TECH NOTE

Fastrack VS™ Version 1.0 and later

LTC TIMECODE CLIPS ON PROFILE PDR

This document covers GVG's Profile VDR Panel application pertaining to the recording of new material on the Profile PDR using LTC timecode inputs to create clips that are compatible with the Fastrack VS hybrid editing system.

Covered in this Technical Note:
- Cable Pin-Outs for connection between PDR and Timecode sources
- Recording clips to the Profile with VDR Panel
- Playing LTC clips on Fastrack
- Adding (re-striping) timecode to existing clips

Cable Pin-Outs

Female D-25 connector attaches to PDR, J16 (Reference Genlock board); other ends typically consists of XLR male (PDR's LTC output) and female (PDR's LTC input) connectors.
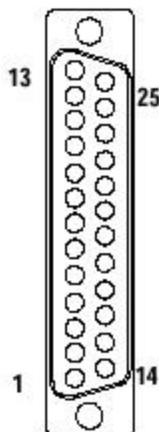
Female D-25 Connector

Profile PDR-200 Reference Genlock (LTC) cable (25pin to individual XLR)

The Reference Genlock cable (25pin) connects between the PDR-200 and individual XLR cables, each connected to an LTC source (input) or destination (output), typically on a VTR or timecode generator.

Female D-25 Connector Pin #	Description (three signals per channel) (count begins at zero on PDR)	XLR pin (Inputs = female connector) (Outputs = male connector)
1	Channel 0 Input +	Female XLR #1, Pin 2
2	Channel 0 Input -	Female XLR #1, Pin 3
3	Channel 0 Input Common	Female XLR #1, Pin 1
4	Channel 1 Input +	Female XLR #2, Pin 2
5	Channel 1 Input -	Female XLR #2, Pin 3
6	Channel 1 Input Common	Female XLR #2, Pin 1
7	Channel 2 Input +	Female XLR #3, Pin 2
8	Channel 2 Input -	Female XLR #3, Pin 3
9	Channel 2 Input Common	Female XLR #3, Pin 1
10	Channel 3 Input +	Female XLR #4, Pin 2
11	Channel 3 Input -	Female XLR #4, Pin 3
12	Channel 3 Input Common	Female XLR #4, Pin 1
13	*Power On Indicator*	*(not used)*
14	Channel 0 Output +	Male XLR #1, Pin 2
15	Channel 0 Output -	Male XLR #1, Pin 3
16	Channel 0 Output Common	Male XLR #1, Pin 1
17	Channel 1 Output +	Male XLR #2, Pin 2
18	Channel 1 Output -	Male XLR #2, Pin 3
19	Channel 1 Output Common	Male XLR #2, Pin 1
20	Channel 2 Output +	Male XLR #3, Pin 2
21	Channel 2 Output -	Male XLR #3, Pin 3
22	Channel 2 Output Common	Male XLR #3, Pin 1
23	Channel 3 Output +	Male XLR #4, Pin 2
24	Channel 3 Output -	Male XLR #4, Pin 3
25	Channel 3 Output Common	Male XLR #4, Pin 1

Recording clips to the Profile with VDR Panel

Open the **VDR Panel** application (double click on the VDR Panel desktop icon, shown below).

