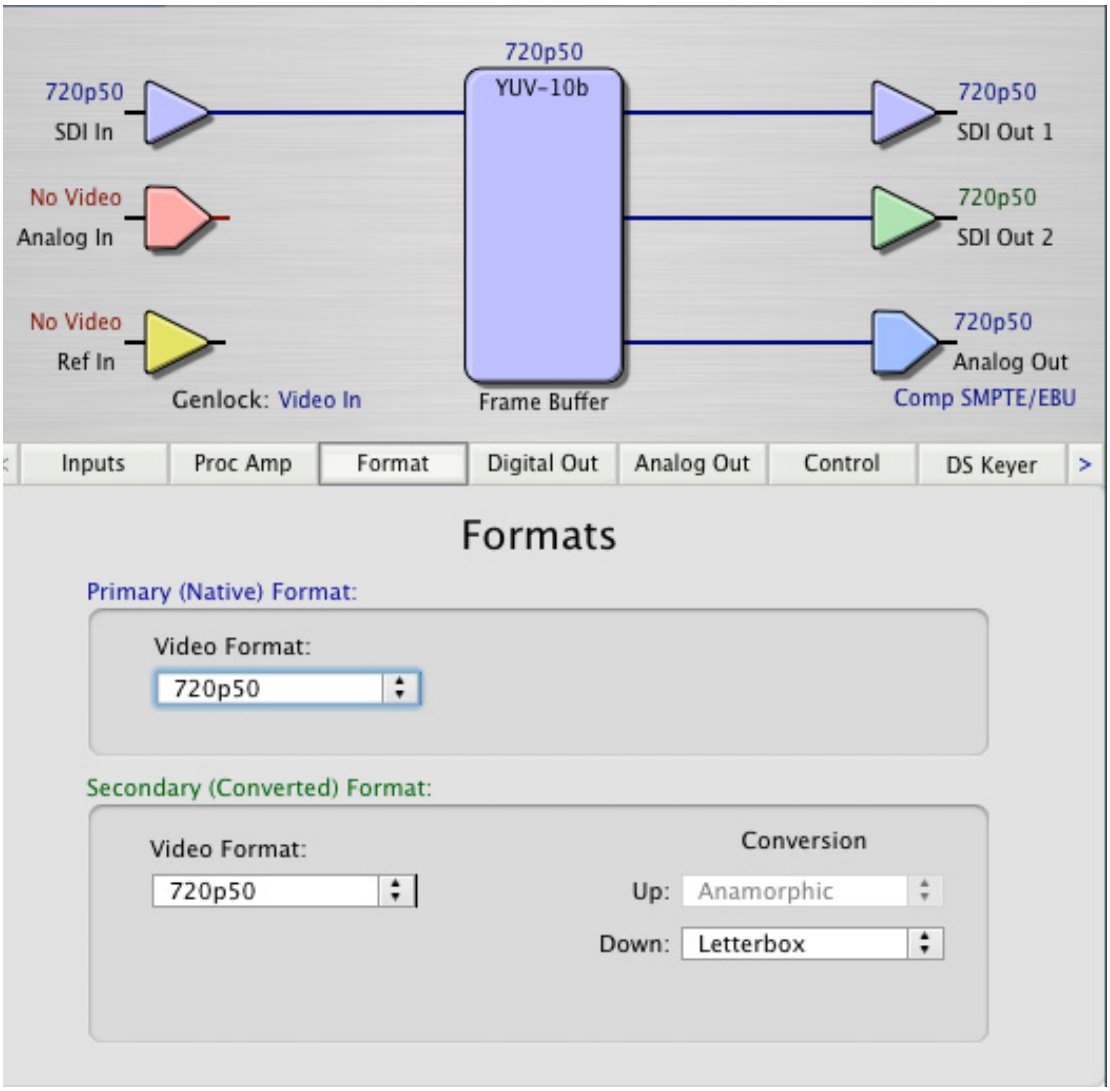

Figure 8: GVS Control Panel Formats tab.

5. The Digital Out screen shows the current settings for both the SDI outputs. If an input/output has no video, it will be indicated on the block diagram (“No Video”).

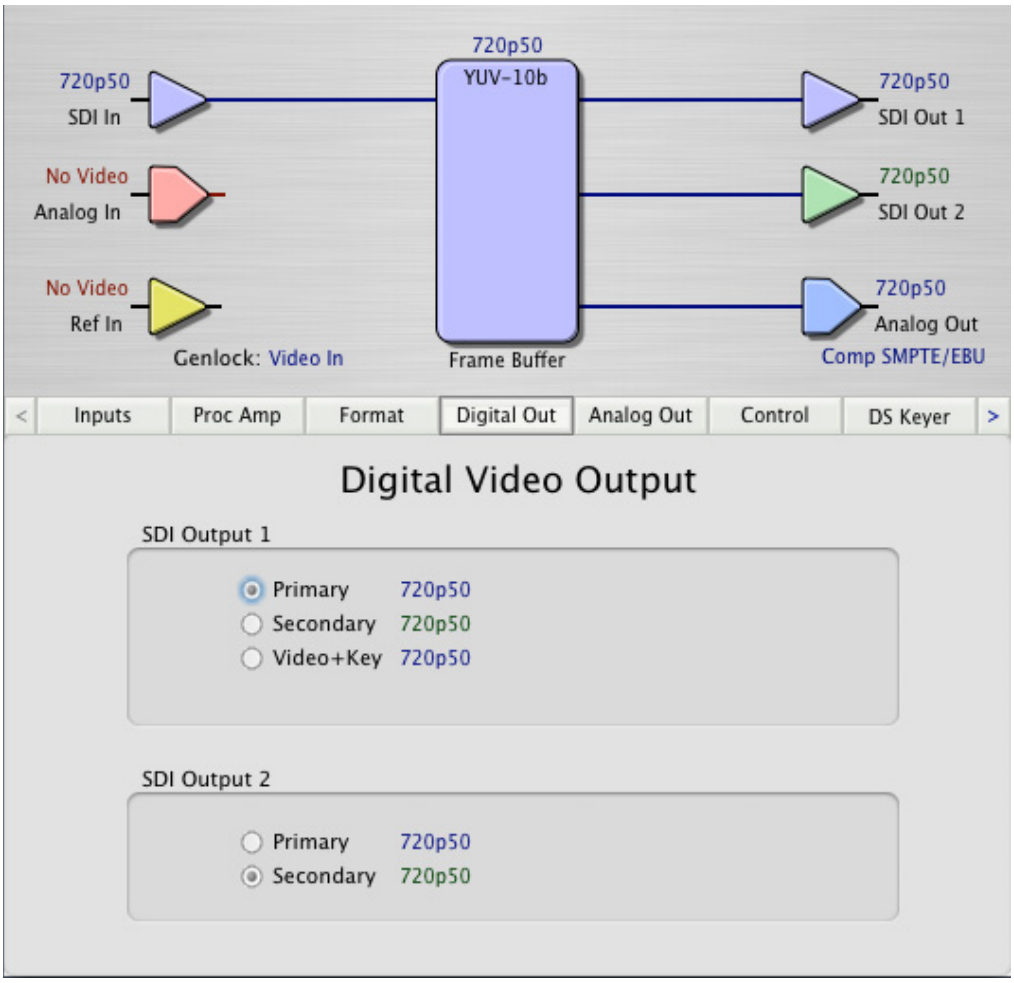

Figure 9: GVS Control Panel Digital Out tab.

If there is a down conversion taking place then you will see following icon in this tab:

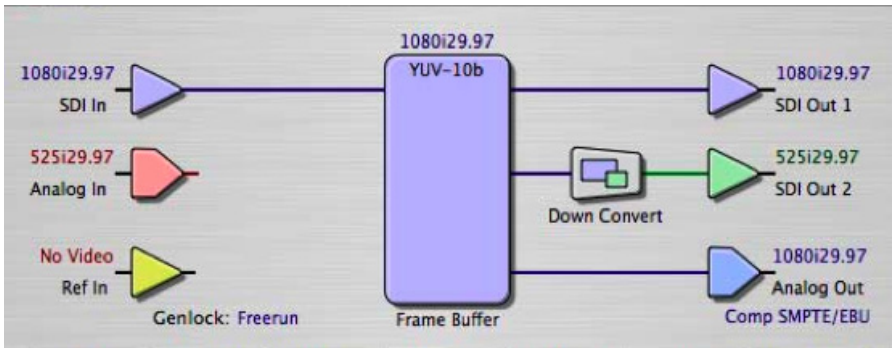

Figure 10: GVS Control Panel Down Convert.

6. GVS9000 2XU VTR provides a high-quality analog component or composite output, generally used for monitoring. This screen shows the current settings for that analog output, and allows you to re-configure it when desired.

