KEYLOG TRACKER™

Instruction Manual

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1. Getting Started

1.1 Overview

KEYLOG TRACKER™ is an intuitive graphical user interface for the Evertz Film Post Production System. KeyLog TRACKER™ runs on standard Window 95 capable computer hardware and gives you access to a host of new capabilities for the system including more character windows, simultaneous KeyKode and Ink number handling and several new Time code modes to mention a few.

The Evertz Film Post Production System uses function specific hardware units such as the 4025TR Film Footage Encoder, the 5550 KeyKode and Film Time Code Reader and the 8025 Digital VITC Inserter to perform the bulk of the real time processing. This dedicated hardware reads and generates Video Time code, reads KeyKode, ARRI and Matrix Film Time code, inserts Vertical Interval Time code and character burn-ins into analog and digital program video, and keeps track of the 3/2 pulldown.

KEYLOG TRACKER™ centralizes the control of your 4025TR Film Footage Encoder, performs frame accurate logging of Video and Audio Time code, KeyKode, Ink numbers, 3/2 pulldown and related production data and provides extensive data base management capabilities for the resulting project data.

With KEYLOG TRACKER™ you have access to 12 separate character windows to display Video Time code, Audio Time code, KeyKode, Ink numbers (feet & frames), Scene, Take, Slate, Lab roll, Camera roll, Sound roll, Date of Production and a 32 character user definable text window. Individual windows can be positioned and turned on and off to meet client requirements.

An electronic slate function is also available to show all the vital information at the start of each take, for master transfers where you cannot display the normal burn-ins throughout the take.

KEYLOG TRACKER™ allows you to set up system configurations which are available to all film projects. Within each mode you can adjust various hardware settings to achieve precisely the result your clients demand. An unlimited number of system configurations can be saved and recalled, minimizing set up times for repeat clients and virtually eliminating operator error.

KEYLOG TRACKER™ allows you to set up multiple Telecine Setups to accommodate varying hardware configurations such as Noise reducers, Film grain reducers, and variable delays within the telecine itself. Each Telecine Setup contains its own set of KeyKode and Film Time code head offsets. Within each system configuration you choose the telecine setup that you want to use. When you change the parameters for a particular telecine setup they automatically get loaded into the new configuration.

In KEYLOG TRACKER™ Project files allow you to store all the information relating to a feature length film, or a single episode of a television show together. Any time you start a new project, it is recommended that you store the related project file and the Daily files in a separate folder. In this way if you use the same file names (for example, Daily1…Daily2, etc) you will not overwrite previously saved files. When you create a new project, one of the system configurations is copied into the project as the base for the project configuration. You can modify this configuration so that the hardware exactly fits your project. A project's configuration is automatically recalled when the project is opened, and you must send it to the 4025TR before data logging can begin.

KEYLOG TRACKER's™ Client window provides you with a convenient place to store information about your clients, and a default system configuration to use for this client's projects. When you create a new project file, KEYLOG TRACKER™ prompts for the project's Client Name and configuration. You may also enter other project and client information if desired.

The status bar at the bottom of the screen allows you to monitor the STATUS LED's of the 4025TR at a glance. In addition, the Encoder Status window constantly monitors KeyKode reading performance and other real time status information. It also gives you access to the 4025TR's help messages and firmware revision information.

KEYLOG TRACKER™ allows you to choose the optimal method of logging transfer elements to the database. You let the project determine whether you will log only the head and tail of each roll for one-light transfers, grab KeyKode or Timecode breaks for select take rolls, grab events on the fly from the keyboard, or interface to external edit controllers with the GPI interface. Production data such as Scene and Take, Camera roll, Sound roll can be pre-entered in Daily Roll files before the telecine session to streamline the transfer process or can be entered in real time during the transfer. When transferring print dailies, you can pre-enter the ink number where you want to log the data.

KeyLog TRACKER's™ extensive data management capabilities are second to none. Projects can be organized by client or production or by operator-you decide. The spreadsheet style preview and editing of logged events allows you to quickly scan the transfer session and edit the database. Project wide viewing and sorting of events facilitates management of data on long form productions such as feature films. Reports can be sorted by Video Tape roll, Camera roll, Scene/Take, KeyKode or Ink numbers to name a few.

KEYLOG TRACKER™ allows you to trim timecodes, KeyKode and Ink numbers of in and out points together. Event cleanup functions remove unwanted events and overlaps from the list.

KeyLog TRACKER™ generates Film Transfer list files compatible with most non-linear editors. KeyLog FTL, AVID ALE, Lightworks ODB, and FLEx file formats are supported. Several standard reports are available. Custom reports can be designed using Crystal Reports™ and easily inserted into KEYLOG TRACKER™.

The KeyLog TRACKER™ desktop groups relevant information into separate windows, which can be positioned and sized to suit the colorist's preferences. A spreadsheet style display of logged events is fully configurable to view only the information that is needed for a client. Each user can save their favorite layout of the desktop when the system is shared by multiple colorists.

1.2 Getting Started

Getting started with KEYLOG TRACKER™ is easy! If your already familiar with Data-Logging and Windows 95™ follow these steps to get you going fast.

KeyLog Tracker™ has built in security features that will only allow it to communicate with KeyLog Tracker™ compatible 4025TR Film Footage Encoder. There are also options available for KeyLog Tracker™ that allow you to add additional features such as 35mm 3 perf, and 8 perf film types, and Film time code processing. Registering an Option authorization code into the KeyLog Tracker™ software enables these optional features.

1.3 Getting Help

In order to allow you to use KEYLOG TRACKER™ to its fullest capabilities, we have made it easy for you to get started. The documentation included in this help file includes installation instructions, operating information for each KEYLOG TRACKER™ feature and troubleshooting information. You can also view the Readme file that is installed with KEYLOG TRACKER™ for any information that did not make it into print.

KEYLOG TRACKER's™ on-line help is comprehensive and informative and will quickly get you to the right topic. When you are operating KEYLOG TRACKER™ just press the **F1** key from anywhere you require help. You can also access general topics by selecting **Help Topics** from the Help menu. The help file is keyword indexed to allow you to easily search for topics of interest.

If you require Technical support from the factory you can contact our technical support department by one of the following methods.

Email	tracker@evertz.com
Fax	**+1 (905) 335-3573**
Phone	**+1 (905) 335-3700**

In order to expedite answers to your inquiries, please include the version of KEYLOG TRACKER™ you are using available from the Help/About KeyLog TRACKER™ menu item. Also include the firmware version information from the 4025TR Film Footage Encoder available by pressing the Versions button on the Encoder Status window. Include a detailed description of the problem you are having.

You can also consult the FTP site (http://www.evertz.com/ftp.html) on our web page for the latest patches, upgrades and lists of Frequently Asked Questions. (Download document KTRFAQ.HTML from http://www.evertz.com/ftp.html)

1.4 First Time Setup

1.4.1 Connecting Tracker to your 4025

If you purchased a Tracker™ Upgrade Kit, you will have to upgrade your 4025 to a 4025TR. Please refer to the Hardware Upgrade documentation that came with the kit prior to continuing with the software setup.

In order to connect your 4025TR to your PC, you will have to make a cable as shown below. Your PC will be equipped with either a DB-25 or DB-9 pin serial port. Use this cable to connect the computer's COM port to the **Serial I/O** connector on the rear of the 4025TR.

9 Pin Male to 25 Pin Female

4025TR Serial I/O	Male	Computer Serial Port Female	
Description	**DB-9**	**DB-25**	Description
	Shield----------	1	Ground
	2		
	3		
	4		
RS 232 TxD	5----------	3	RS 232 Receive
Ground	6----------	7	Ground
	7		
RS 232 RxD	8----------	2	RS 232 Transmit
	9		

9 Pin Male to 9 Pin Female

4025TR Serial I/O	Male	Computer Serial Port Female	
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Ground	6----------	5	Ground
	7		
RS 232 RxD	8----------	3	RS 232 Transmit
	9		

1.4.2 First Time Setup

Once the installation is complete, click on the Start button and then click Programs. Select the "Evertz Products" program group and click on the "Tracker™" icon.

You are presented with the KEYLOG TRACKER™ Splash screen and the Login dialog box. Enter "user" as a user name, leave the password area blank and click the "OK" button. For information on setting up additional users see the help item Security Window

You are then presented with the General Options dialog box that allows you to enter your facility name and the Communications port on the computer that you are using. The "Communications Port" drop down list shows what ports your computer has available for communications. Press Okay once you have verified the communications port settings. If everything is working properly then the "Time Bar" values at the top of the screen should show the same Time Code and KeyKode numbers shown in the 4025TR hardware. There should also be green indicators in the Status Bar at the bottom of the screen. If the COMM indicator is red, that shows that the hardware is not responding. If you receive Communications Error message box, check your cable connection and verify that you have selected the correct communications port on your computer.

1.4.3 Configuring the Telecine Setup

The first thing that you need to do when you're first setting up the KEYLOG TRACKER™ software is to configure the Telecine setup to match your transfer suite. Choose the Telecine Setups item from the Edit menu.

The Telecine Setups window shows the System Default Telecine Setup that is installed with the software. Each Telecine Setup consists of a group of telecine related parameters including the telecine type, the telecine biphase rate, the type of frame pulse handling that's appropriate for your telecine, and video delay and pre-store film delay parameters that are appropriate for your installation. Each Telecine Setup also includes a set of KeyKode head offsets.

To change the default settings to match your installation, click on the Edit button. You can change the description to something more appropriate if desired. Select the telecine type that most closely matches your installation by clicking on the down arrow on the telecine type combo box. You are now presented with a list of the possible telecine types supported by the 4025TR hardware. Click on the telecine type to select it. The default biphase rate and Frame Pulse Handling for that telecine type will be automatically entered. Select the correct biphase rate or Frame Pulse Handling using the respective combo boxes. Consult your 4025TR manual for information for which settings you should use if you're unsure.

If you have video delays between the output of the telecine store and the input of the 4025TR hardware then set the video processing delay to the appropriate number of fields. If you have additional Pre-store film processing delays that have been added for devices such as Clearview or film grain reducers then enter in the appropriate number of film frames of delay for your system and press the OK button.