VDR Panel icon

Note: It is assumed that the user knows how to operate the VDR Panel application. The following instructions review the steps necessary to configure VDR Panel for LTC timecode recording.
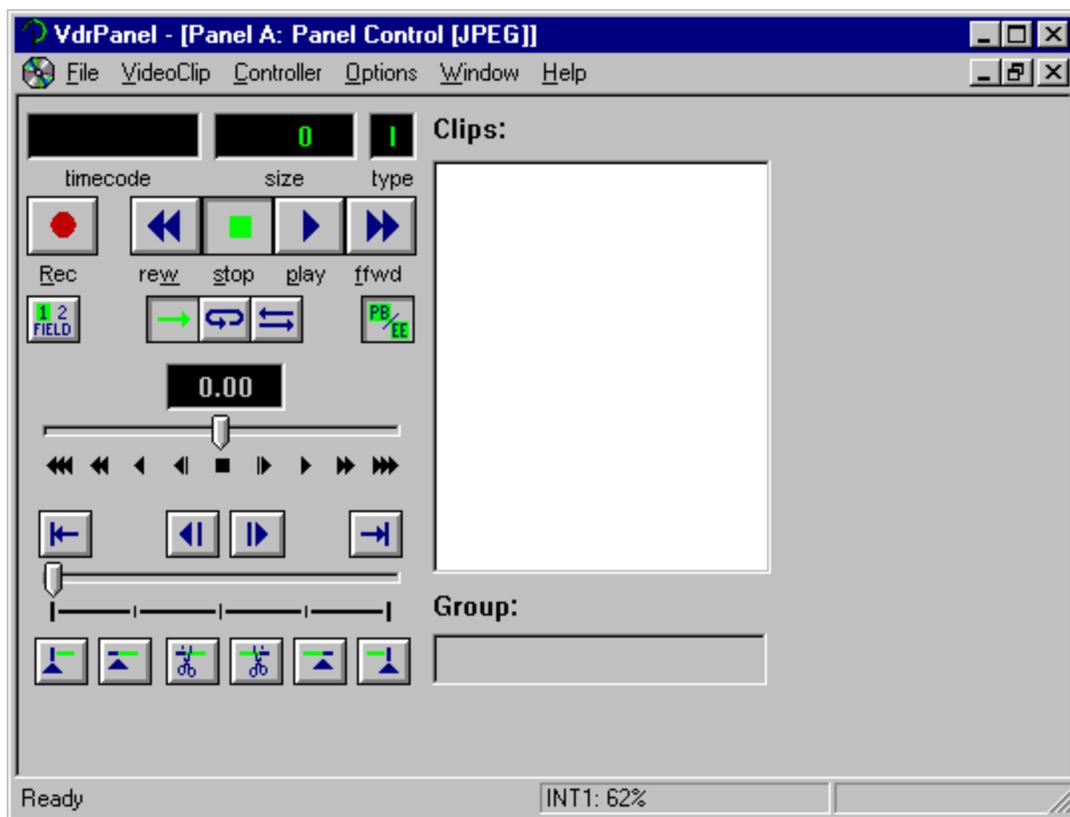
VDR Panel A opened

On the VDR Panel **Controller** menu item, configure a selected Panel (typically Panel A, configured as "Panel Control" using JPEG coded #1 with Video input 1 and audio inputs 1-4, TC Rec#1).
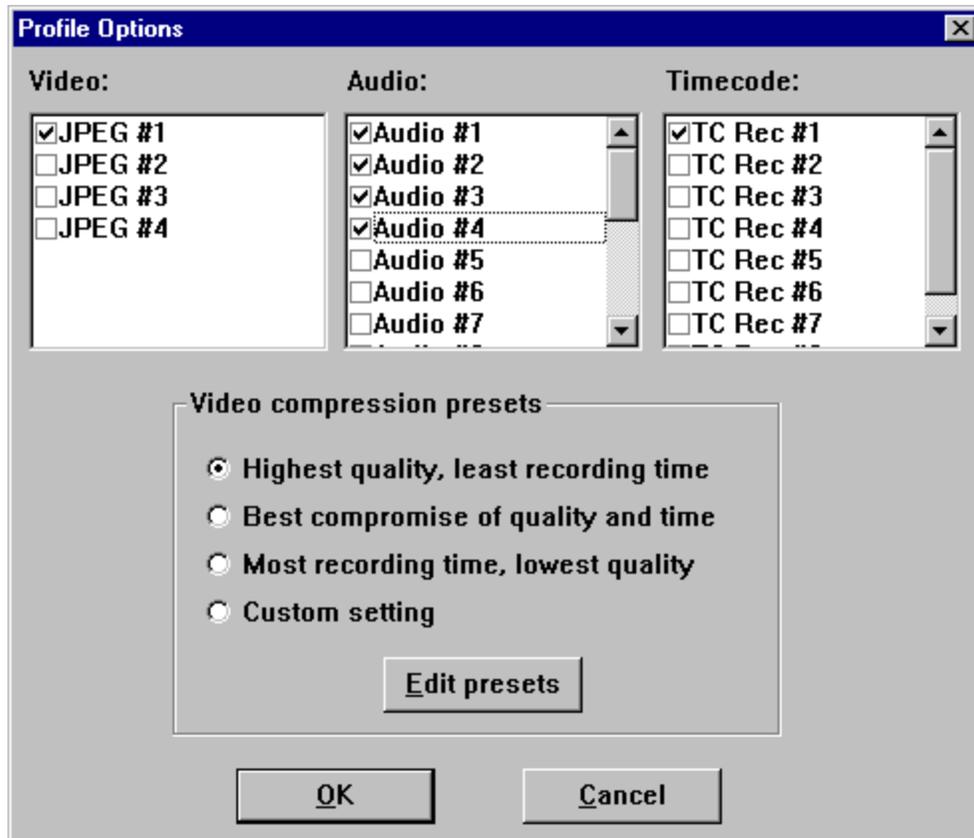
VDR Panel Configuration dialogue