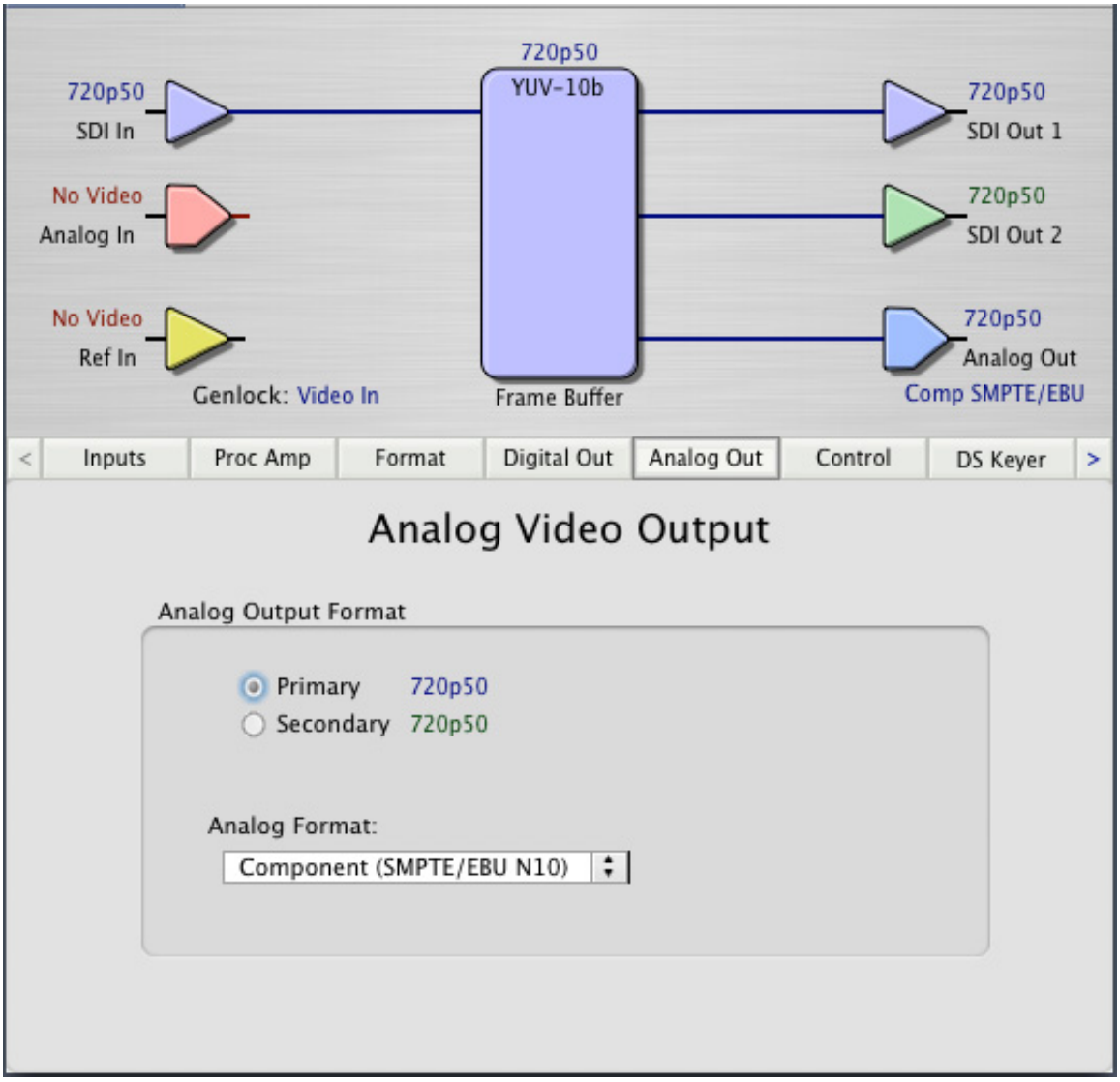

Figure 11: GVS Control Panel Analog tab.

7. The Control Screen is where you select how the GVS9000 2XU VTR directs video and is used by various packages. This screen also provides control for configuring output timing with regard to external reference video and horizontal/vertical delay.

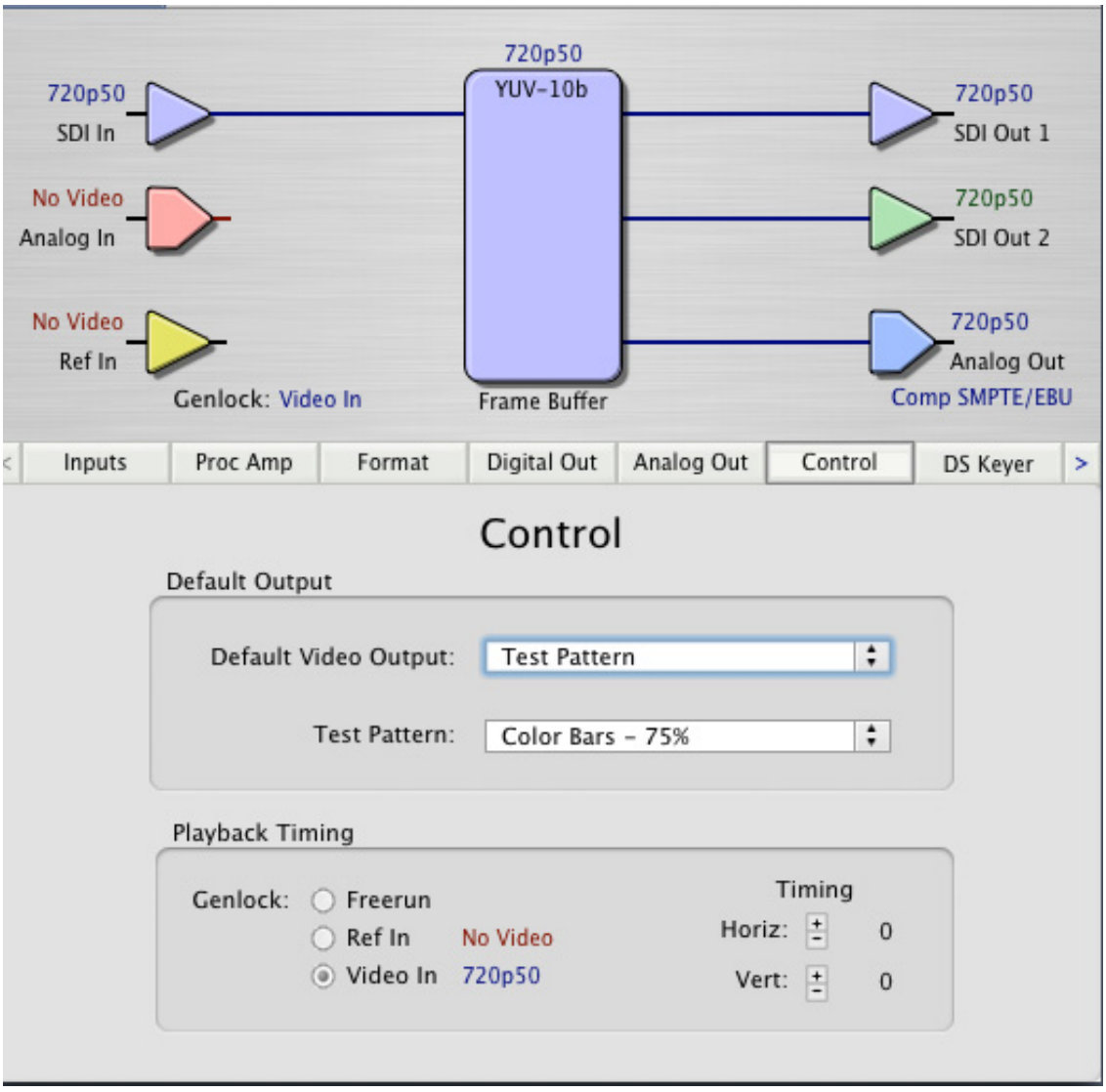

Figure 12: GVS Control Panel Control tab.

8. The GVS9000 2XU VTR has a hardware-based downstream keyer that is ideal for putting logos, “bugs” or other video material on top of video being played out or printed to tape. A typical application would be putting a television station’s call letters or channel over program video content. Keyed video is from the 2XU’s internal Frame Buffer (from storage, video In, 2XU-TV, etc.). Putting QuickTime video with key over the input video or a matte can only be done in Standard Definition video.

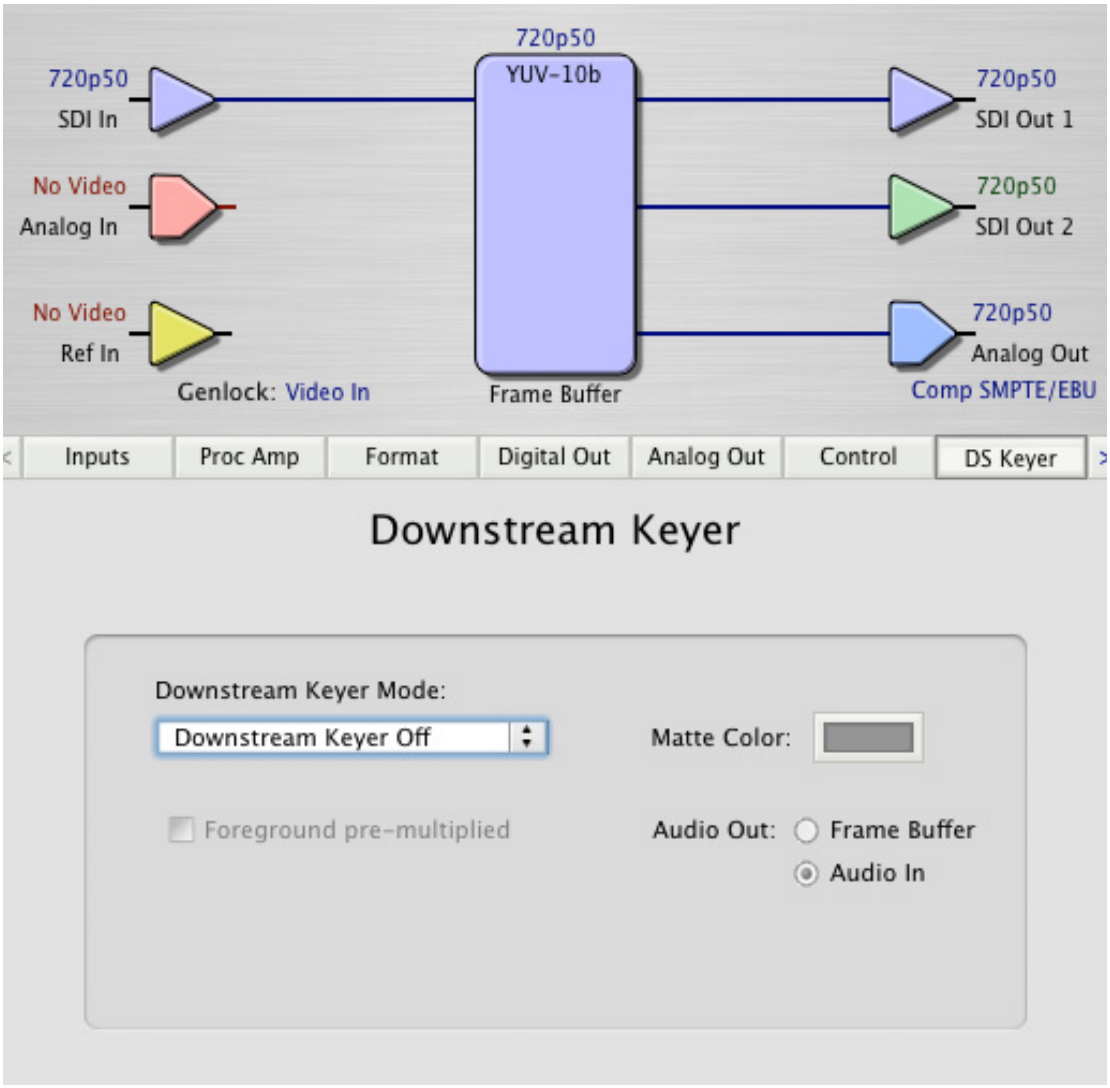

Figure 13: GVS Control Panel Downstream Keyer.