The next step that you need to do is verify that the Telecine Setups that you have configured works correctly for biphase only applications. Close the Telecine Setups window by clicking on the x in the top right corner.

1.4.4 Verifying the Basic Telecine Setup

KEYLOG TRACKER™ allows you to save multiple System Configurations. Each System Configuration is stored separately and consists of all of the parameters related to mapping of the Time code and KeyKode Inputs and Outputs, film type and rate, Telecine Setup, Capture modes and character window attributes and positions. KEYLOG TRACKER™ ships with several System Default Configurations. These Default configurations can be copied but they can not be changed.

To verify the accuracy of the Basic telecine setup copy the biphase test configuration for the video standard you are using. Select either the System Default NTSC or PAL biphase test configuration (depending on what video standard you are using) and press the  button. You are presented with the Add System Configuration screen that has six tabs on it. Enter the name "Engineering Test" for your new System Configuration. The video standard combo box should be the same as the video standard you are using. The mode combo box allows you to quickly set up the 4025TR hardware for various applications. Clicking on the arrow presents a list of modes that are available with the 4025TR and KEYLOG TRACKER™. Choose the "Biphase accuracy test" mode if it is not already displayed. Selecting a mode automatically fills in appropriate information in most of the other boxes on the configuration screen. See the System Configurations help item for a full description of the System Configuration Screen.

The Codes tab is used to determine the source of the logical time codes and film codes that are used within KEYLOG TRACKER™. The video and audio time code sources are shown in the respective boxes. KEYLOG TRACKER™ keeps track of two sets of film numbers: the KeyKode and the ink numbers. For the biphase test we want to update the KeyKode numbers manually so that we can tell the accuracy of the system and for the moment we are going to ignore the ink numbers.

The Outputs tab allows you to select what timecode and KeyKode outputs are going to occur for the box. There are four possible outputs longitudinal timecode or linear timecode, and three lines of vertical internal timecode. Each of the combo boxes allows you to choose the outputs for your particular application. All of the outputs are preset when you choose the Biphase accuracy test mode.

The Film tab allows you to choose the type of film that you are using, the film transfer rate and the edge number encoding style and to adjust any of the KeyKode settings that are appropriate. Select the appropriate Film Gauge and Film Rate.

The Capture tab allows you to set various parameters that happen while you're capturing data from the 4025TR. You can ignore the capture settings for the biphase test.

The Telecine tab allows you to choose a particular Telecine Setup. At this time the Default System Telecine Setup is the only one available.

The Windows tab allows you to configure the characters windows burned in on the video. Make sure that the Video Time Code and KeyKode windows are turned on. To do this, select the appropriate window from the list and press the Edit button or just double click on the window name. Make sure that the Window check-box is checked, and press the Ok button. For more information about configuring the character window displays see the Project Configuration - Window Settings help topics.

Press the Okay button to send this information to the 4025TR hardware and save the new System Configuration. Close the System Configurations window by clicking on the x in the top right corner. After setting up the system configuration proceed to the Biphase Accuracy Test to verify the accuracy of your basic telecine setup.

1.4.5 Biphase Accuracy Test

The following procedure allows you to verify that you have configured your telecine setup correctly. You may want to purchase the Kodak KeyKode Verification Film for these accuracy tests; otherwise any piece of reference film will work.

1. Make note of the key number on a piece of reference film. This number is usually the Key number of the frame where a reference KeyKode dot is located (i.e. on the whole foot mark.). Mark this reference frame with a punch or grease pencil. Place this film on the telecine, with the reference frame in the gate. Select Load Film from the Tools menu, or press the Load Film button  on the toolbar. (The Load Film procedure must be done each time a new piece of film is loaded onto the telecine. See the Load Film help item for more information.)
2. Open the Set Codes window in KEYLOG TRACKER™ by selecting **Set Codes...** from the Edit menu, or press the **F2** key. Set the Video timecode to 01:00:00:00 and set the KeyKode footage number to 1000+00 by entering the values into the respective fields. (The Keykode numbers will be manually updated from the biphase during this test.) Press the OK button. Open the Encoder Status window by pressing the  button on the toolbar.
3. Back up the telecine to allow at least 5 seconds pre-roll time. Transfer a short section of film (which includes the reference frame) to videotape. When the telecine achieves locked PLAY speed, the telecine FRAME and LOCK LEDs on the 4025TR front panel, and on the KEYLOG TRACKER™ status bar should be on and there should be a '+' between the footage and frames in the character generator. Press the HELP button in the Encoder Status window if the FRAME and LOCK indicators are not on.
4. Play back the video tape in slow shuttle or jog mode, and verify that the Video timecode and edge code (KeyKode) numbers and the pulldown letter (in NTSC 24 Frames per second transfers) that you entered for the reference frame are correct. If they are correct you can proceed to install the KeyKode reader system.
   If the Edge numbers are not correct, or do not change when the film frames change match the picture pulldown, check to see that you have properly compensated for any delays in the video path from your telecine to the 4025TR. This value is entered in the Video Delay text box on the Edit Telecine Setups screen.

If the timecode numbers are not correct, check that you have set the correct Film Rate setting in the system Configuration that you created for this test.

In 24 FPS NTSC transfers, the pulldown of the reference frame is not guaranteed unless you are using a device such as a Time Logic Controller or POGLE to control the telecine. This means that the reference film frame may correspond to more than one video frame, and that the exact timecode / edge code numbering relationship is ambiguous except for A frame pulldowns.

In 30 FPS NTSC or 25 FPS PAL transfers see section 3.12.6 of the 4025TR manual for a discussion of Field 1 dominant and Field 2 dominant characteristics.

5. After you have made any adjustments, park the telecine with the reference frame in the gate and repeat steps 2 through 4 until you have satisfactory results. To verify the accuracy for other film formats or transfer rates, Select **System Configurations...** from the Edit menu and double click on the Engineering Test System Configuration you created earlier in this section. Select the appropriate Film type or Film transfer rate on the Film tab and press Ok. Then repeat the verification procedure outlined above.

1.4.6 Learning the KeyKode Head Offsets

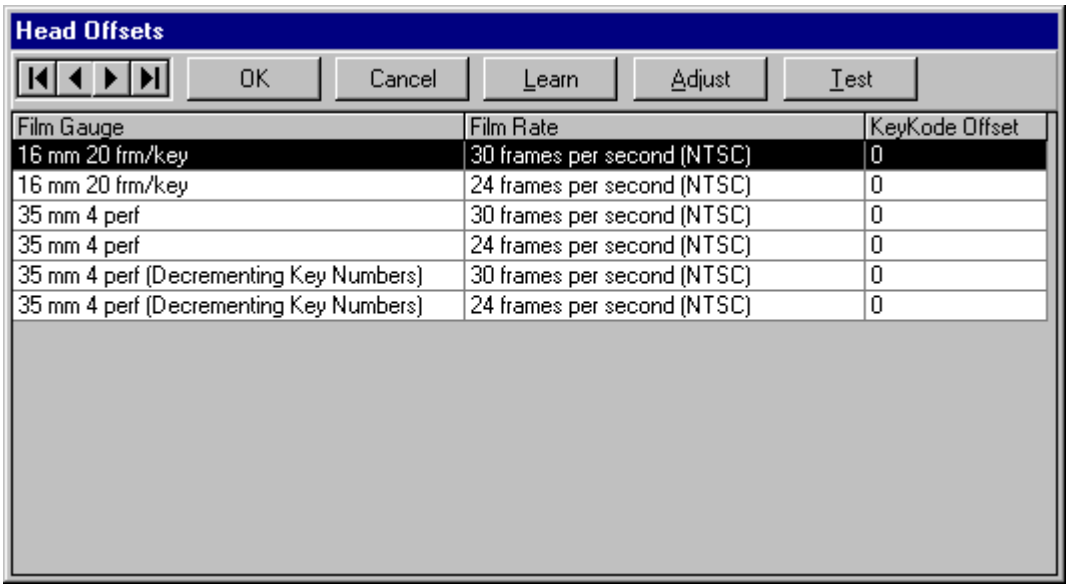
The following calibration procedure MUST be performed before the 4025TR will use the KeyKode information it receives. The head offset for each film type and transfer speed MUST be initialized for each combination used.

Refer to the installation instructions you received with the KeyKode reader system to install the reading hardware on your telecine and connect the decoder to the 4025TR. Once the KeyKode reader has been installed on the telecine verify that the reader is reading properly, and that the two units are communicating.

Put a piece of bar-coded film stock onto the telecine, and put the telecine in Play. You should observe that the reader unit is reading the KeyKode, as indicated on the reader electronics unit. Usually a beep or tone from the reader electronics unit indicates that it is reading successfully. Also, the KKODE LED on the 4025TR front panel and the KK indicator on the KEYLOG TRACKER™ status bar should blink each time a barcode data record is sent to the 4025TR.

KEYLOG TRACKER™ maintains separate head offset values for 16 mm and 35 mm film types for each transfer speed. There is a separate list of head offsets stored in each Telecine Setup, so it is desirable to learn all the head offset values you will need before creating additional Telecine setups. KEYLOG TRACKER™ automatically sends the correct head offset value to the 4025TR when it loads a configuration.

The next step is to learn the KeyKode head offsets. This is done on the KEYLOG TRACKER™ Telecine Setups screen. Select **Telecine Setups...** from the **Edit** menu. The Telecine Setups window will open and the System Default Telecine Setup will be selected. Press the Edit button to make changes to this telecine setup, and press the Head Offsets button to open the Head Offsets screen. This screen shows a summary of the possible head offsets available for the video standard you are using.



Select the head offset that you want to learn and press Learn button. The head offset learning wizard will guide you through each of the steps necessary to properly learn the head offset. The first screen reminds you to perform the Biphase accuracy test before you attempt to learn the head offset. If you have already done that press the Next button to proceed. If not, then go back and perform the biphase accuracy test.

On a piece of bar-coded film stock, select a reference frame that is beside one of the barcodes. (The reference frame is located beside the reference dot of the barcode as shown in the graphic on the Head offset wizard screen.) Identify this frame with a punch mark or grease pencil. On 35 mm film, make sure that you don't choose one of the mid-foot bar codes but one of the whole foot ones which have a larger human readable font. The second screen shows what the reference frame KeyKode number should look like for the film type you are using. Press the Next button to proceed.