On the VDR Panel **Video** menu item, open the **New Clip** dialogue. Input a name for the new clip and specify destination folder/path for the new clip (accept defaults, remember where it is stored for retrieval later).
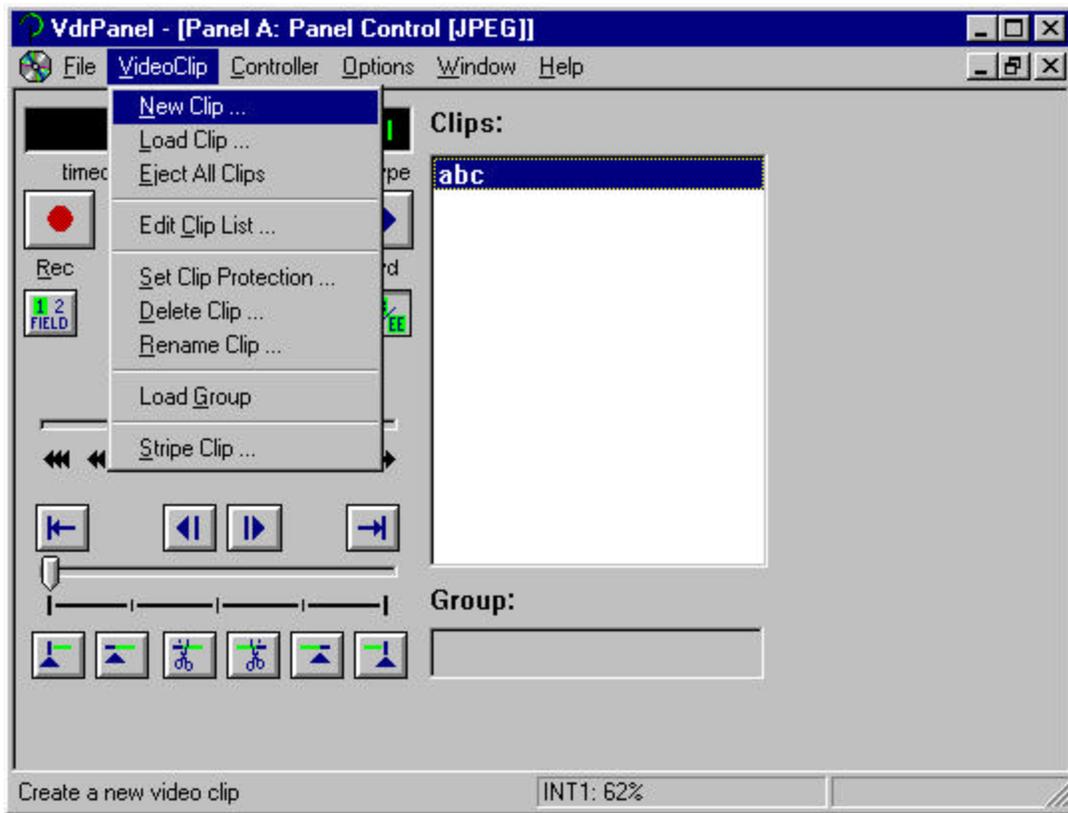
VDR Panel: New Clip dialogue

On the VDR Panel **Options** menu, specify DF or Non-Drop Frame timecode mode.