9. GVS9000 2XU VTR provides a high-quality analog component or composite output, generally used for monitoring. This screen shows the current settings for that analog output, and allows you to re-configure it when desired.

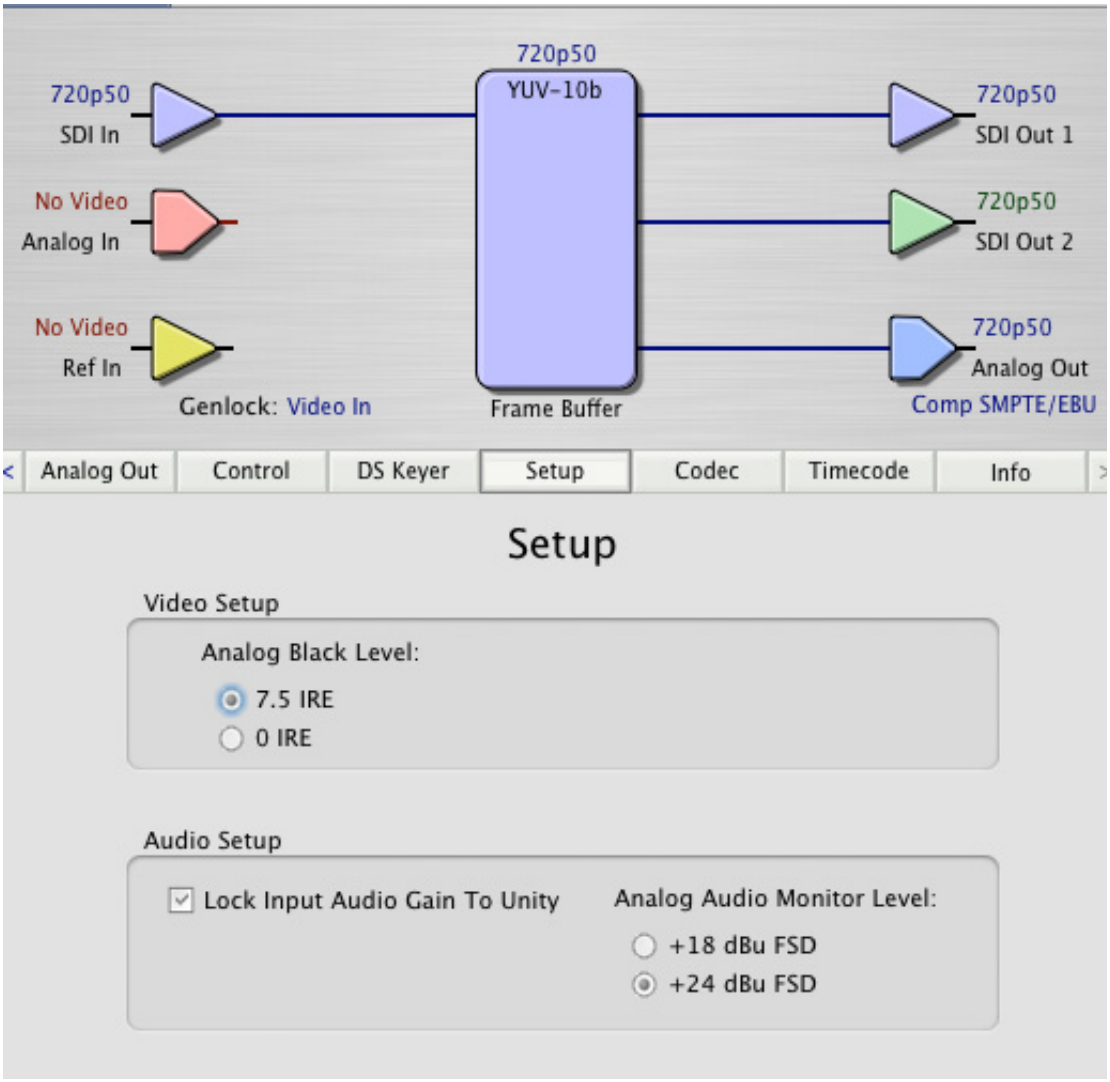

Figure 14: GVS Control Panel Setup tab.

10. This screen offers a variety of controls that determine how the card behaves under Final Cut Pro.

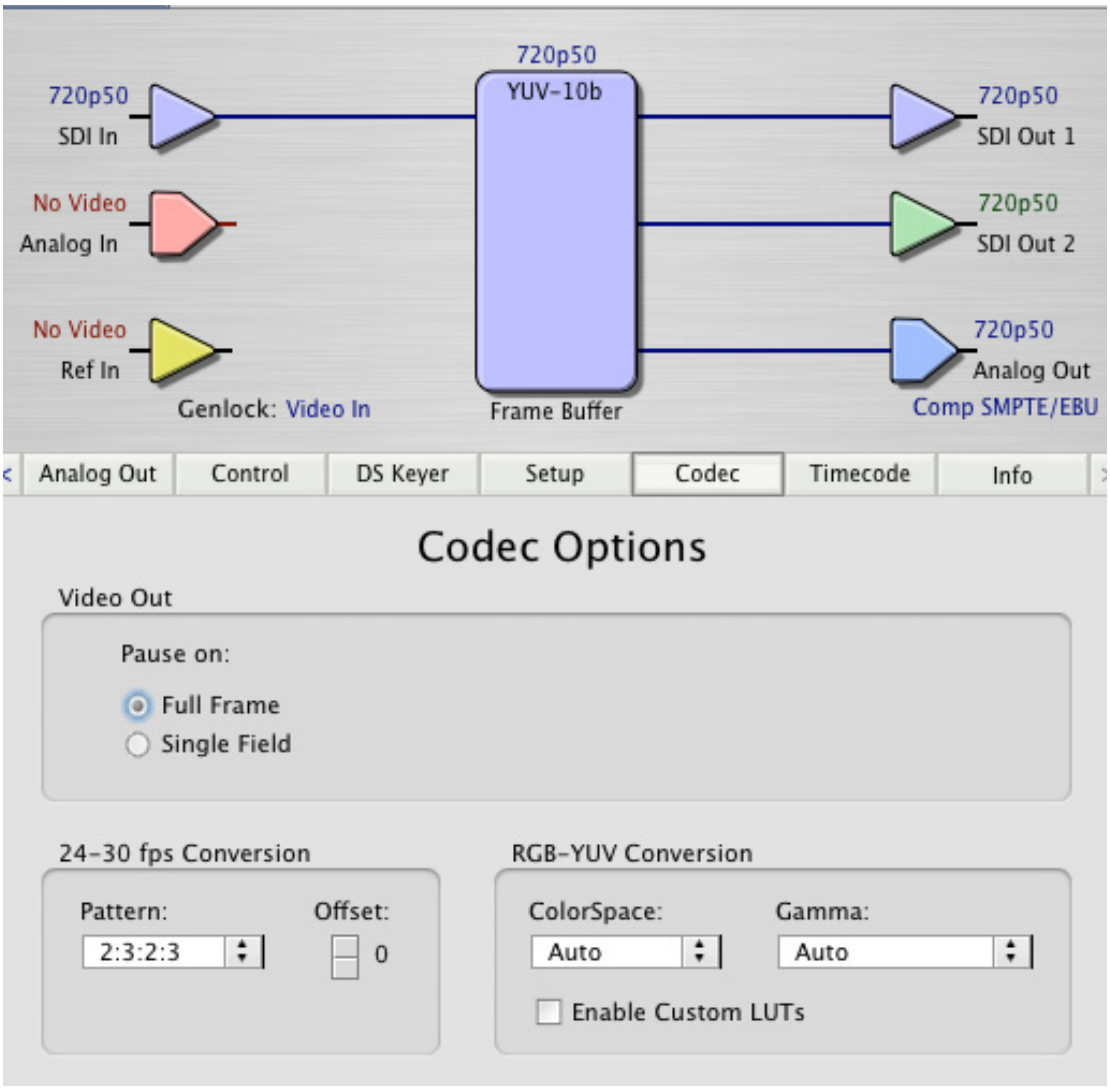

Figure 15: GVS Control Panel Codec Options tab.

11. The timecode is used for both monitoring the RP-188 timecode embedded in the digital data stream and for selecting a timecode offset (if required) for the attached VTR (connected to GVS9000 2XU's RS-422 port)—and sent during assemble-edit mode.