Thread this film onto the telecine, and place the reference frame in the gate. Enter the foot and frame number corresponding to the reference frame in the Frame Number box. Select the perf number that corresponds to the perf of the reference frame using the Perf pull down. The barcode in the graphic should look like it does beside the reference frame on the film. Press the Next button to proceed to the next step.

Put the telecine in play and proceed to learn the head offset. When the telecine is running and KeyKode is reading the learn button becomes active and the KeyKode/Biphase error will show the number of frames of discrepancy between the keykode coming in from the reader and the number that you manually entered. Press the Learn button. KEYLOG TRACKER™ will automatically calculate the head offset and send it to the 4025TR. The KeyKode/Biphase error and KeyKode perf offset will show ?? for a few seconds and then they will be updated with the information based on the new head offset. The Keykode/Biphase error should be zero. The Keykode perf offset should match the target perf offset shown. The target perf offset is calculated by KEYLOG TRACKER™ based on the perf orientation of the reference frame's Keykode. If necessary you will be prompted by a red warning message to manually adjust the head offset or to press the Learn button again. When you have learned the correct head offset press the Next button to proceed.

Note that if you are using a reference film with discontinuities of the KeyKode numbers (such as the Kodak KeyKode Verification film) you must complete the learning process before you go across the splice.

Press the Finish button to complete the head offset learning for this film type and store the new head offset in the head offset table. You may now proceed to learn other head offsets or you may proceed to do the Keykode accuracy test . **Make sure you press the OK button to save the head offsets. Press the OK button one more time to save the head offsets along with your telecine setup.**

Each telecine setup maintains separate tables for head offsets. When you create a new one the head offsets will be automatically copied from the one that is highlighted. It is recommended that you learn the head offsets in the System Default Telecine Setup first and copy the head offsets from that one into other Telecine Setups when you create them. For information about creating new Telecine Setups see the Telecine Setups Window help item. After you have learned the head offset proceed with the KeyKode Accuracy Test.

1.4.7 KeyKode Accuracy Test

To verify the accuracy of the system with KeyKode, modify the Engineering Test system configuration created previously. Choose **System Configurations..** from the **Edit** menu. Double-click on the Engineering Test Setup. You are presented with the Edit System Configuration screen for the Engineering Test System Configuration. Choose the "KeyKode Accuracy test" mode. This will automatically fill in appropriate information in most of the other boxes on the configuration screen. For the KeyKode test we want to update the KeyKode numbers when the Telecine is in Play and Shuttle. Select the appropriate Film Gauge and Film Rate from the Film Tab. Make sure that the Video Time Code and KeyKode character windows are visible using the Windows tab. Press the Okay button to send this information to the 4025TR hardware and save the edited System Configuration. Close the System Configurations window by clicking on the x in the top right corner.

In order to proceed with the KeyKode Accuracy test use the following procedure:

1. Make note of the key number on a piece of reference film. This number is usually the Key number of the frame where a reference KeyKode dot is located (i.e. on the whole foot mark.). Mark this reference frame with a punch or grease pencil. Place this film on the telecine, with the reference frame in the gate. Select Load Film from the Tools menu, or press the Load Film button  on the toolbar. (The Load Film procedure must be done each time a new piece of film is loaded on to the telecine. See the "Load Film " help item for more information.)
2. Open the Set Codes window in KEYLOG TRACKER™ by selecting **Set Codes...** from the **Edit** menu, or press the **F2** key. Set the Video timecode to 01:00:00:00 and set the KeyKode footage number to 0000+00 by entering the values into the respective fields. (This will allow you to tell when the Keykode numbers have been automatically updated from the incoming KeyKode information.) Press the OK button. Open the Encoder Status window by pressing the  button on the toolbar.
3. Back up the telecine to allow at least 5 seconds pre-roll time. Transfer a short section of film (which includes the reference frame) to videotape. When the telecine achieves locked PLAY speed, the telecine FRAME and LOCK LEDs on the 4025TR front panel, and on the KEYLOG TRACKER™ status bar should be on and there should be a '+' between the footage and frames in the character generator. The KeyKode register on the 4025TR front panel and the KeyKode number on the KEYLOG TRACKER™ time bar should update so they are the same as the KeyKode of the reference frame. The KK indicator on the KEYLOG TRACKER™ status bar should be on. Press the HELP button in the Encoder Status window if the FRAME, LOCK or KK indicators are not on.
4. Play back the videotape in slow shuttle or jog mode, and verify that the Video timecode and KeyKode numbers and the pulldown letter (in NTSC 24 Frames per second transfers) for the reference frame are correct.
   If the KeyKode numbers are not correct, recheck the head offset learning procedure as described in Learning the KeyKode Head Offsets.

If the timecode numbers are not correct, check that you have set the correct Film Rate setting in the system Configuration that you created for this test.

In 24 FPS NTSC transfers, the pulldown of the reference frame is not guaranteed unless you are using a device such as a Time Logic Controller or POGLE to control the telecine. This means that the reference film frame may correspond to more than one video frame, and that the exact timecode / edge code numbering relationship is ambiguous except for A frame pulldowns.

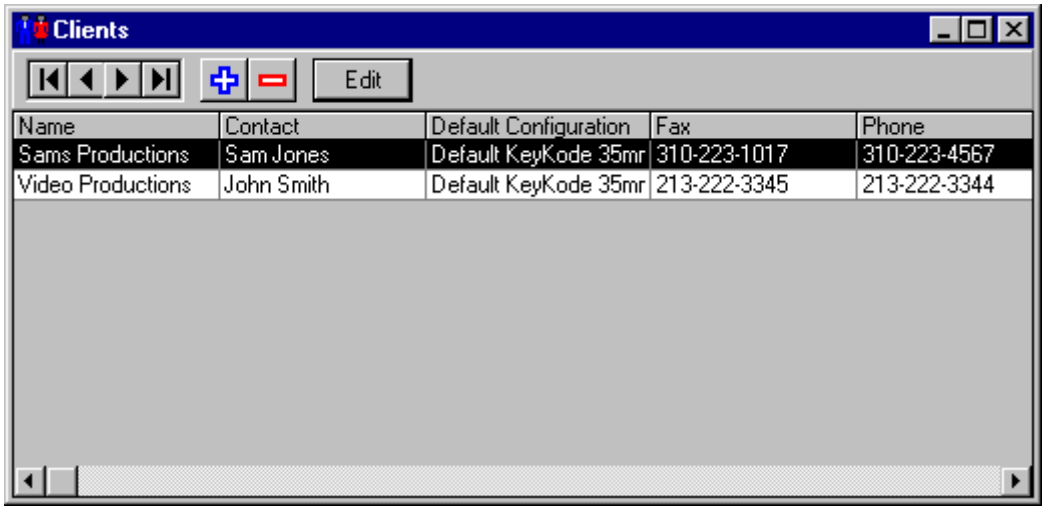
In 30 FPS NTSC or 25 FPS PAL transfers see section 3.12.6 of the 4025TR manual for a discussion of Field 1 dominant and Field 2 dominant characteristics.

5. After you have made any adjustments, park the telecine with the reference frame in the gate and repeat steps 2 through 4 until you have satisfactory results. If you are still experiencing problems, recheck the accuracy of the numbers without KeyKode as described in the Biphase Accuracy Test help topic. To verify the accuracy for other film formats or transfer rates, Select **System Configurations...** from the Edit menu and double click on the Engineering Test System Configuration. Select the appropriate Film type or Film transfer rate on the Film tab and press Ok. Then repeat the verification procedure outlined above.

2. Procedures and Definitions

2.1 Databases and Records

Move the mouse over the picture below and pause on anything you are unfamiliar with. If the mouse cursor looks like a hand with a pointing finger, then a "PopUp" window will appear if you click on this item. This "PopUp" will inform you of the name of the "Control" and give a brief description of how to use it.



2.2 Basics

Database – A database is a collection of similar and related data, that can be changed and displayed according to the user's preferences. Using the above database window we can see that all of the Client information has similar types of data. They all have company Names, Contact Names and Phone Numbers etc. Therefore we call the collection of all this data a "Database".

Record – A record is a collection of data that is related and must be kept together. An example is Stephen C. works for First DreamWorks Inc. and his phone number is 555-5555x555. All this information is related to Stephen and should be maintained in the same place. All the data in a Record is different but related.

Field – A Field is a Column of similar data from different Records. The Name Column represents a Field. All data in a Field is similar in type.

Field Titles – Field titles give you a brief description of the data displayed below and are displayed at the top of each column. If you want to change the order of the columns, highlight the column by clicking on the field title that you would like to move, then simply drag and drop the field into its new position. All the data in the column will be moved with the field title. When you are displaying the Event Log window, right-clicking on a column changes the sort order of the events.

Field Separators –Field separators are the vertical lines separating the columns. If you want to change the width of the column, click and hold onto the Field separator that is to the right of the column you would like to change. Move the mouse to the left or right to change the width of the column. When you have reached the desired width of the field, release the mouse.

2.3 Database Window Conponents

2.3.1 Title Bar

Shows the Title of the current database

2.3.2 Window Control Buttons

These standard Windows control buttons are used to minimize, maximize and restore the window size. The X button closes the window. For more information on these controls, Please consult you Windows95/NT documentation.

2.3.3 First “Record” Button

Clicking this button causes the first record in the database to be the Highlighted record.

2.3.4 Previous “Record” Button

Clicking this button will move the highlight bar to the previous record. If the Highlight bar is currently over the first record in the list, clicking this button will have no effect.

2.3.5 Next “Record” Button

Clicking this button moves the highlight bar to the next record in the database. If the Highlight bar is currently over the last record, clicking this button will have no effect.

2.3.6 Last “Record” Button

Clicking this button causes the last record in the database to be the Highlighted record.

2.3.7 Add “Record” Button

Press this button to add a new record to the database. This will open a new window for data entry. Some of the fields in the data entry window may already be filled in for you. To save the new data that you enter press the Okay button. To discard the new data press the Cancel button.