Then chose **Select Timecode** and chose an LTC Input (typically LTC 1 In for Panel A, but is routable). Other options in this menu include choices for the TC to display (typically LTC In), TC to generate and specific numbers to use when using TC generator.
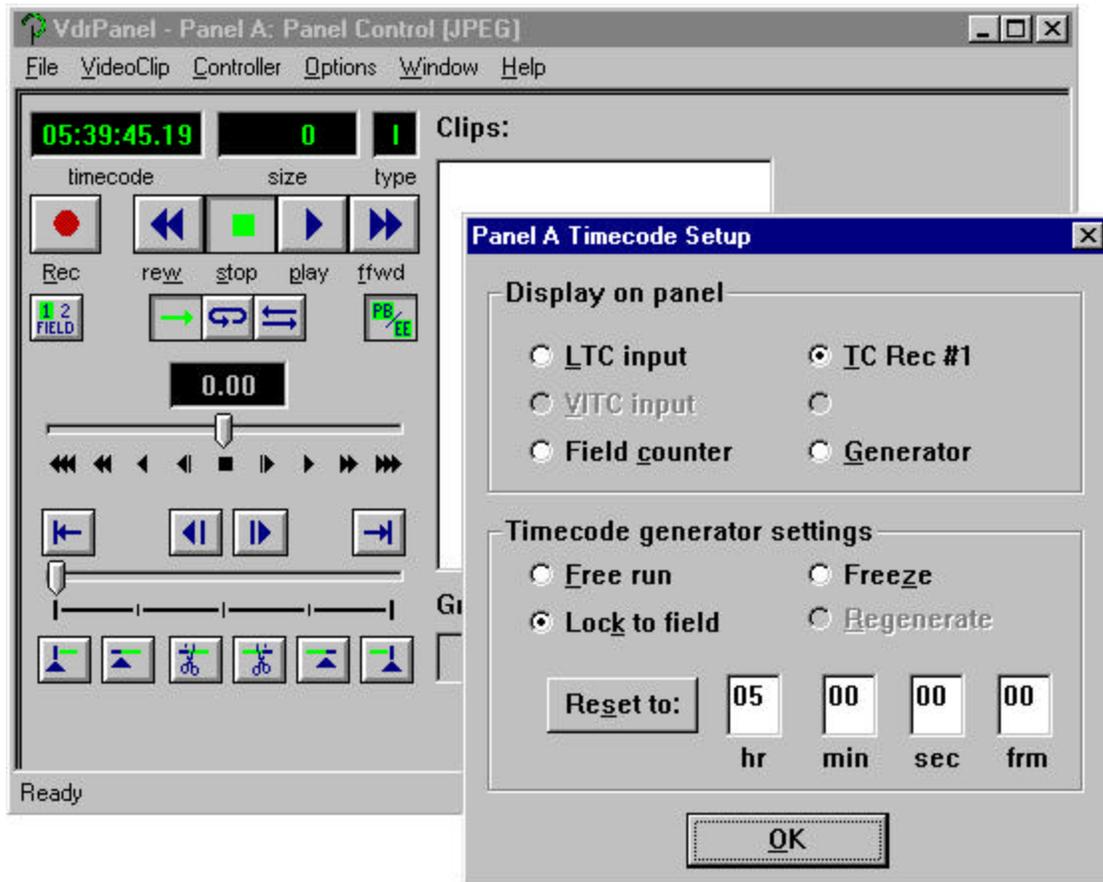
Select Timecode dialogue, TC Rec#1 selected on pop-up window.
This will allow the display of LTC#1 input defined in VDR Panel Configuration dialogue.