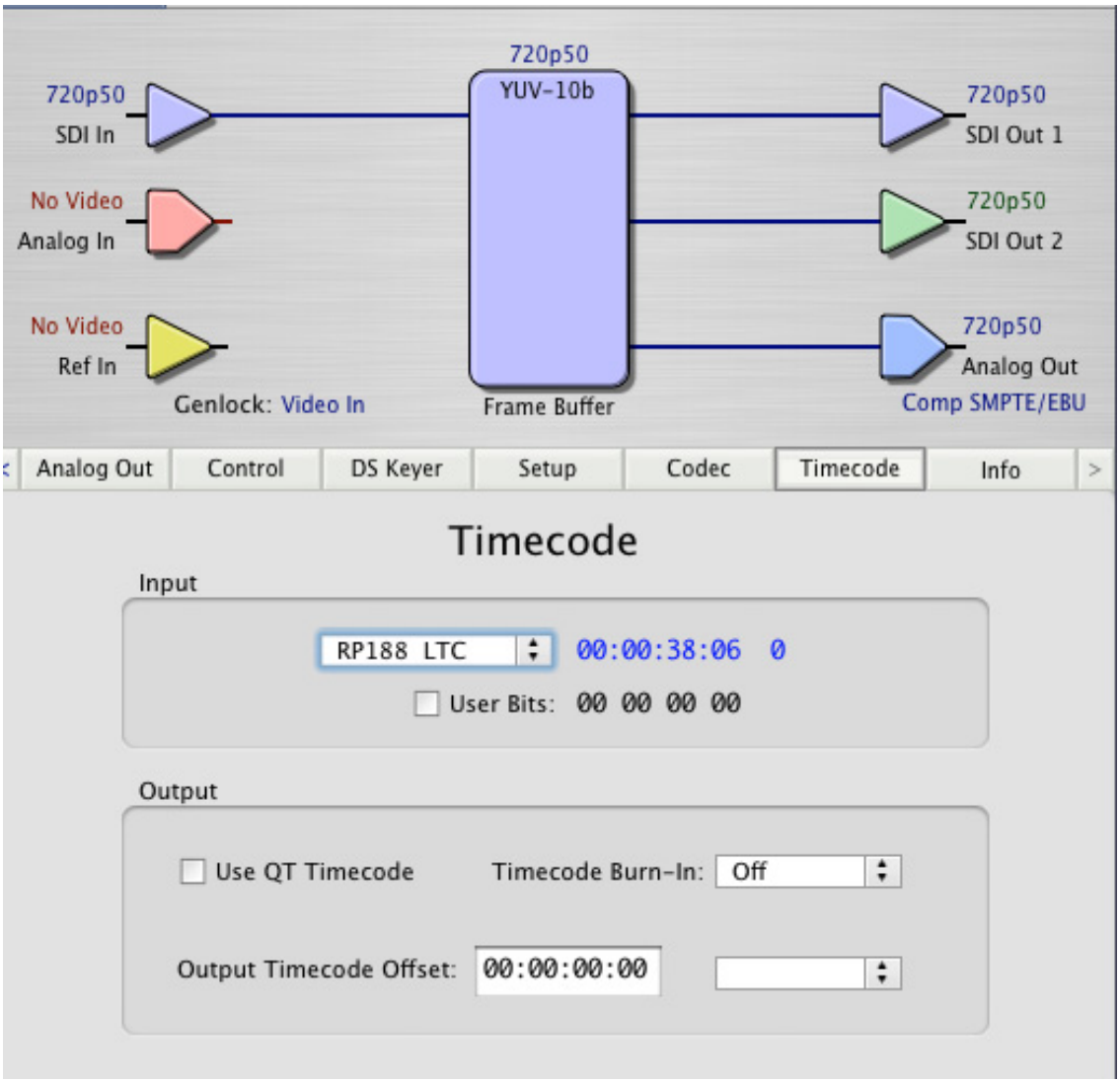

Figure 16: GVS Control Panel Timecode tab.

12. This Tabbed screen shows the GVS9000 2XU software files that have been installed on this VTR. This information may be needed if you talk to a GVS support representative to determine if files are missing or need updating.

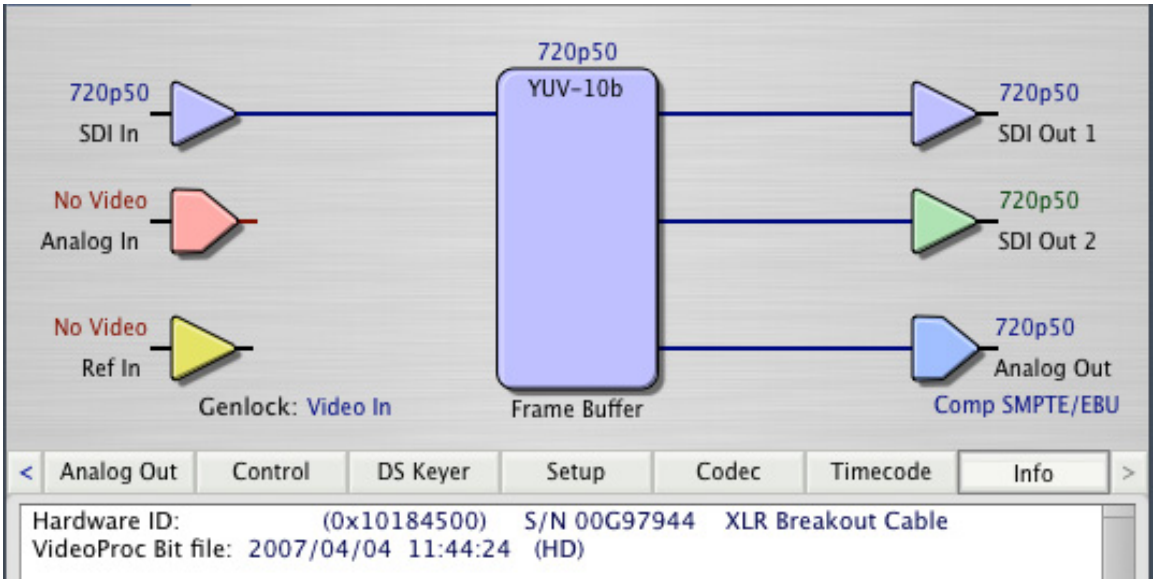

Figure 17: GVS Control Panel Info tab.

SECTION C: GVS VTR

Use GVS9000 2XU VTR package for basic capture processes (For more elaborate capture process use “GVS Capture” option):

1. From bottom menu bar select “GVS VTR” to open:

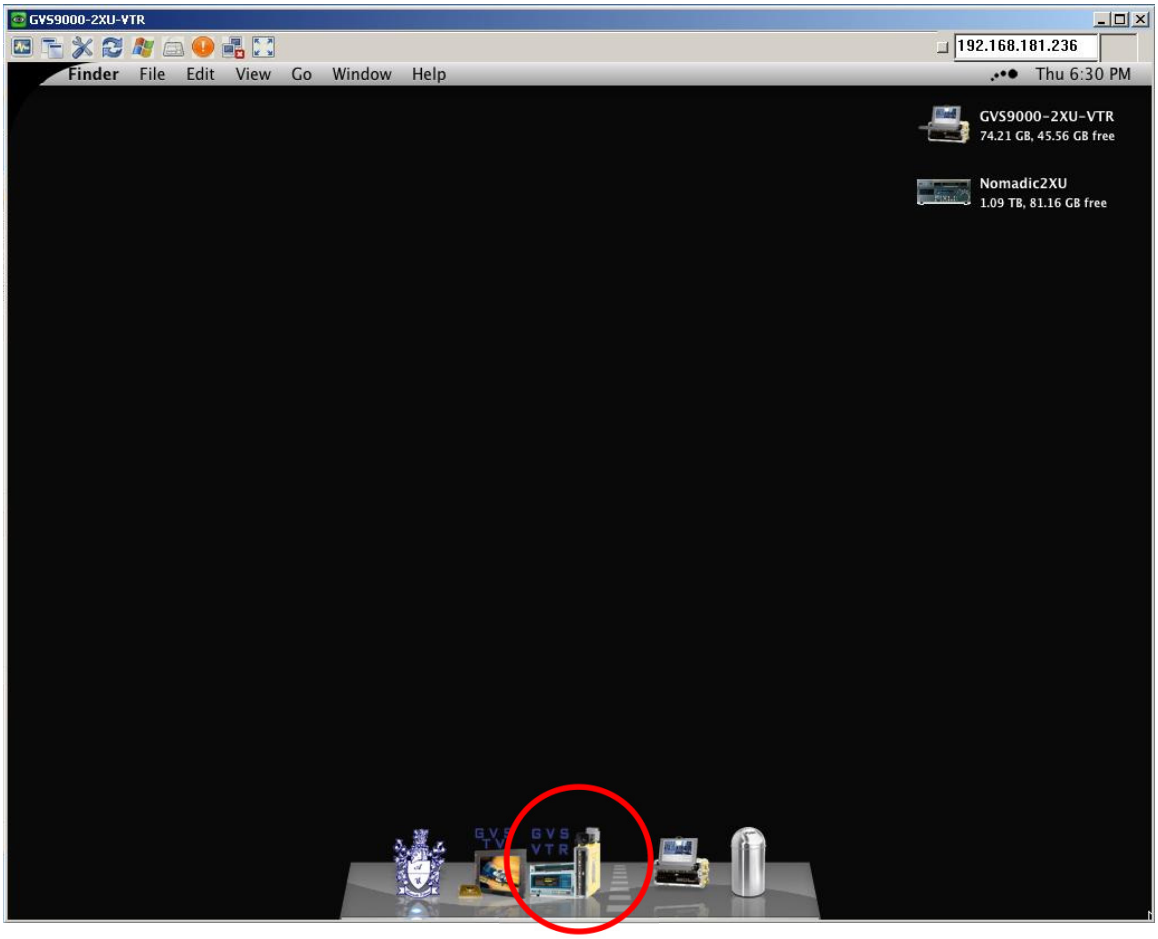

Figure 18: GVS VTR button

2. If GVS VTR is not available in bottom menu bar then select “GVS VTR” from 2XU Utilities menu:

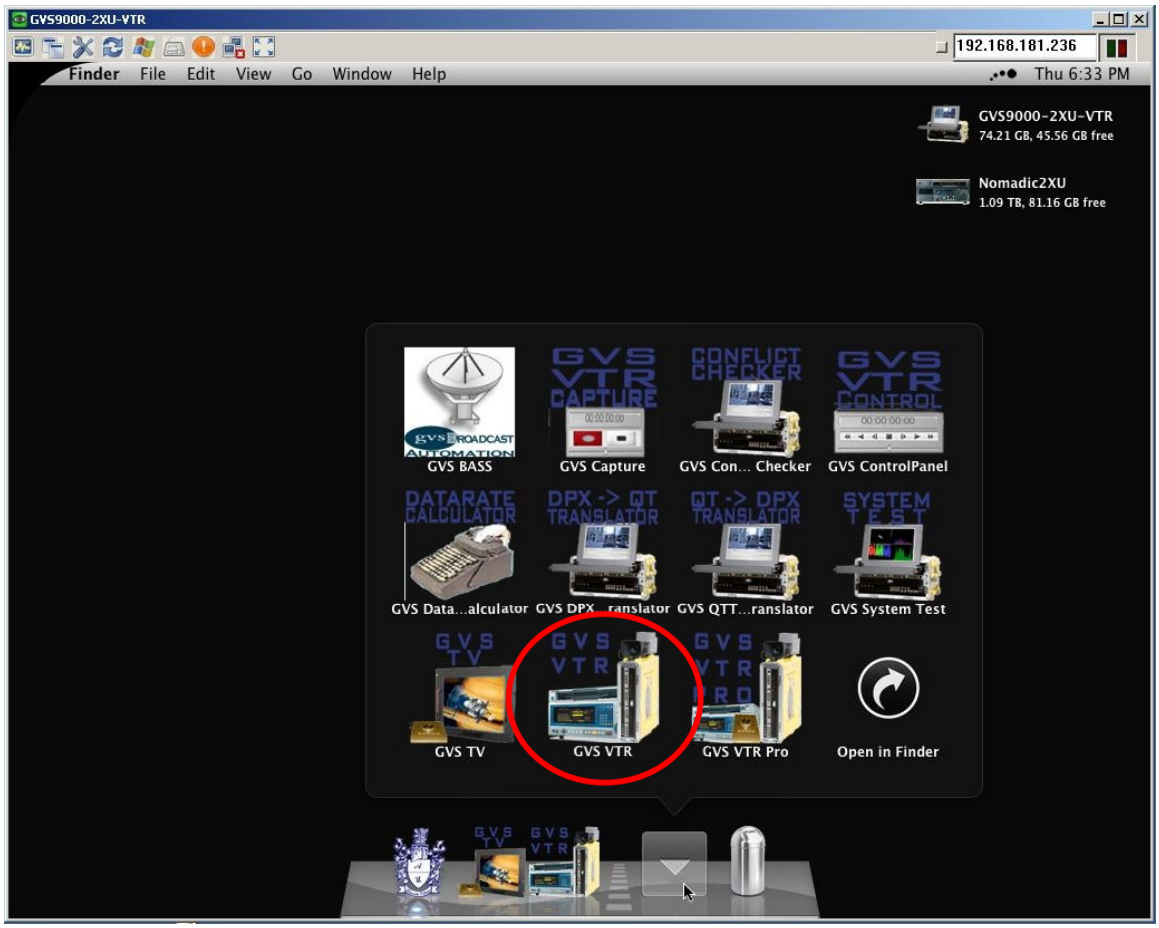

Figure 19: Selecting GVS VTR from 2XU Utilities

3. From top menu bar, select GVS VTR then click on Preferences or use keyboard shortcut "⌘," or "  ," to open GVS VTR Preferences:

4. Verify "Captured Clips Folder" entry to make sure it points out to correct volume and directory:

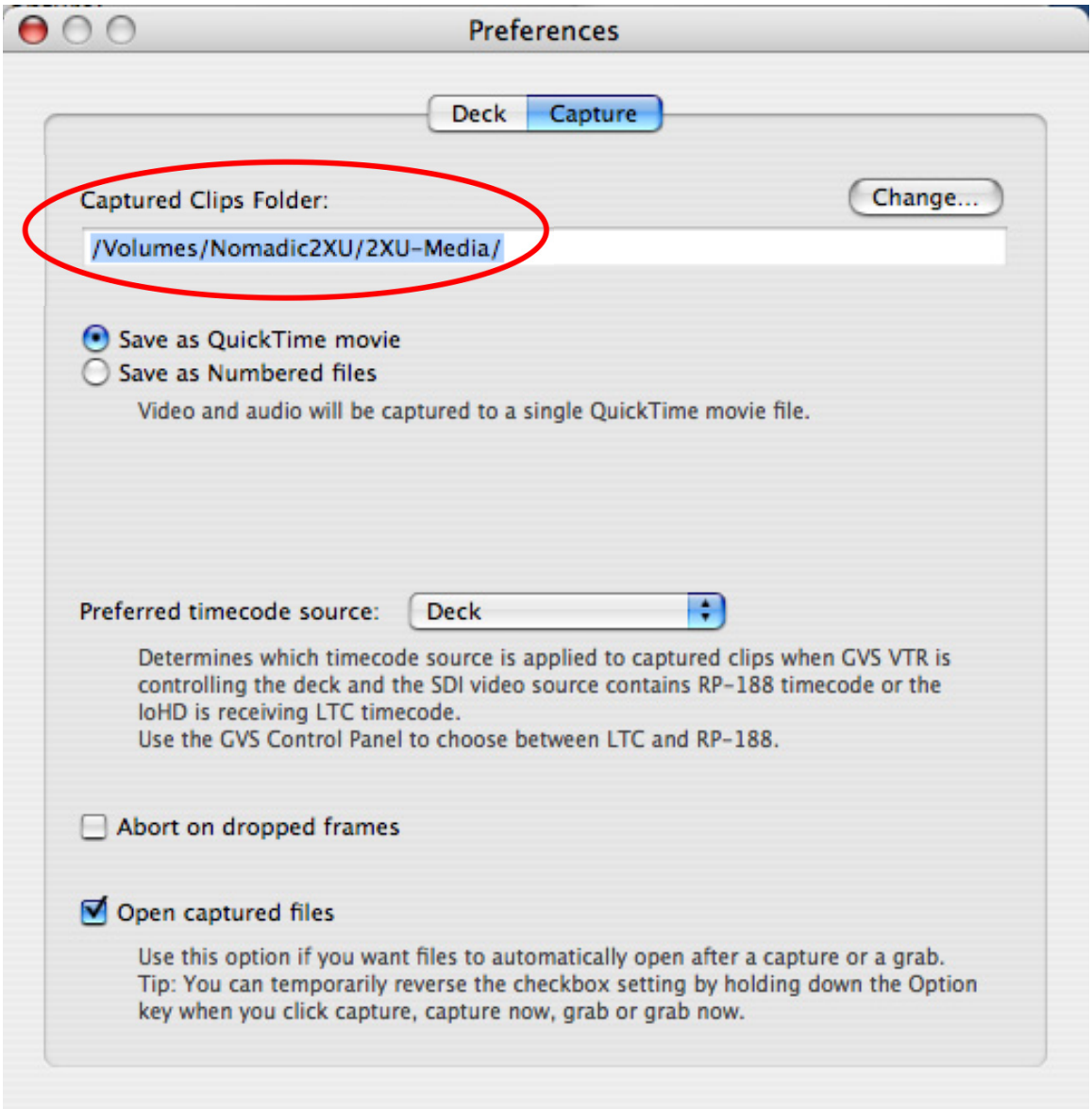

Figure 20: GVS VTR Preferences window

5. To modify “Captured Clips Folder” click “Change”:

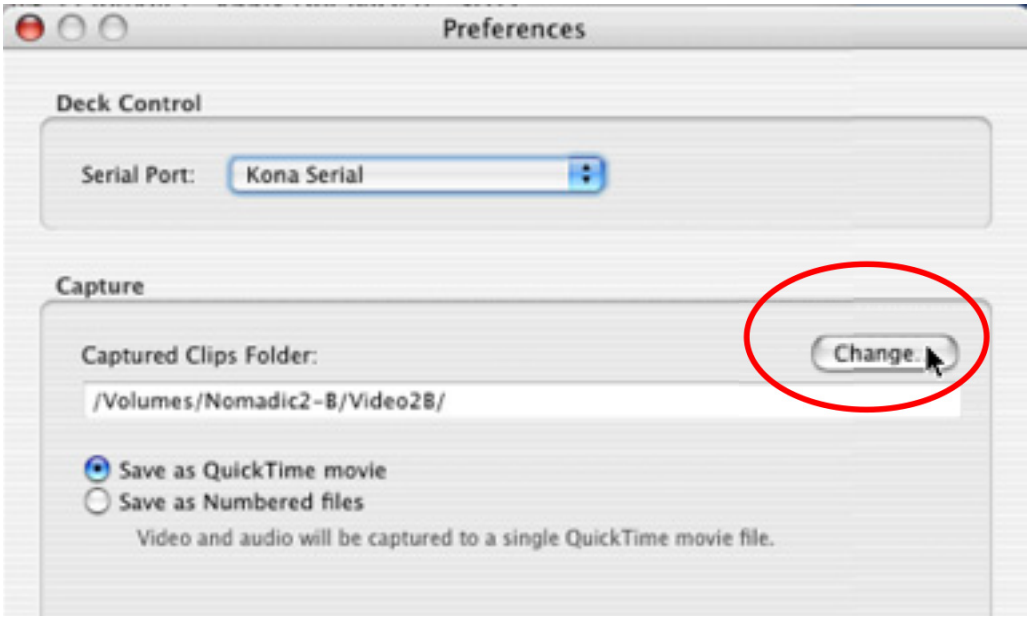

Figure 21: GVS VTR Captured Clips Folder change

6. Select “Nomadic” volume from the left column:

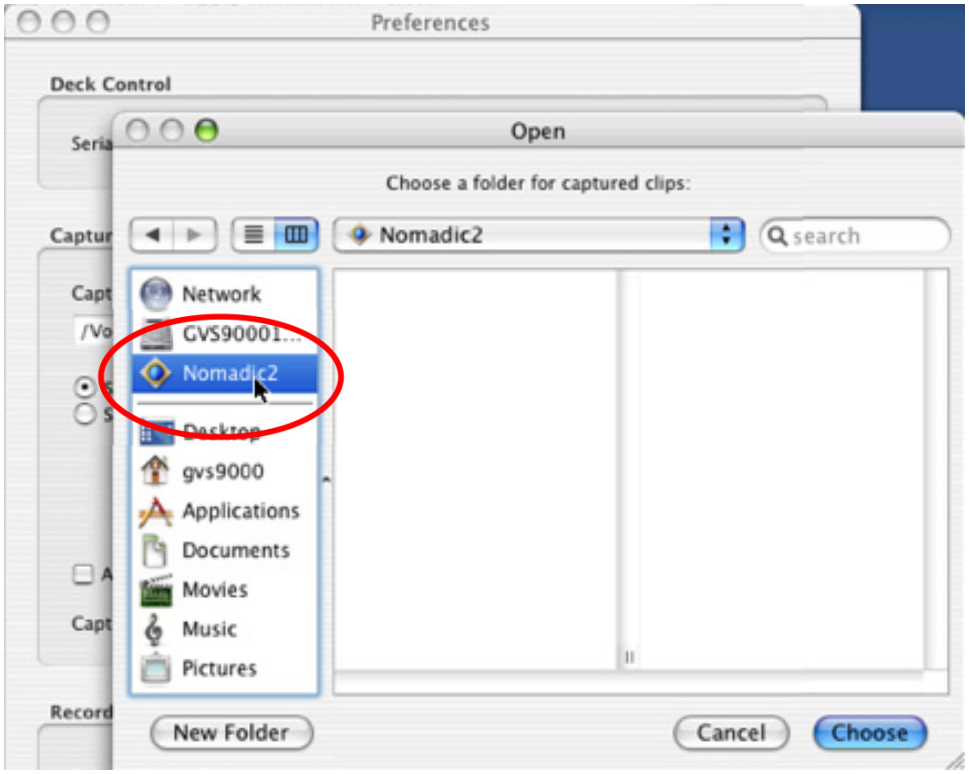

Figure 22: GVS VTR Captured Clips Volume selection

7. Click “New Folder” to create a new folder inside “Nomadic” volume:

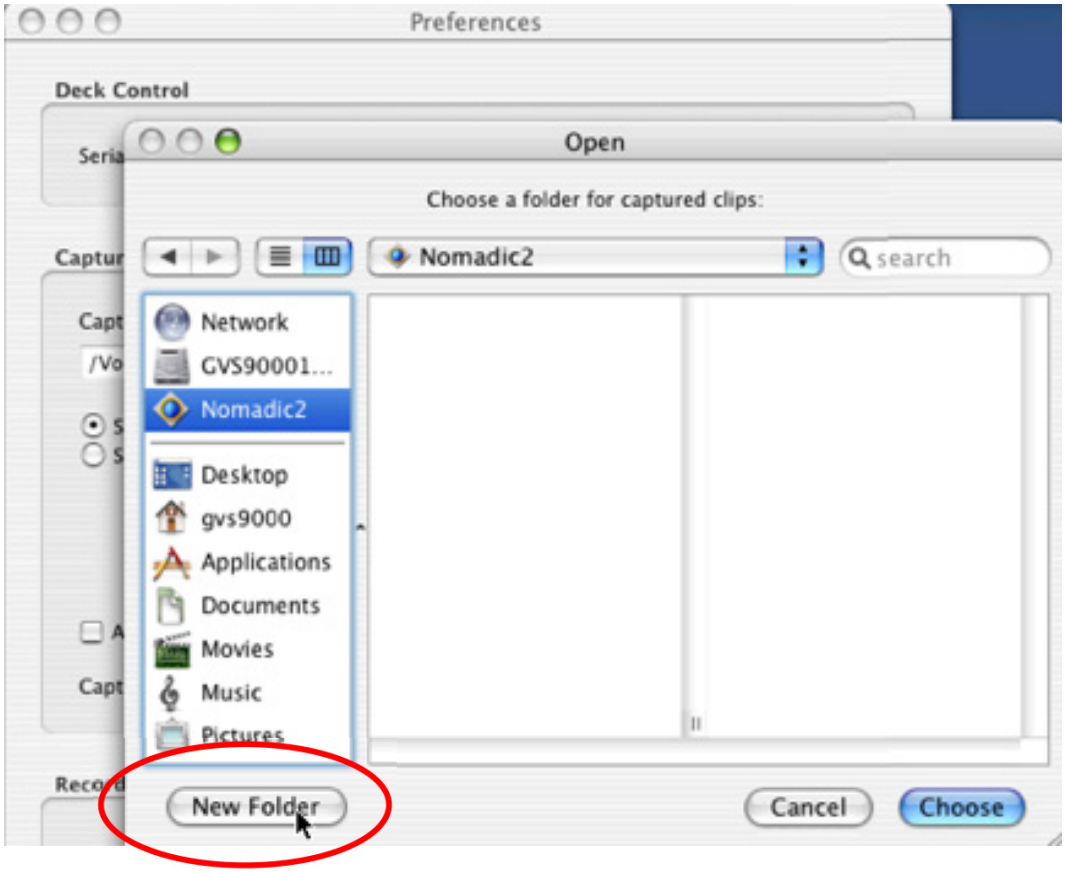

Figure 23: GVS VTR Create New Folder for Captured Clips Folder

8. Enter directory name corresponding to clips, camera, and session appended with date then click “Create”:

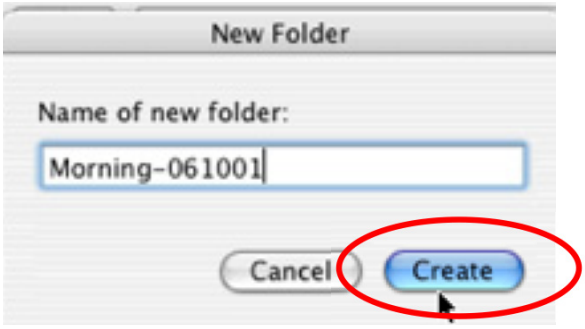

Figure 24: GVS VTR Captured Clips Folder name

9. Verify folder name to make sure its correct then click “Choose”:

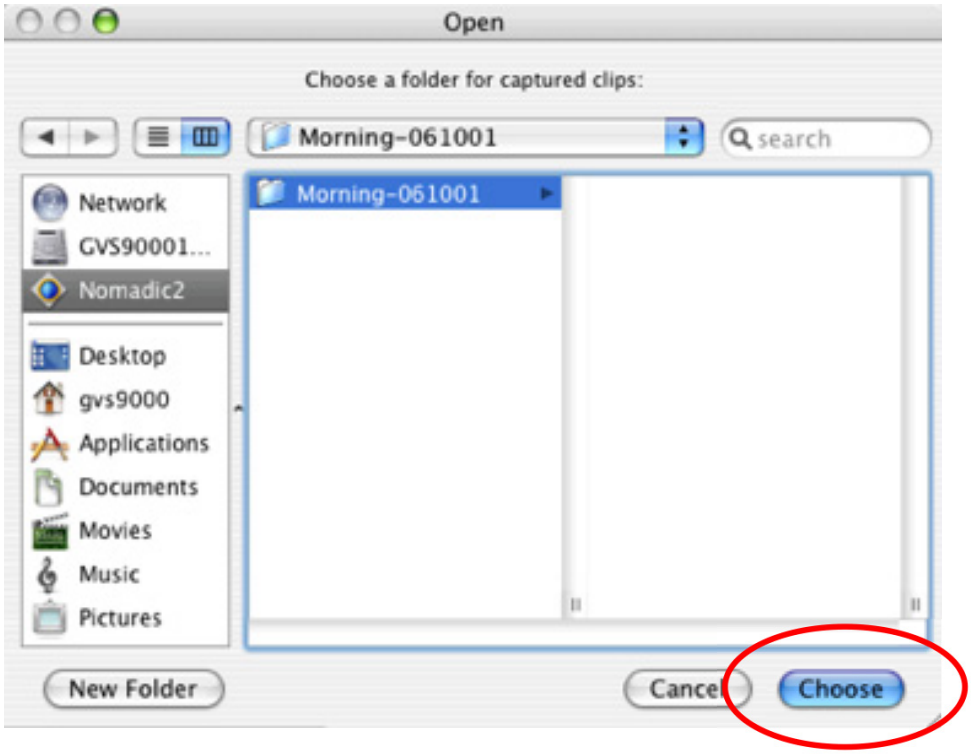

Figure 25: GVS VTR Choose Captured Clips Folder

10. Now close Preferences window to start capturing:

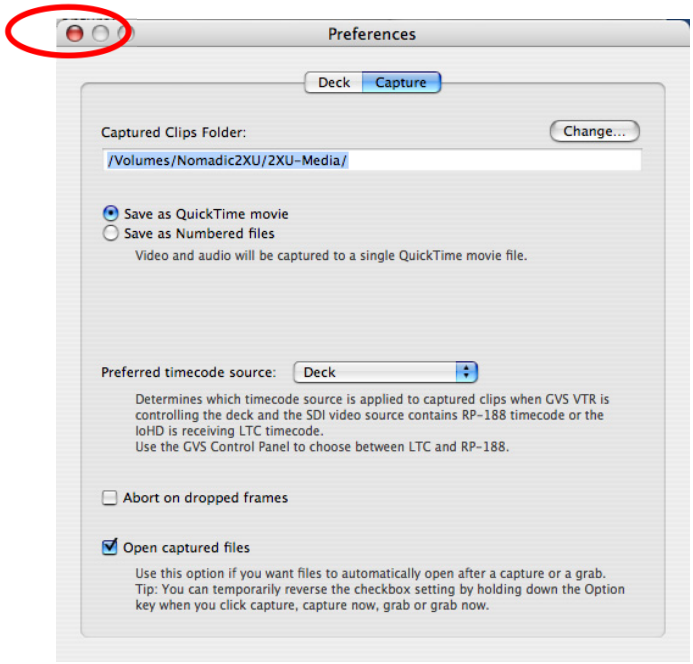

Figure 26: Closing GVS VTR Preferences window

11. In main window, enter “Clip” name:

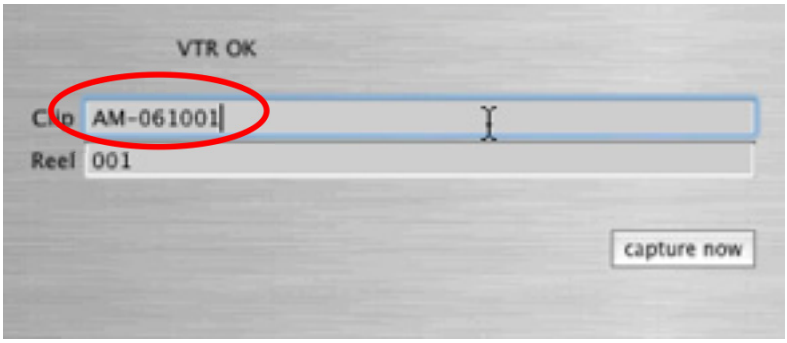

Figure 27: GVS VTR Clip name

12. To verify Video settings, click on “Capture” menu and select “Video Settings”:

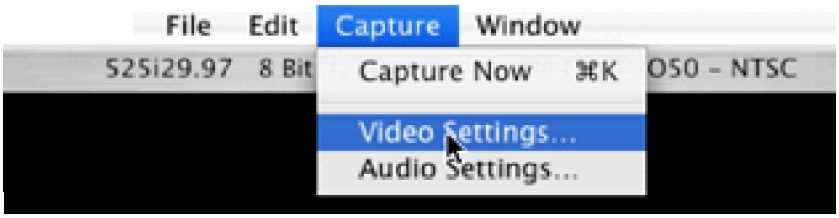

Figure 28: GVS VTR Video Settings selection

13. First under “Source” tab select the type matching the source for this capture:

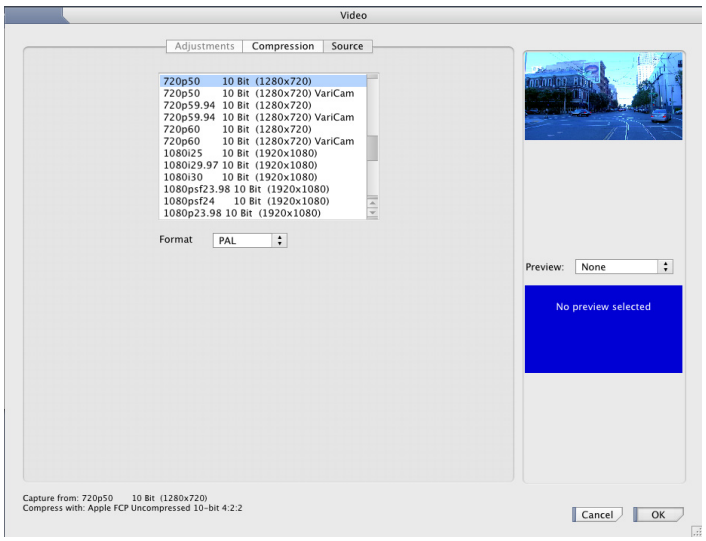

Figure 29: GVS VTR Selecting proper source under Video Settings

14. Select proper “Compression Type” under “Compression” tab in Video Setting:

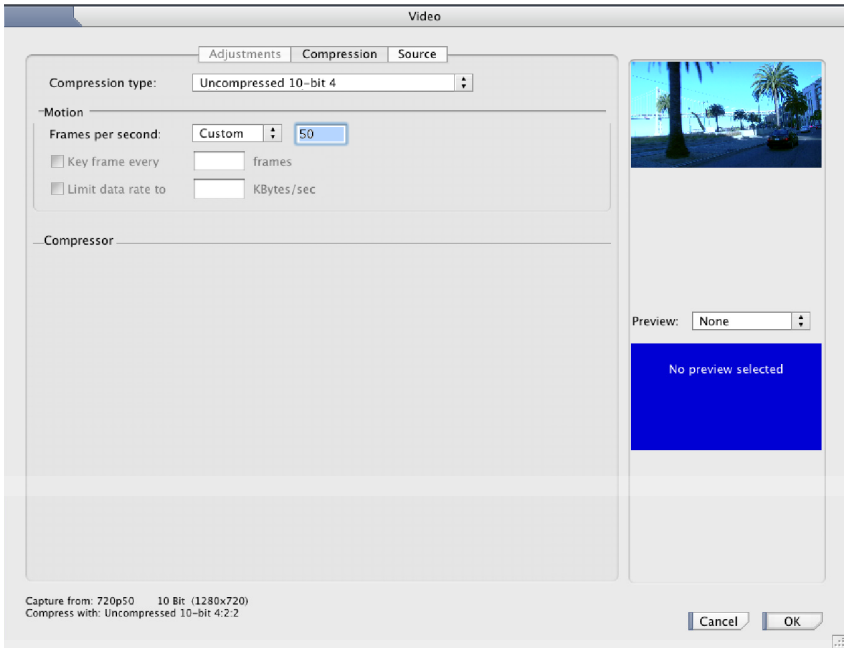

Figure 30: GVS VTR Selecting Compression Type

15. Verify current setting on bottom right hand side to “Video Settings” window:

Figure 31: GVS VTR Verify Video Settings

16. Click on “None” button next to “Preview” to find out more detail about incoming Video source:

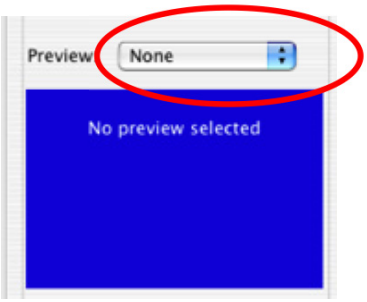

Figure 32: GVS VTR Preview options