2.3.8 Delete “Record” Button

Press this button to delete a record from the database, you must first select the record by highlighting it, then click the Delete Record Button. KEYLOG TRACKER™ will prompt you to confirm that you do indeed want to delete this record thus insuring the safety of your data.

2.3.9 Edit “Record” Button

This button is used to make changes to the data contained in the highlighted record. Another window will launch that contains all the data from the highlighted record. To save the changes that you have made press the Okay button. To discard the changes press the Cancel button. You can not change any information in the database from the “Database View” window. We have designed KEYLOG TRACKER™ this way so that you will not accidentally destroy the valuable information you have entered or captured.

2.3.10 Highlighted Client "Record"

This is the active record or the record that is selected or has the 'focus'. If you want to highlight a different record, simply point to the data that you want to change and click on it. This will move the Highlight bar to the record that you have chosen. You may also use the arrow buttons to select different records

2.3.11 Client "Record"

The un-highlighted Records are the other records in the database. In order to work with a specific record you must first select the record by highlighting it.

2.4 Communications Error

The most common cause of this error message is a loss of communications with the 4025TR. If you receive this error, please ensure that your cable is attached to the 4025TR and an available working COM port on your computer. KeyLog TRACKER™ uses an internal communications protocol to "talk" to the 4025TR and will override the Windows 95 system settings. To tell KeyLog TRACKER™ which COM port you are using with the 4025TR, see ("Options").

3. Buttons & Status Bar

3.1 Button & Status Bar Descriptions

TIP: Holding the mouse over the button while working in KeyLog TRACKER™, will cause a Help balloon to Popup and give you a good idea as to what the selected button does

Button Bar when not capturing events.

 New Project Button (see **New Project Information Window** for more information)

 Open Project Button (see **File Menu** for more information)

 Close Project Button (see **File Menu** for more information)

 Reports Button (see **Reports Window** for more information)

 Project Configuration Button (see **Project Configuration Window** for more information)

 VTRoll Button (see **VT Rolls Window** for more information)

 Event Button (see **Event Log Window** for more information)

 Production/Daily Roll Button (see **Production/Daily Roll Window** for more information)

 Encoder Status Button (see **Encoder Status Window** for more information)

 Start Capture Button (see **Project Configuration-Capture** for more information)

 Start/Stop Button (see **Project Configuration-Codes Settings** for more information)

 ARRI Film Time Code Jam Button

 Matrix Time Code Jam Button

 Load Film Button (see **Load Film** for more information)

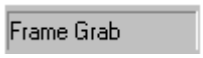
 Character Windows On/Off Button (*see **Tools Menu** for more information*)

Button Bar when capturing events.

 Stop Capture Button (see **Project Configuration-Capture** for more information)

Status Bar

User ID Status (*see **Login Window** for more information*)



Capture Mode Status (*see **Project Configuration-Capture** for more information*)

Status LED Descriptions

There are 11 LED status indicators in the middle of the status bar, which show operational status of the 4025TR at a glance.

Gen-Lock:

Indicates that the unit is not receiving any Gen-Lock video.

Indicates that the unit is properly Gen-locked to a PAL video reference. If it is blinking, it indicates that the PAL video standard is selected, but a valid PAL video reference is not present.

Indicates that the unit is properly Gen-locked to a NTSC video reference. If it is blinking, it indicates that the NTSC video standard is selected, but a valid NTSC video reference is not present.

Telecine

Indicates that the 4025TR has detected the presence of a valid film frame pulse from the telecine. If the 4025TR is not set for the same video standard and film transfer rate as the incoming film frame pulse, this LED will be OFF.

On some telecines, the FRAME indicator will go off when the telecine is not in Play.

Indicates that the telecine has achieved a stable play speed and that the 4025TR is properly locked to the telecine's transfer sequence.

To ensure proper operation of the 4025TR, the GEN-LOCK, FRAME & LOCK indicators MUST be solidly on during the film to tape transfer.

System

When it is Green it indicates that KEYLOG TRACKER™ is receiving data from the 4025TR.

When it is Yellow it indicates that KEYLOG TRACKER™ has suspended communications temporarily with the 4025TR.

When it is Red it indicates that KeyLog TRACKER™ is not communicating with the 4025TR. This may be because the 4025TR is in Local Mode or there is a cabling problem.

Indicates that the 4025TR has sent a special Data Log event packet to KEYLOG TRACKER™.

Film Rate/Pulldown

Indicates that the telecine is set to transfer one film frame to each video frame. i.e. NTSC - 30 frames per second, PAL - 25 frames per second.

Indicates that the telecine is set to transfer for a 24 film frame per second transfer to NTSC video.

Time Code In/Out

Indicates that the LTC reader is reading valid time code.

Indicates that the VITC Reader is reading valid time code.

Indicates that the VITC Generator's keyer is turned on.

Indicates that the Video timecode is slaved to the LTC or VITC reader.

When one of the ARRI or Matrix time code modes is selected, it indicates that the Audio timecode is slaved to the ARRI or Matrix time code readers.

KeyKode

Indicates that a valid KeyKode data record has been received from an external KeyKode reader system. This LED will normally be on when KeyKode data is being received and is updating the edge numbers.

It will blink for each KeyKode data packet received when the Edge numbers are not being updated. This usually indicates that the head offset has not been learned, or that KK JAM is set to NEVER. The KK LED will also blink when the 4025TR detects a KeyKode discontinuity.

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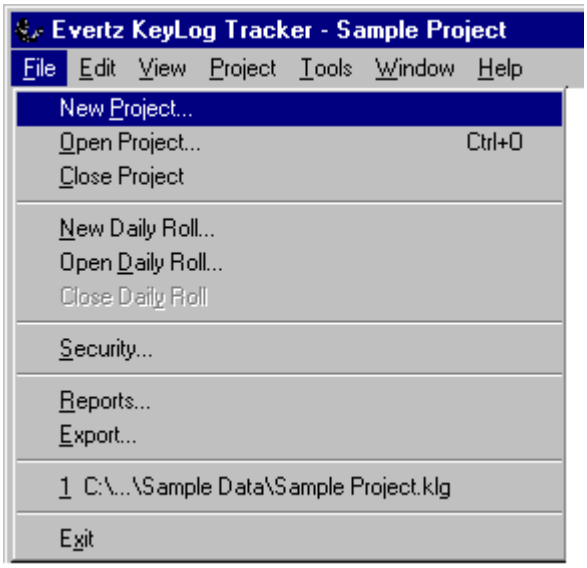
4. Menus

4.1 Menu Overview

The KeyLog TRACKER™ menu system is comprised of seven drop down menus. Each menus is described in further detail in its own section.

File: Refer to the topic "**File Menu**".
Edit: Refer to the topic "**Edit Menu**".
View: Refer to the topic "**View Menu**".
Project: Refer to the topic "**Project Menu**".
Tools: Refer to the topic "**Tools Menu**".
Window: Refer to the topic "**Windows Menu**".
Help: Refer to the topic "**Help Menu**".

4.2 File Menu



New Project: Creates a new Project/Production . KeyLog TRACKER™ will prompt you for a new file name and the location that you would like your project saved. To create the project in a different folder, click a different drive in the Save in box, or double-click a different folder in the folder list. To create the project in a new folder, click the Create New Folder button. In the File name box, type a name for the project. Then press Save to create the new project. KeyLog TRACKER™ opens the Project Information Windowto allow you to choose the project's client and configuration.

Open Project: Opens an existing project file. KeyLog TRACKER™ will prompt you for the project name that you would like to open. In the folder list, double-click folders until you open the folder that contains the project you want. Double-click the document you want to open. KeyLog TRACKER™ will prompt you to confirm the project's configuration prior to sending the settings to the 4025TR. Verify that the configuration information is correct and then click the OK button. Opening another Project File or creating a New Project File will cause the first file to close

Close Project: Closes the current project. KeyLog TRACKER™ will automatically save the configuration information with the project data.

New Daily File: Creates a new Daily Roll File. Each Daily File contains production data related to one roll of film. KeyLog TRACKER™ will prompt you for a new file name and the location that you would like your Daily Roll saved. To create the Daily Roll in a different folder, click a different drive in the Save in box, or double-click a different folder in the folder list. To create the Daily Roll in a new folder, click the Create New Folder button. In the File name box, type a name for the Daily Roll, then press the SAVE button to create the new Daily Roll. KeyLog TRACKER™ will open an empty Daily Roll Window.

Open Daily Roll: Opens a previously created Daily Roll file. KeyLog TRACKER™ will open the Daily Roll Window to display the contents of the Daily Roll. Opening another Daily File or creating a New Daily File will cause the first file to close.

Close Daily Roll: Closes the currently open Daily Roll file and automatically saves any changes that were made.

***Note**: Only one project and only one Daily Roll file may be open in KeyLog TRACKER™ at any one time.

Security: Opens the Security window that is used to set up users and or to change existing passwords. Only the ADMIN user can setup new users or change passwords. To change your own password, see "Change Password Window".

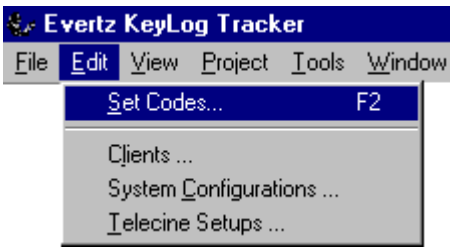
Reports: Opens the Reports interface window and allow you to choose from a variety of reporting layouts.

Export: This option allows you to export data for interchange with non-linear editing systems.

List of Recently Used Projects: Shows the last four projects that were used by the current user. Clicking on one of the project names re-opens the project. When the program is started for the first time, the recently used project list will be blank.

Exit: Select this option to close KeyLog TRACKER™. If you have selected "Save Desktop on Exit", your current desktop layout will be saved and recalled the next time you start KeyLog TRACKER™.

4.3 Edit Menu



Set Codes: Opens The "**Set Time Codes**" window that allows you to manually enter Video Time Code and User Bits, KeyKode Numbers, Audio Time Code and User Bits, or Ink Code values.