On the VDR Panel **Window** menu, you may chose to open the Audio Monitor (shows channels assigned to current Panel), Video Crosspoints (In/Out) and **Timecode Crosspoints**. Select the LTC In # (typically LTC#1 In for Panel A).
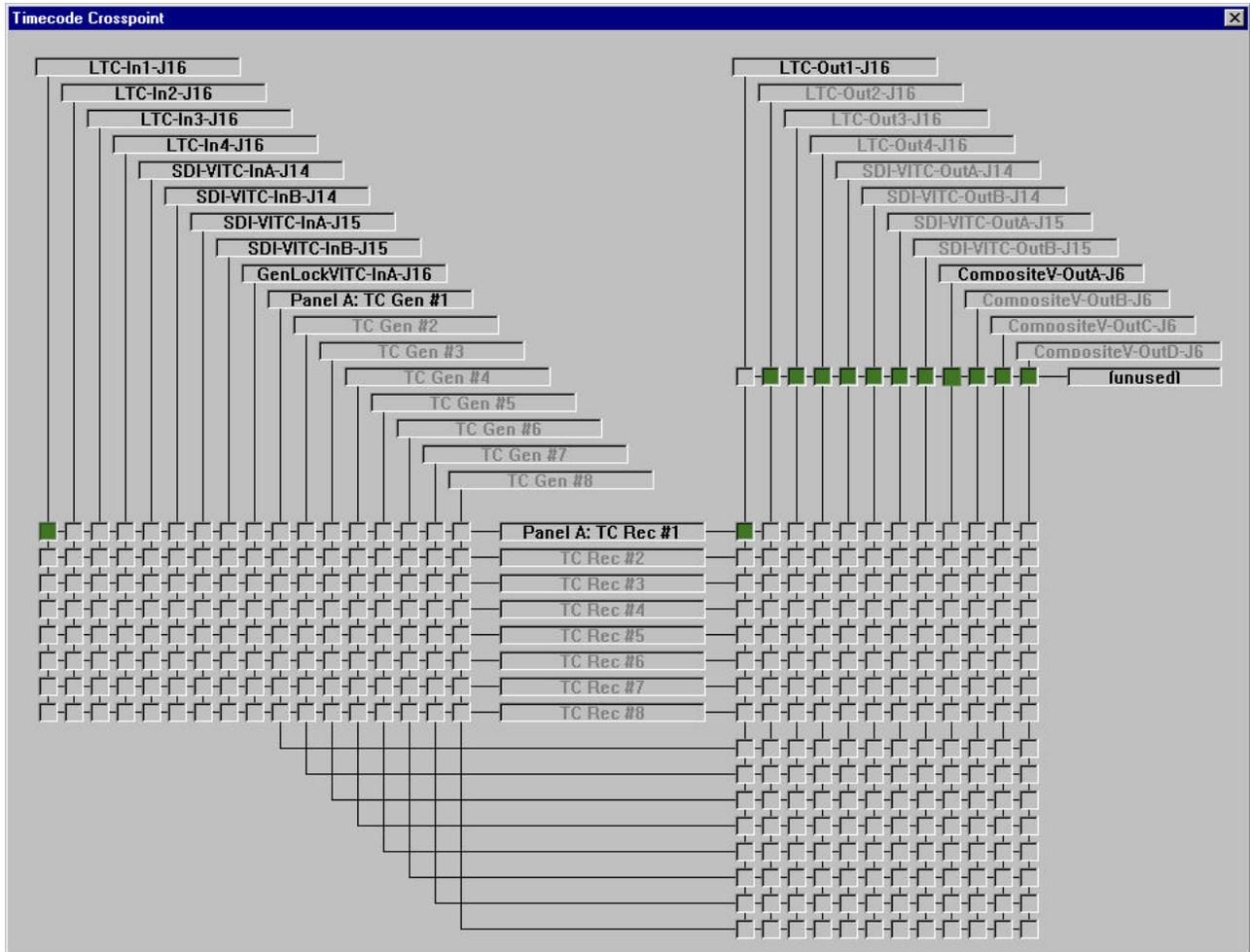
Timecode Crosspoints (this will vary on each PDR, depending on hardware resources).