17. Options available are: Vectorscope, Waveform, Histogram, RGB Parade, and RGB Histogram:

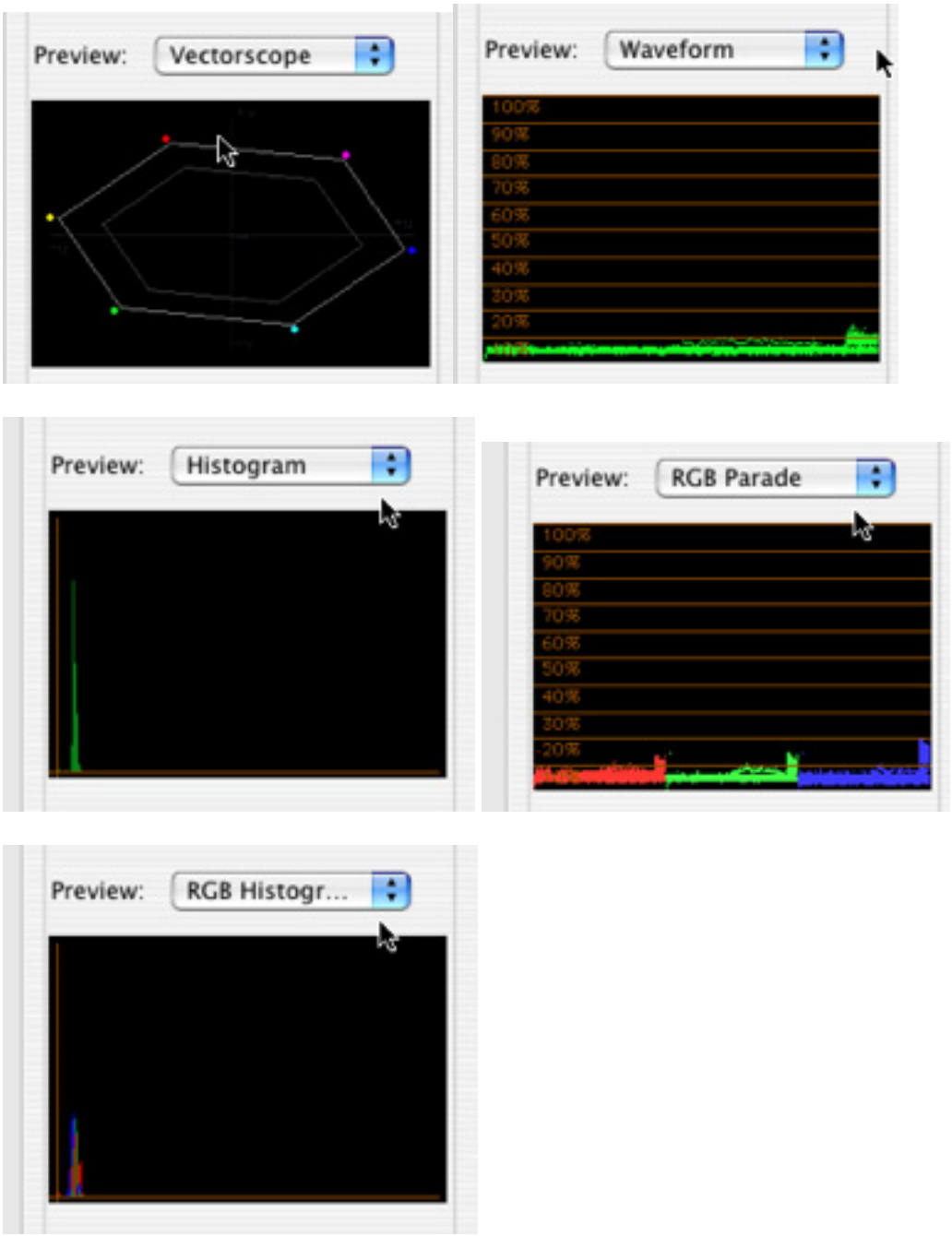

Figure 33: GVS VTR Various Preview options under Video Settings

18. To close Video Settings, click “Ok” to return to main window:

Figure 34: GVS VTR Close Video Settings

19. To verify Audio settings, click on “Capture” menu and select “Audio Settings”:

Figure 35: GVS VTR Open Audio Settings

20. Make sure Channel1, Channel 2, and Stereo are selected under "Audio Capture Settings" window and "Capture Audio" is checked on the bottom:

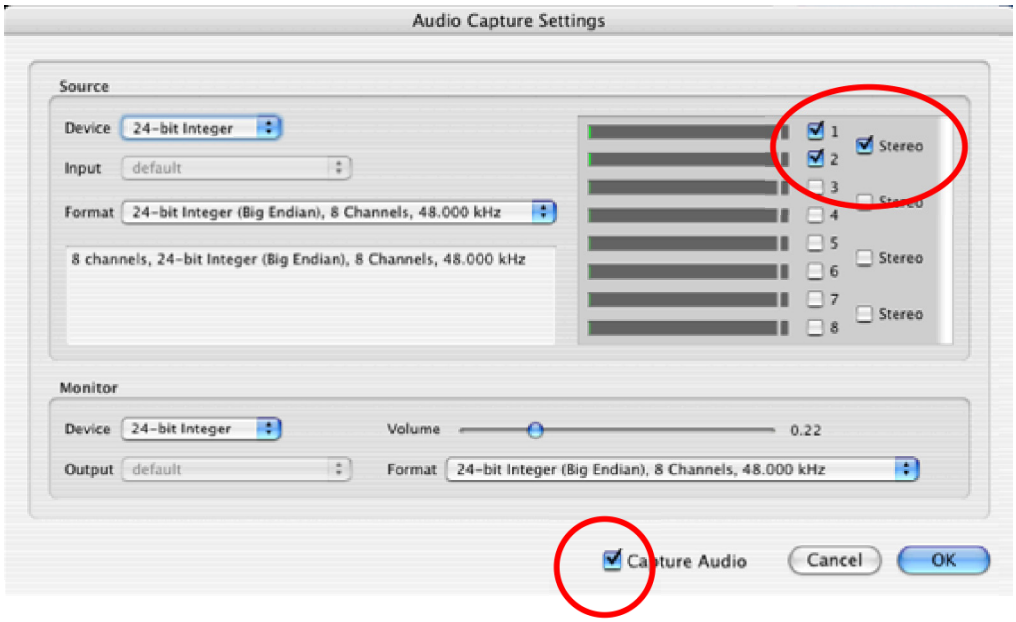

Figure 36: GVS VTR Enable Capture Audio

21. After closing "Audio Settings" window by clicking "OK", you can verify Video settings on the top of main capture window:

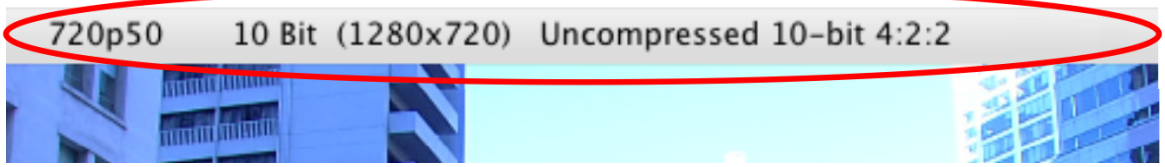

Figure 37: GVS VTR Verify Video Settings before starting capture process

22. To start capturing use "mark in" and "mark out" option to capture preset timecode then click "Capture" (if using embedded Timecode or no Timecode is required then use "Capture Now":