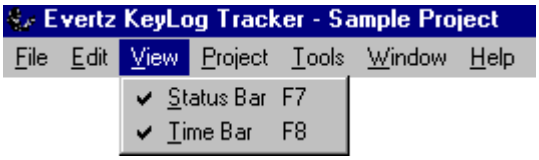
Clients : Opens the "**Clients**" window. This window provides a space for you to record the important aspects of the client information that relates to the current project. Information such as Client Name, Contact Phone and Fax number can be stored, viewed, and edited from this area.

System Configurations: Opens the "**System Configurations**" window. This window allows you to create multiple system configurations. These configurations can be created and stored for use when you create a "New" project.

Telecine Setups: Opens the "**Telecine Setups**" window. This window allows you to create multiple telecine setups. Each Telecine setup saves a set of telecine interface parameters including Telecine type, biphase rate, frame pulse handling, KeyKode head offsets, Video and Film Rate delays, etc.

These telecine setups can be selected in the **Add/Edit System Configurations Window** or the **Project Configuration**.

4.4 View Menu



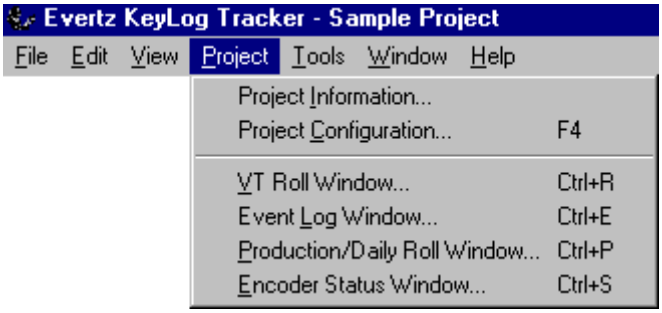
Status Bar: Turns the Status Bar On or Off. To display the Status Bar, click on the menu option. The status bar will appear at the bottom of the KeyLog TRACKER™ main window and a check mark will appear beside the menu option. To turn off the Status Bar, click on the menu option again.

Time Bar: Turns the Time Bar On or Off. To display the Time Bar, click on the menu option. The Time Bar will appear under the button bar, at the top of the main Evertz KeyLog TRACKER™ window and a check mark will appear beside the menu option. To turn off the Time Bar, click on the menu option again.

The Time Bar is used to display the Real Time data from the 4025TR such as Video Time Code and User Bits, KeyKode, Audio Time Code and User Bits, or Ink Code. To configure the way that the data is displayed in this area, go to the **Tools** drop down menu and select Options. Then click the **Time Display** Tab.

4.5 Project Menu

All items on this menu option will be grayed out when there is no project open.



Project Information: Use this option to enter descriptive and client information for the current project file.

Project Configuration: Use this option to set the configuration options for the current project file.

Selecting any of the following menu choices will open the window if it is closed or set the window to be the active window.

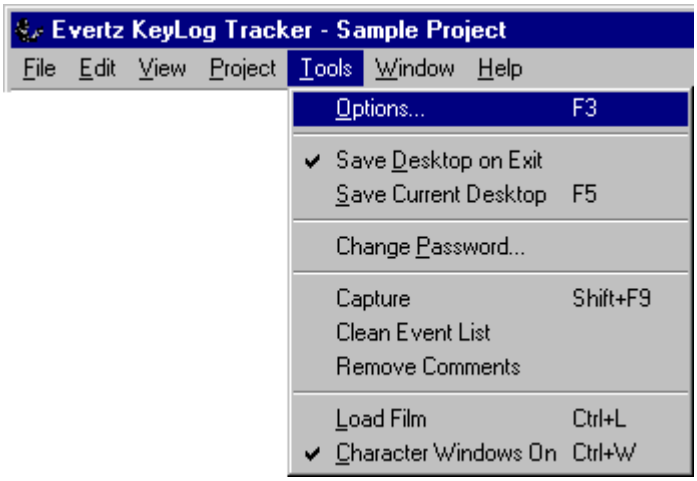
VT Roll Window: Shows a list of all Video Tape Rolls associated with the project.

Event Log Window: Shows a log of all event data for the project.

Production/Daily Roll Window: Shows Production data related to the next event or shows the open Daily Roll production data.

Encoder Status Window: Shows hardware status from the Film Footage Encoder.

4.6 Tools Menu



Options: Sets up the general options such as Facility name, KeyLog TRACKER™ COM port, Time bar Configuration etc. The Options menu item is also used to register optional KeyLog TRACKER™ software such as 3 perf and Film Time Code options.

Save Desktop on Exit: Enables and disables the "Save Desktop on Exit" option. To enable the "Save Desktop on Exit" option click on this menu item. A check mark will appear next to the menu item. To disable the "Save Desktop on Exit" option click on this menu item again. A check mark next to the menu item will disappear. When "Save Desktop on Exit" is enabled KeyLog TRACKER™ will save all the current open window sizes and positions when you close KeyLog TRACKER™. The next time you start KeyLog TRACKER™, all of these saved settings will be restored.

Save Current Desktop: Choosing this menu option will immediately save your current desktop layout. When you restart KeyLog TRACKER™, all of your window placement and sizes will be restored from this saved file.

TIP: Set your desktop the way you most often work, then click Save Current Desktop, and disable the Save Desktop on Exit. KeyLog TRACKER™ will always start with your saved settings, so even if you change something and close KeyLog TRACKER™ you will not lose your saved settings. KeyLog TRACKER™ saves a different desktop configuration for each user.

Change Password: Opens the "Change Password Window" which is used to change the password for the current user.

Capture: Places KeyLog TRACKER™ in Capture Mode. KeyLog TRACKER™ grabs Video and Audio time codes, KeyKode and Ink numbers to mark the beginning and end of a scene, camera roll, or other user defined element. In capture mode, most of the menu items and toolbar buttons are disabled. See the Project Configuration - Capture Settings and Capture Modes help items for information on configuring the capture modes.

Clean Event List: Removes overlaps in the Video time codes values for a particular VT Roll. Captured KeyKode, audio time code and ink numbers are trimmed accordingly. The user is prompted each time an overlap is detected.

Remove Comments: When the "Capture Event Reason in Comments" check box on the Project Configuration - Capture Tab is checked, information about how the event was captured is stored in the comments field. Often it is desirable to remove these comments before sending the event data to the client.

***Note**: All comments including those entered manually by the user will be removed by using this feature.

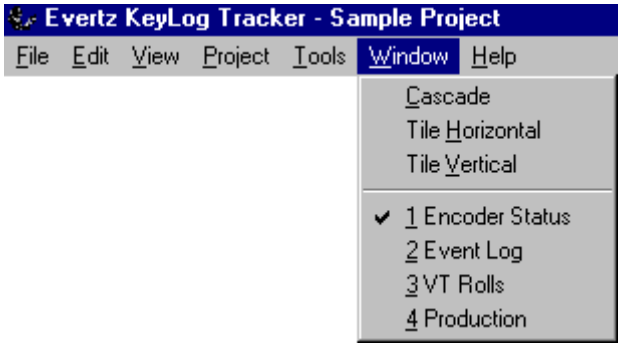
Load Film: Use the following procedure to calibrate the 4025TR's framing reference each time a new film is loaded on the telecine, or when the telecine framing changes due to splices, panning or zooming, etc.

For the 4025TR Film Footage Encoder to detect where the film frame boundaries are (with respect to the biphase pulses and the bar-code numbers), it is necessary to properly calibrate it's framing.

After you stop the telecine with the film properly framed in the gate, press the **Load Film** Button or select **Load Film** from the **Tools** Menu.

Character Windows On: Toggles the 4025TR character windows on and off. When the characters are on, a check is located beside this menu item. Selecting this menu item is equivalent to pressing the Character On/Off button on the toolbar.

4.7 Window Menu



Cascade: Arranges the currently displayed windows, one on top of the other from top left to bottom right, leaving only the title bars visible on the underlying windows.

Tile Horizontal: Tiles all the currently displayed screens Horizontally down the screen. All screens are scaled to the same size.

Tile Vertical: Tiles all the currently displayed screens Vertically across the screen. All screens are scaled to the same size.

Encoder Status, Event Log, VT Rolls, Production: The window names shown are currently open on the desktop. The window name with the check mark is currently the active window. To make a window active choose it on the Window menu, or just click the mouse anywhere in the window.

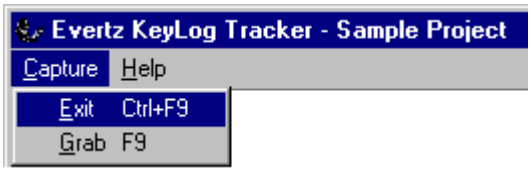
4.8 Help Menu

Contents: Displays the "Table of Contents" of the KeyLog TRACKER™ Help System.

About Evertz KeyLog TRACKER™: Displays a message box showing the current version number of the KeyLog TRACKER™ program.

4.9 Capture Menu

The Capture menu is only visible when you are capturing data. See the Capture Modes help item for more information about setting up KeyLog TRACKER™ for capturing.



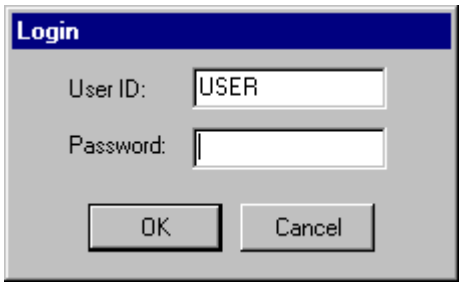
Exit: Terminates the capture mode. Pressing **Ctrl+F9** key can also perform this action.

Grab: Issues a Frame Grab request to the 4025TR to capture the In or Out point of an event. Pressing **Alt-G** or the **F9** key can also perform this action.