Select **EE** (PB/EE toggle) on the **VDR Panel** while the source of the LTC timecode is playing to ensure that the current Panel is getting the LTC timecode and that the display option is correctly set for LTC.
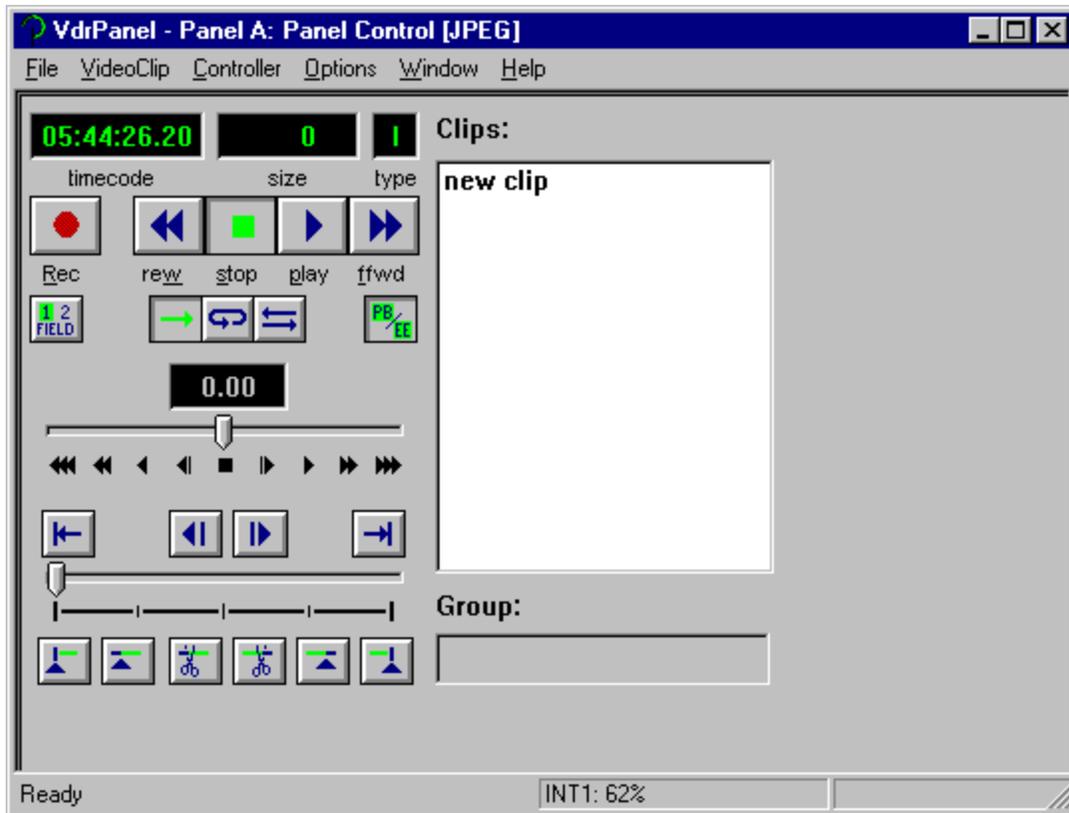
LTC timecode of 05:44:26:20 displayed with VDR Panel in "E-E" mode (PB/EE toggle pressed)

Record the clip. Once created (and even while still recording), this clip is available for playback on Fastrack using other PDR resource channels.

Using clips on Fastrack

Note: It is assumed that user has a channel of the PDR assigned to a Fastrack track and can access the folder on the Profile containing the newly created clip.