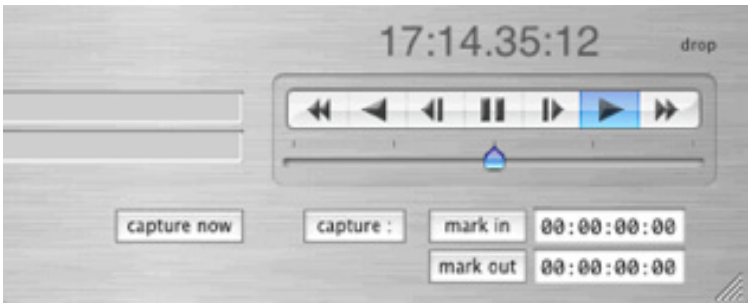

Figure 38: GVS VTR Mark In and Mark Out before Capture

23. Once capture start, you will see a window pop up showing "Cueing to preroll point":

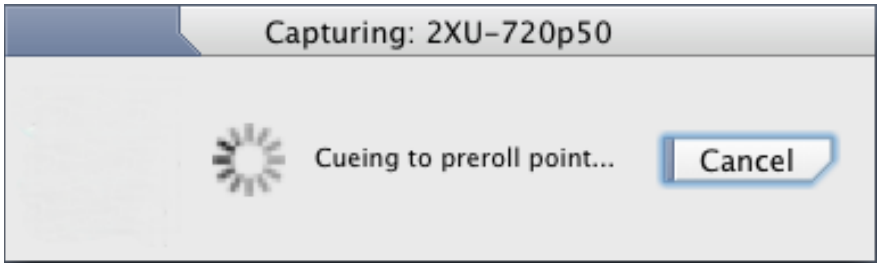

Figure 39: GVS VTR Cueing to preroll point window

24. Five seconds before reaching the Mark In point the pop will show "Prerolling":

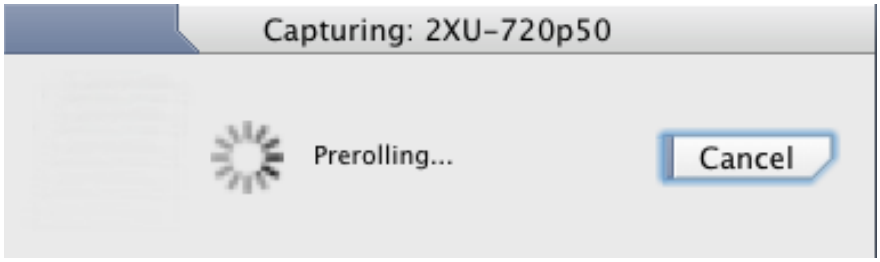

Figure 40: GVS VTR Prerolling window

25. Once Timecode In point is reached then it will show "Capturing":

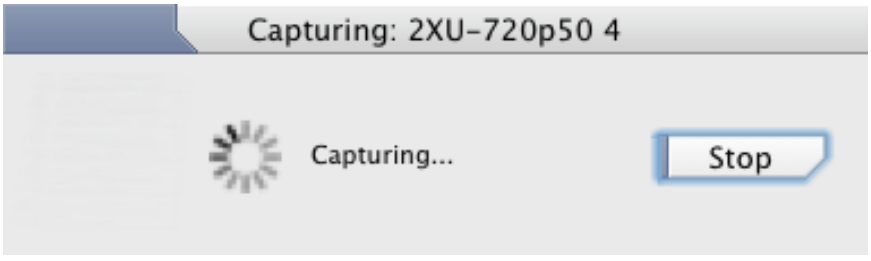

Figure 41: GVS VTR Capturing progress window

26. Once the Mark Out point is reach or manually stop capturing, a preview window will open up showing corresponding clip that was captured (If manually stop capture process then you will see a message indicating number of drop frames matching the length of time that was short of reaching Mark Out point):

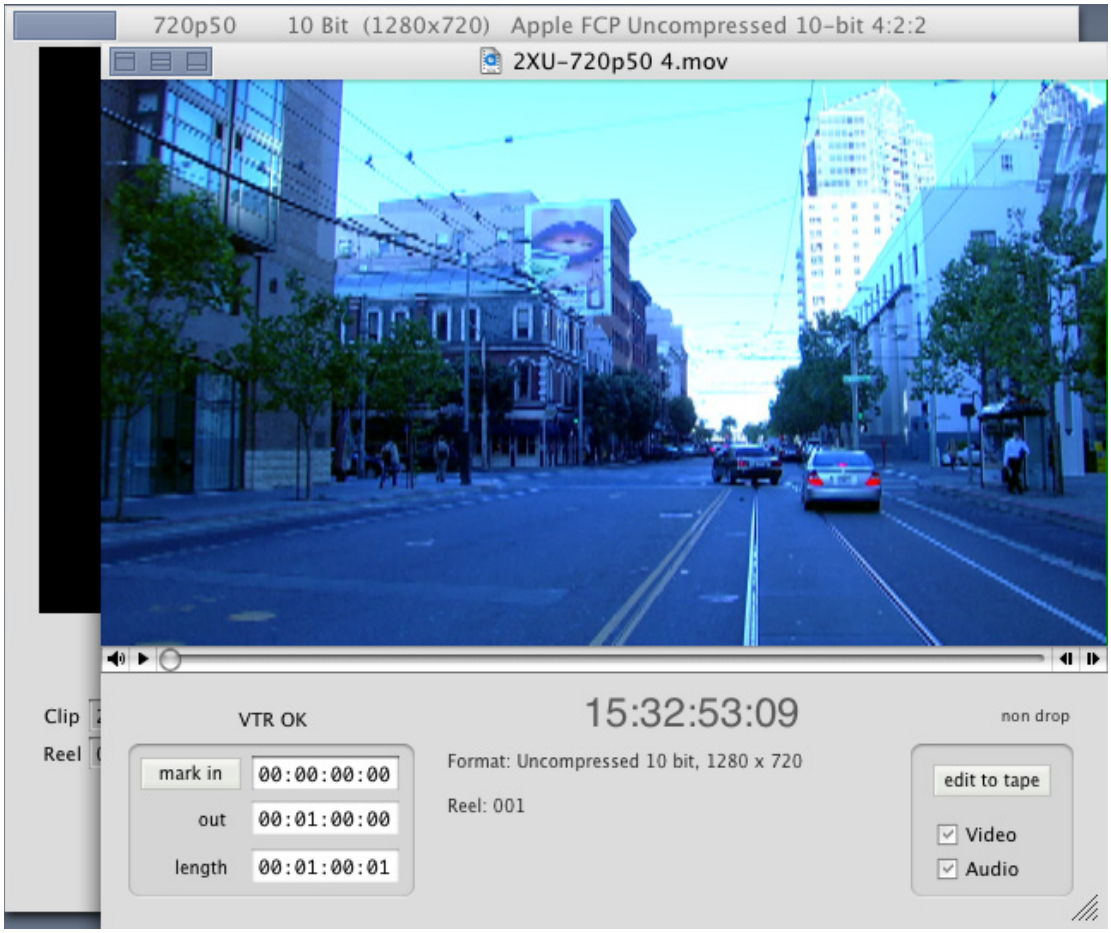

Figure 42: GVS VTR Captured clip preview

27. Close all windows then quit GVS VTR capture.

SECTION D: GVS9000 VTR SHUTDOWN SEQUENCE

After all capture processes are completed and all clips are transferred then you can proceed with shutdown process. You can shutdown your GVS9000 2XU VTR via remote connection.

1. Close GVS VTR and all other tools then click on top left corner of main screen and select Shut Down:

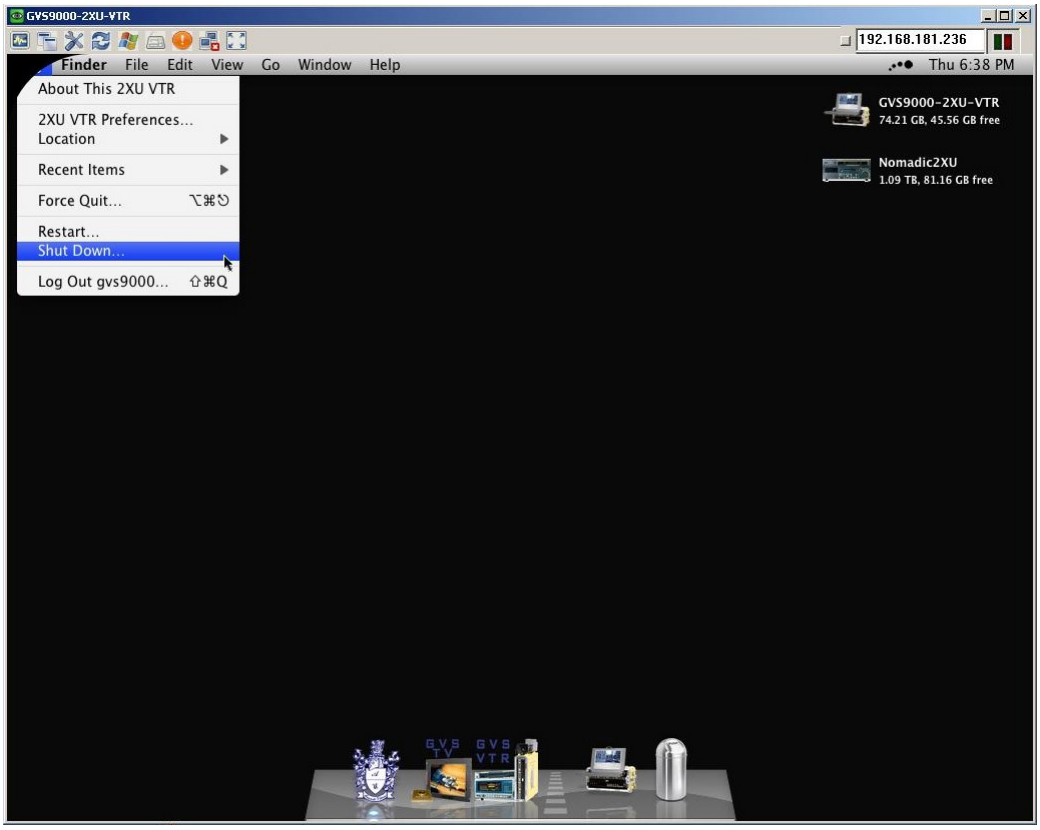

Figure 43: GVS9000 VTR Shut Down window

2. Click "Shut Down" in confirmation window to start shutdown process.

Figure 44: GVS9000 VTR Shut Down confirmation

3. Once GVS9000 2XU VTR is OFF then front LED light will go off but rear power supply fans will run until power cord is unplug or main power source goes off.

4. Now, you can power off all other components.

For questions and comments, please email to support@gvs9000.com

GVS Engineering Team