5. System Setup

5.1 Login Window

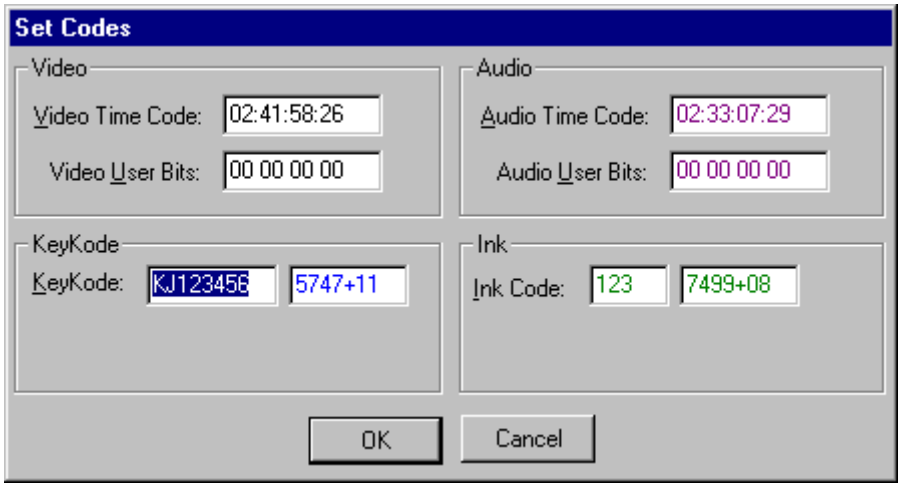
The Login Window is used to enter the user ID and password for the current user when KeyLog TRACKER™ is started.



KeyLog TRACKER™ checks in its security database to make sure that the user is authorized, and that the correct password has been entered. To add new users or change passwords, the System Administrator (ADMIN user Id) can access the Security Window.

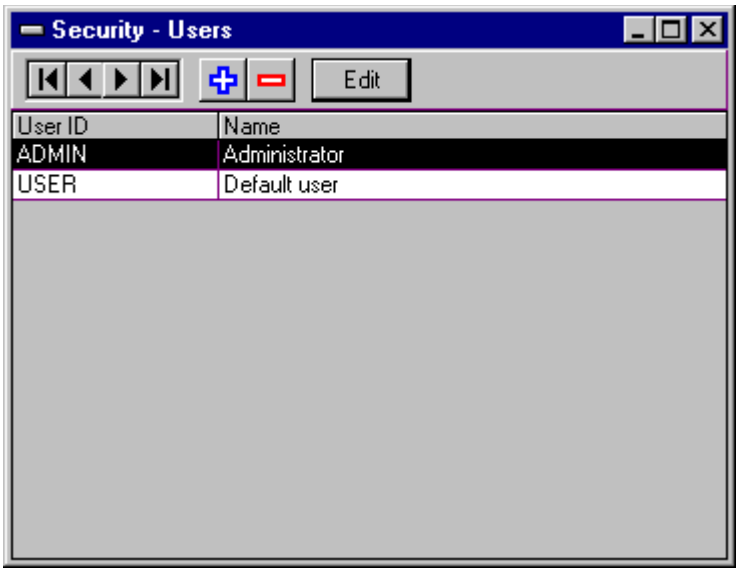
5.2 Set Codes Window

This window (**Edit** menu, **Set Codes…** command) allows you to enter Video and Audio Time Code, KeyKode, and Ink Code numbers into the 4025TR Film Footage Encoder. If the values are being transferred from one of the time code readers, the respective entry box will be disabled.



5.3 Security Window

The Security window (**File** menu, **Security…**command) shows a list of all the currently Authorized users with their User IDs and Names.

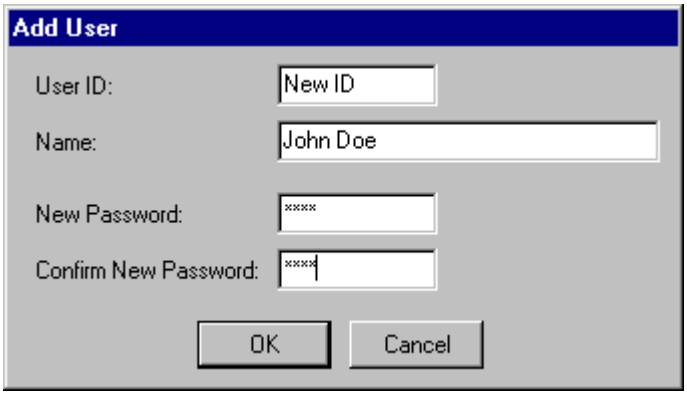


- **To enter a new user simply click on the blue plus sign** 
- **To delete the currently highlighted user press the**  **button. You will be prompted to confirm your deletion.**

To edit an existing user record, highlight the desired record and click to edit button 

.

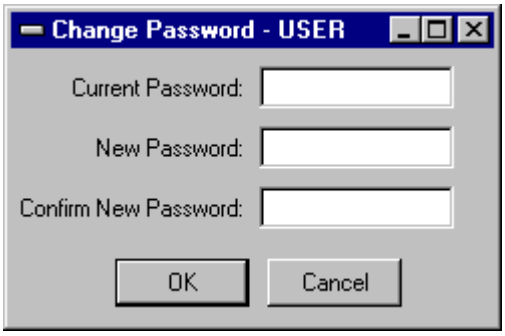
The **Add/Edit User** window allows you to add new users, change passwords, User IDs, or Names. You must re-enter your New Password into the Confirm New Password input area. This ensures that you do indeed want to change your password and will not allow you or anyone else to accidentally erase your old password. The information in these boxes are encrypted and will appear as "**********" in the view window.



For Database control information Please see "Databases and Records"

5.4 Change Password Window

The Change Password Window (**Tools** menu, **Change Password** command) is used to change the password for the current user.

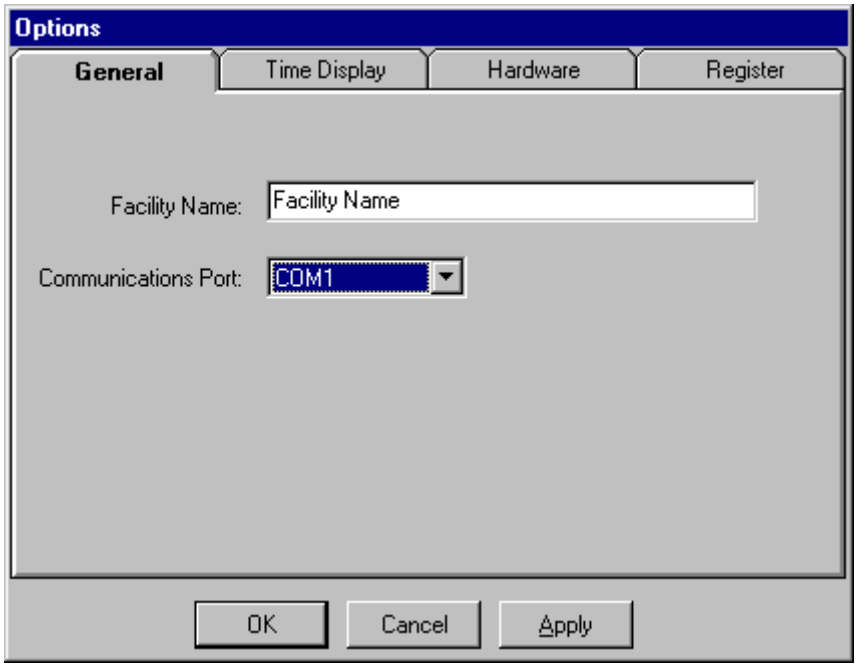


Enter your current password into the Current Password input area. Enter the new password you would like into the New Password input area. You must then re-enter your new password into the Confirm New Password input area. This ensures that you do indeed want to change your password and will not allow you or anyone else to accidentally erase your old password. The information in these boxes is encrypted and will appear as (*********) in the window. Press the  button to accept the new password. The password will be used the next time that you Login to the program.

5.5 Options Window

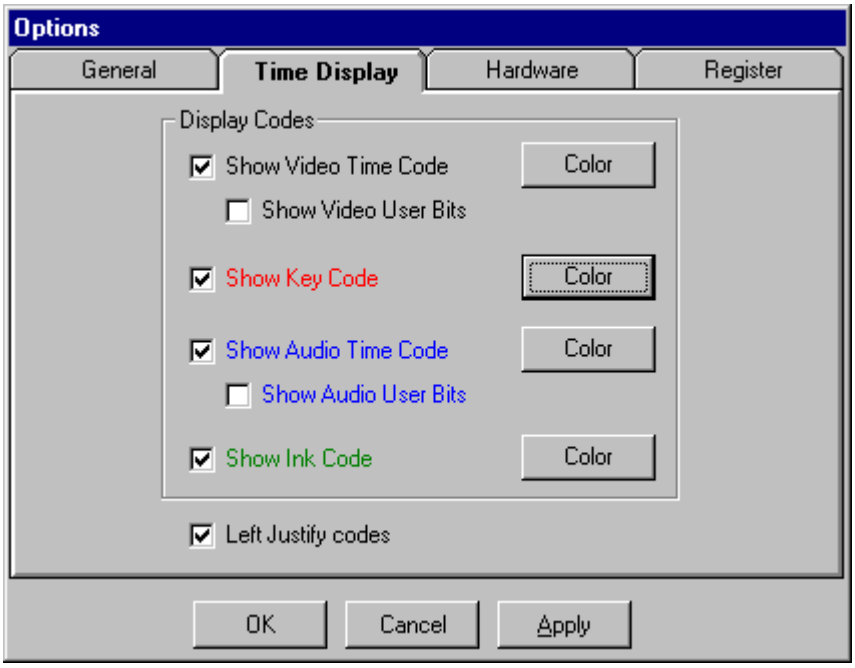
The Options window (**Tools** menu, **Options** command) is a four tab window that controls a variety of miscellaneous options. To change to a different option category, click on the desired tab with your mouse.

General:



Facility Name: This input area allows you to enter your Facility Name. This information is displayed on KeyLog TRACKER™'s reports.
Communications Port: Choose the Communications Port you are using to communicate with the 4025TR Film Footage Encoder. Select the port from the drop down list of available ports by clicking on the down arrow, highlight the desired port and click to select your choice.