Select a Profile playback track on the Fastrack screen (T1-T80). Press the **ASGN** (K6 keyboard) or **DIR** (FT control panel) key on the Fastrack keyboard.
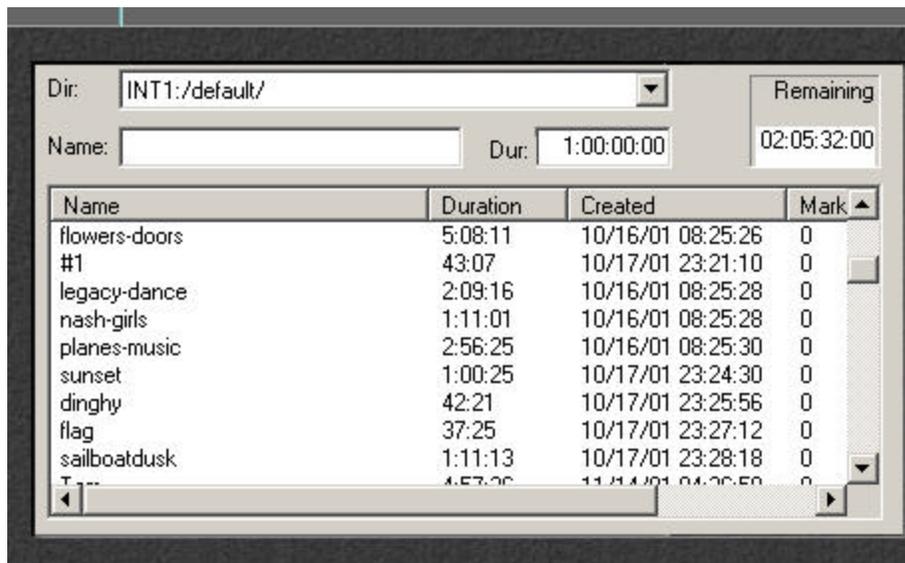
Fastrack VS Directory of clips (lower right window)

A directory of available Profile clips will appear in the lower right window. User may select different directories on the Profile if the current one does not contain the newly created clip. Once in the proper directory (folder), scroll the list of clips with either the up/down arrows (K6 keyboard) or the jog wheel (FT control panel) or the IntelliMouse Wheel (roll to scroll). Select the highlighted clip by double-clicking or pressing Enter on either keyboard/control panel.

The clip should load at the current CTI of the timeline on the highlighted (currently selected) track. Play the clip to confirm proper LTC is read.

If the characters "ctl" are shown in yellow letters under the timecode display window for the highlighted track, press the ALT TC (K6 keyboard) or CTL/TC (Shift + F/TC on the FT control panel) to toggle from control track to timecode mode.
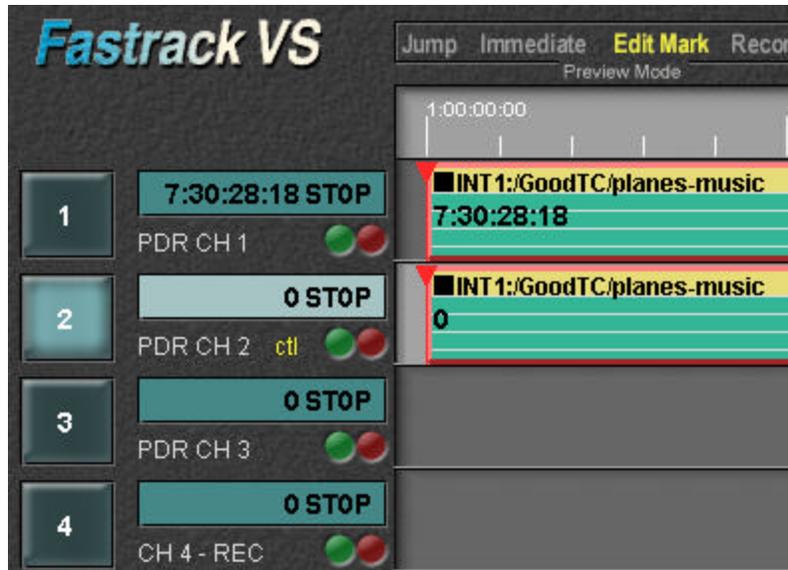
If a clip containing LTC timecode is loaded onto a track that has the "ctl" toggled set to **on**, the numbers will begin at zero for that clip. Toggling the timecode mode key will change the reading mode, but will not update the 'read' numbers on the highlighted clip. Prior to toggling the timecode mode, cue the clip to its IN point (default if just loaded) by pressing GOTO (FT) or SRCH (K6), then toggle the timecode mode with CTL/TC (FT) or ALT TC (K6) and re-mark the IN point (press Mark or IN).

Mark IN a new beginning and Mark OUT a new ending for this clip if the preset IN and OUT are not desired. Play, preview and/or record using your LTC timecoded clip!

Adding (post-striping) timecode to existing clips; re-striping

On the VDR Panel **VideoClip** menu, select **Load Clip** and then chose the clip to be re-striped. Select **Stripe Clip** and enter the starting timecode number desired. Pressing OK will instantly re-stripe the selected clip. Options for defining Drop Frame or Non-Drop Frame are under the **Options** menu.
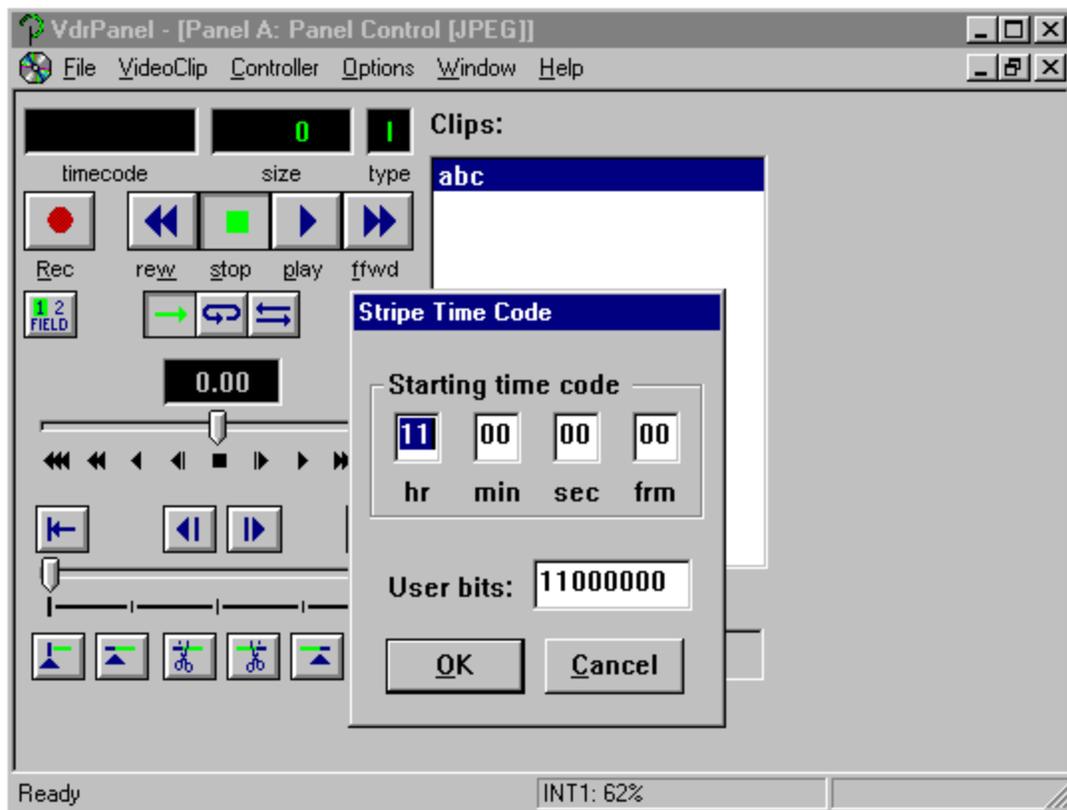
Timecode start of 11:00:00:00 defined in the Stripe Clip dialogue