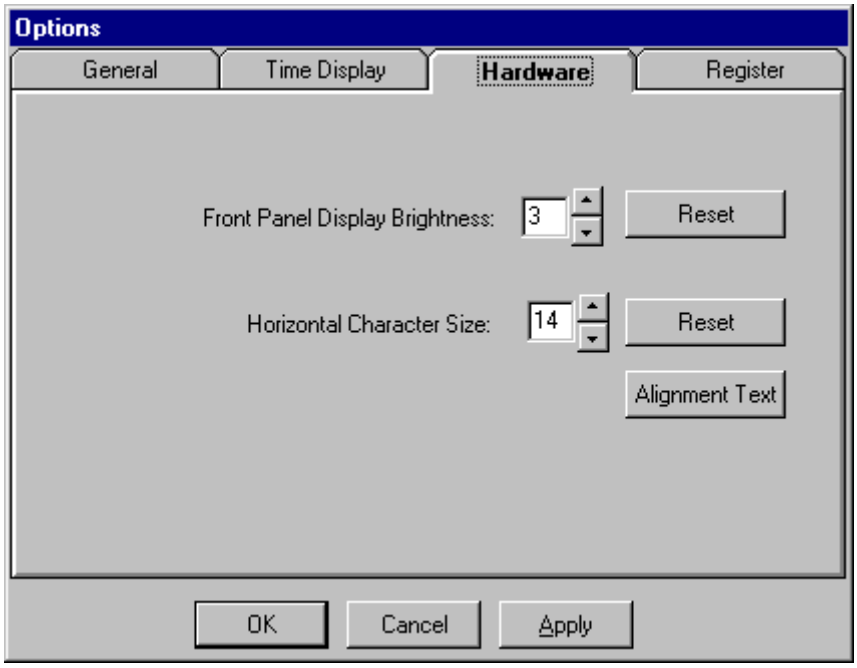
Time Display:



The Time Display tab allows you to configure the appearance of the Time bar, located beneath the button bar. Click on the box beside each item to choose what you want displayed on the Time bar. Items with a check mark in the box will be displayed. To change the color of one of the real time displays click on the button marked "**Color**" beside the display item you want to change. Select the color you want and then click the "**OK**" button. The Display item text will be shown in the same color you selected.

Enabling the Left Justify codes option will force all of the displayed codes to display from the left-hand side of the screen. This option is handy if your screen resolution is set to 640 x 480, and you have opted to hide some of the Display items.

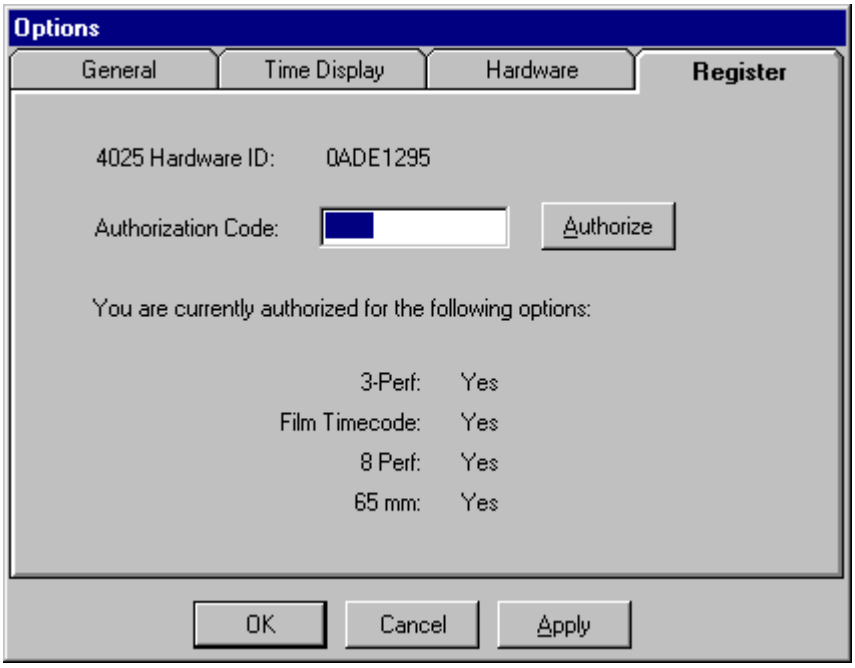
Hardware



The Hardware tab allows you to control miscellaneous hardware setups in the 4025TR Film Footage Encoder

- **Front Panel Display Brightness:** Sets the display brightness of the 4025TR Film Footage Encoder. Press the Reset Button to set the Display brightness to the factory default.
- **Horizontal Character Size:** Sets the Horizontal size of the characters that the 4025TR Film Footage Encoder displays on the video screen. . Press the Reset Button to set the Display brightness to the factory default. Press the Alignment Test button to display an Alignment test pattern on the character inserter screen.

Register



When you purchase options for your KeyLog TRACKER™/4025TR, you will be required to enter an authorization code to activate them. Each 4025TR Film Footage Encoder has a hardware ID that is used to generate a unique authorization code for the combination of options that your system has.

In order to purchase optional software for your system contact the factory and be prepared to give the Hardware ID shown on this screen, and a list of the options currently enabled in your system and a list of the optional software you would like to purchase. When you have purchased new optional features the factory will supply you with an 8-digit authorization code. To enable the optional software, enter the authorization code supplied from the factory and click the “Authorize” button. The new options will be shown on this screen when they are enabled. You will have to close KeyLog TRACKER™ and re-open it to activate the optional software.

The 3 perf option enables the system to work with 35mm film shot in the 3 perf per frame film format.

The 8 perf option enables the system to work with 35mm film shot in the 8 perf per frame film format, also known as Vista Vision.

The 65 mm option enables the system to work with 65/70mm film shot in 5, 8, 10 and 15 perf per frame film format.

The Film Timecode option enables the system to work with ARRI and Matrix film timecode. Additional modes are added which allow the user to automatically synchronize Audio to code being read from the film.

5.6 Load Film

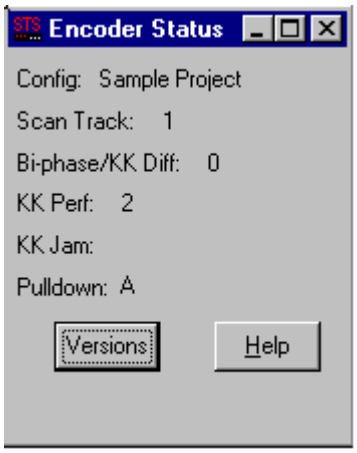
Load Film: Use the following procedure to calibrate the 4025TR’s framing reference each time a new film is loaded on the telecine, or when the telecine framing changes due to splices, panning or zooming, etc.

For the 4025TR Film Footage Encoder to detect where the film frame boundaries are (with respect to the biphase pulses and the bar-code numbers), it is necessary to properly calibrate it's framing.

After you stop the telecine with the film properly framed in the gate, press the **Load Film**  Button or select **Load Film** from the **Tools** Menu.

5.7 Encoder Status Window

The Encoder Status window (**Project** menu, **Encoder Status Window** command) shows status information from the 4025TR Film Footage Encoder.



- **Config:** shows the name of the last configuration which was sent to the 4025TR
- **Scan Track:** shows how much the film is moving in the gate due to the effect of Scantrack on Cintel telecines. When the telecine is first put into the PLAY mode, the **Scan Track** value should be approximately 00. When Scantrack is enabled on your Cintel Telecine, **the Scan Track** value will change gradually, with expected values of less than ±19.

On CCD scanners such as Philips telecines, this value should be relatively constant and should be in the 15 to 18 range when in the locked PLAY condition.

On all telecines, if the **Scan Track** value exceeds ±19, an error in the biphase based numbers is likely. This may be due to a telecine with excessive Scantrack settings, or to improper centering of the film when it is loaded onto the telecine. See "Load Film".

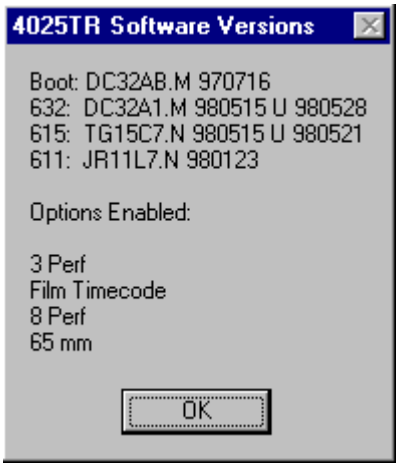
- **Biphase/KK Difference:** Indicates the number of film frame of difference between the biphase based edge numbers, and the barcode numbers being read. If the installation is correct, this value will normally be 00.
- **KK Perf:** Shows the perf type (the perf that the barcode reference dot lines up with), of the currently running film stock. This value may change if a splice is encountered or if the 4025TR's film centering is wrong. On 35 mm film, perf 1 is at the head of the frame, perf 4 is at the tail of the frame. On 35 mm 3 perf film the KK Perf value will change every foot. On 16 mm film the perf value will always show 1.
- **KK Jam:** Indicates the reason that the 4025TR last updated the biphase based edge numbers from the KeyKode reader.
- **Pulldown:** Indicates the film to video pulldown relationship in 24 FPS NTSC transfers. This value is measured at the first film frame of each foot, in video field 2.

The 2/3 sequence creates four types of picture frames, called A, B, C, and D. The 'A' frame is always a f1/f2 picture, the 'B' frame is a f1/f2/f1 picture, the 'C' frame is a f2/f1 picture, and the 'D' frame is a f2/f1/f2 picture. **Pulldown** shows whether film frame 00 of each foot is A, B, C, or D type. An underscore (_) shows video frames comprised of two different film frame images.

During 30 frame per second transfers in NTSC, and 25 frame per second transfers in PAL, the **Pulldown** will show A for field 1 dominant transfers, and C for field 2 dominant transfers.

The 

button displays the firmware versions of each of the modules in the 4025TR Film Footage Encoder. It also shows which options are enabled.



The 

button displays the most recent error messages from each of the modules in the 4025TR Film Footage Encoder.

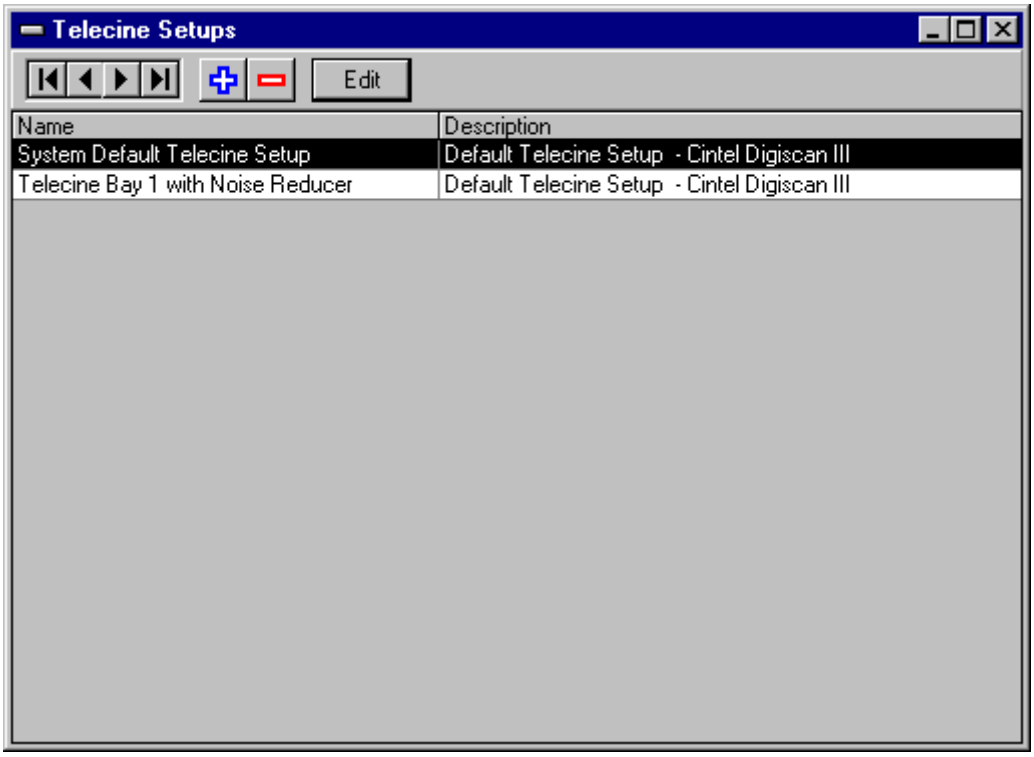
5.8 Telecine

5.8.1 Telecine Setups Window

The Telecine Setups window (**Edit** menu, **Telecine Setup…** command) is used to change previously saved telecine setups or create a new setup. You must first close an open project before you can edit or create telecine setups. (**File** menu, **Close Project** command)

Each telecine setup is a collection of parameters that configure the 4025TR Film Footage Encoder to interface correctly to your telecine. These setups control items in the 4025TR such as Telecine model, type of frame pulse handling, biphase rate, pre store delays in the telecine, video path delays, KeyKode Head offsets, etc. Various sets of these parameters may be saved to quickly reconfigure the Film Footage Encoder for differences in your telecine setup up such as whether noise reducers are in the

system or not. When you create a system configuration (see System Configuration Window) you select which Telecine setup you wish to use. All of the configured telecine parameters are automatically part of the configuration. If you change a telecine setup there is no need to re-import it back into the configuration.



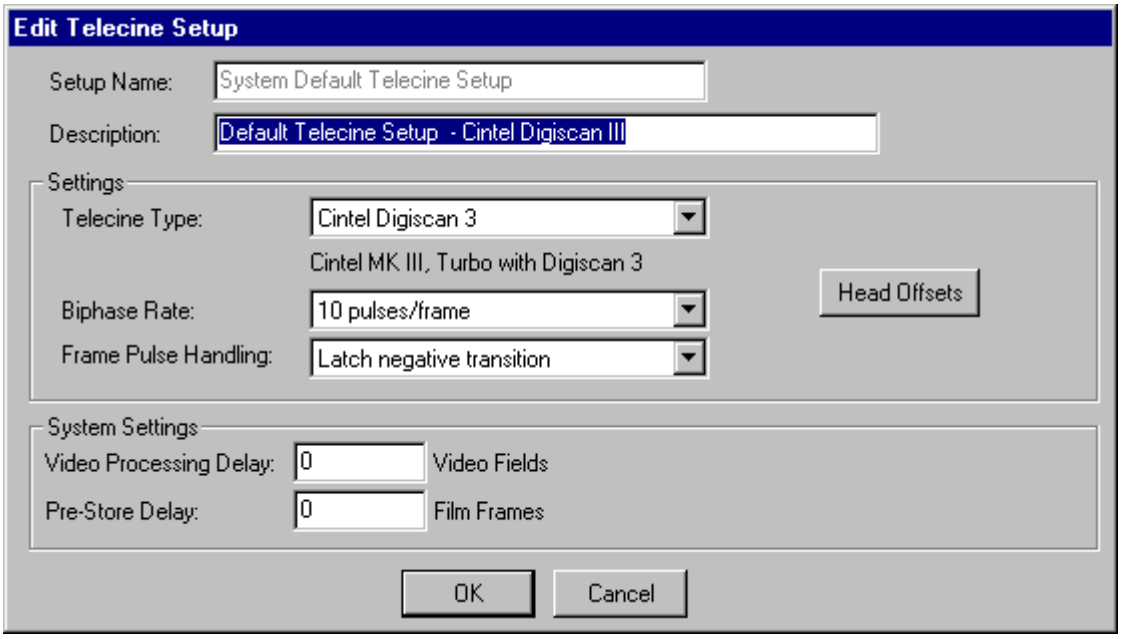
To create a new Telecine Setup click on the blue plus sign . The Setup that is highlighted will be copied into the new Setup. The "Edit Telecine Setup Window" allows you to configure the new telecine setup and save it.

To delete a Telecine Setup, select the Setup from the list by using the arrow buttons or by clicking with the mouse. Then press the button. You will be prompted to confirm that you want to delete this Setup.

To change an existing Telecine Setup, select the Setup from the list by using the arrow buttons or by clicking with the mouse. Then click the Edit button or double click the entry that you wish to edit. The Edit Telecine Setup Window allows you to modify the Telecine Setup and save it again.

5.8.2 Edit Telecine Setup Window

The Edit Telecine Setup window allows you to modify various parameters within a Telecine setup. **You should always retest the accuracy of the system when you create a new Telecine setup.**



- **Setup name:** Enter an appropriate name for your Telecine Setup
- **Description:** KeyLog TRACKER™ provides you with an area to place a longer description of the setup.
- **Settings**
  - **Telecine Type:** Choose the Telecine model that best describes the telecine you are using. A longer description of the Telecine model will be shown under the Telecine type window.
  - **Biphase Rate:** Choose the correct rate for the biphase signal you have connected to the 4025TR. If you have a choice, select the highest rate available.
  - **Frame Pulse Handling:** Choose the correct type of Frame pulse handling for the telecine model you have. The default frame handling for each telecine model is automatically chosen when you change the telecine type.
  -
- **System Settings**
  - **Video Processing Delay:** Enter the number of fields of delay that the video encounters after it leaves the telecine frame store and before it enters the 4025TR. This value is used to compensate for delays caused by noise reducers, digital to analog encoders, etc.

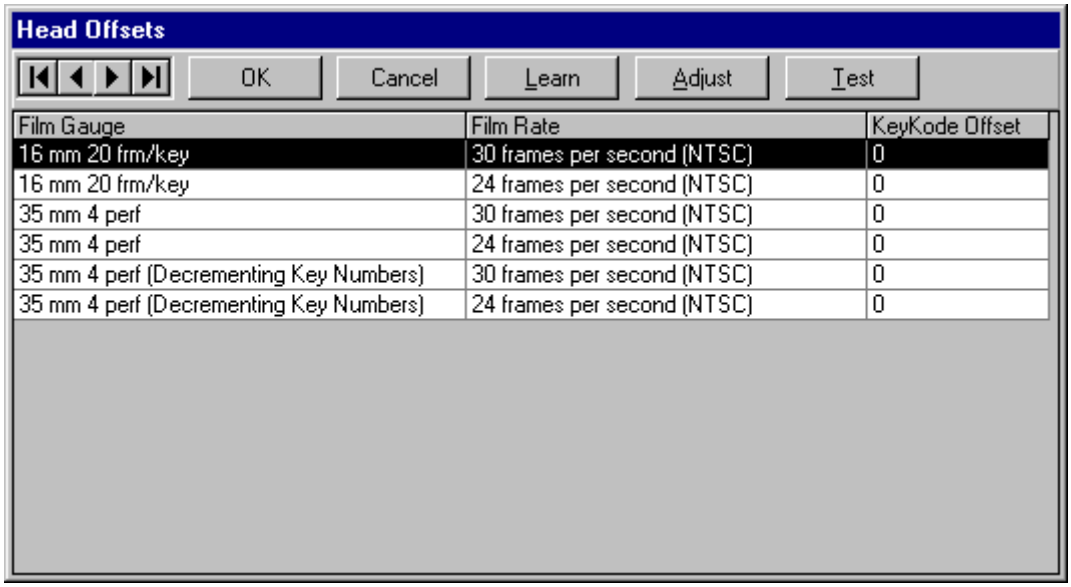
    Tip: If you routinely disable and enable your noise reducer then create two different telecine setups, one with a delay and the other without. To do this first set up the correct parameters for the setup without the noise reducer. Learn the head offsets, and test the accuracy of the system. Then create a new setup by highlighting your original setup in the **Telecine Setup Window…** Enter the correct video delay parameter in the new setup and save it.

  - **Pre-Store Delay:** Enter the number of film frames of delay before the telecine frame store. This value is used to compensate for delays caused by optional devices such as grain reducers, 'Clearview', image rotational devices, etc. If you do not have any optional 'pre-store' devices installed in your telecine then this value should normally be zero. Delays that are native to the telecine are already compensated for when you choose the telecine type.

- **Buttons:**
  - OK — Save the changes that you made in the Telecine Setup. The "Edit Telecine Setups Window" closes and you are returned to the Telecine Setups Window.
  - Cancel — Cancel any changes made to the Telecine Setup. The "Edit Telecine Setups Window" closes and you are returned to the Telecine Setups Window.

5.8.3 Head Offsets Window

The Head Offset window presents a list of all the head offset values for the current video standard. Use the arrow buttons or mouse to select the head offset you want to change/learn.



To learn the head offset press the Learn button. The Head offset learning wizard will begin, walking you through the head offset learning process. See "Learn Head Offsets"

To manually adjust the head offset, press the Adjust button. See "Adjust Head Offsets".

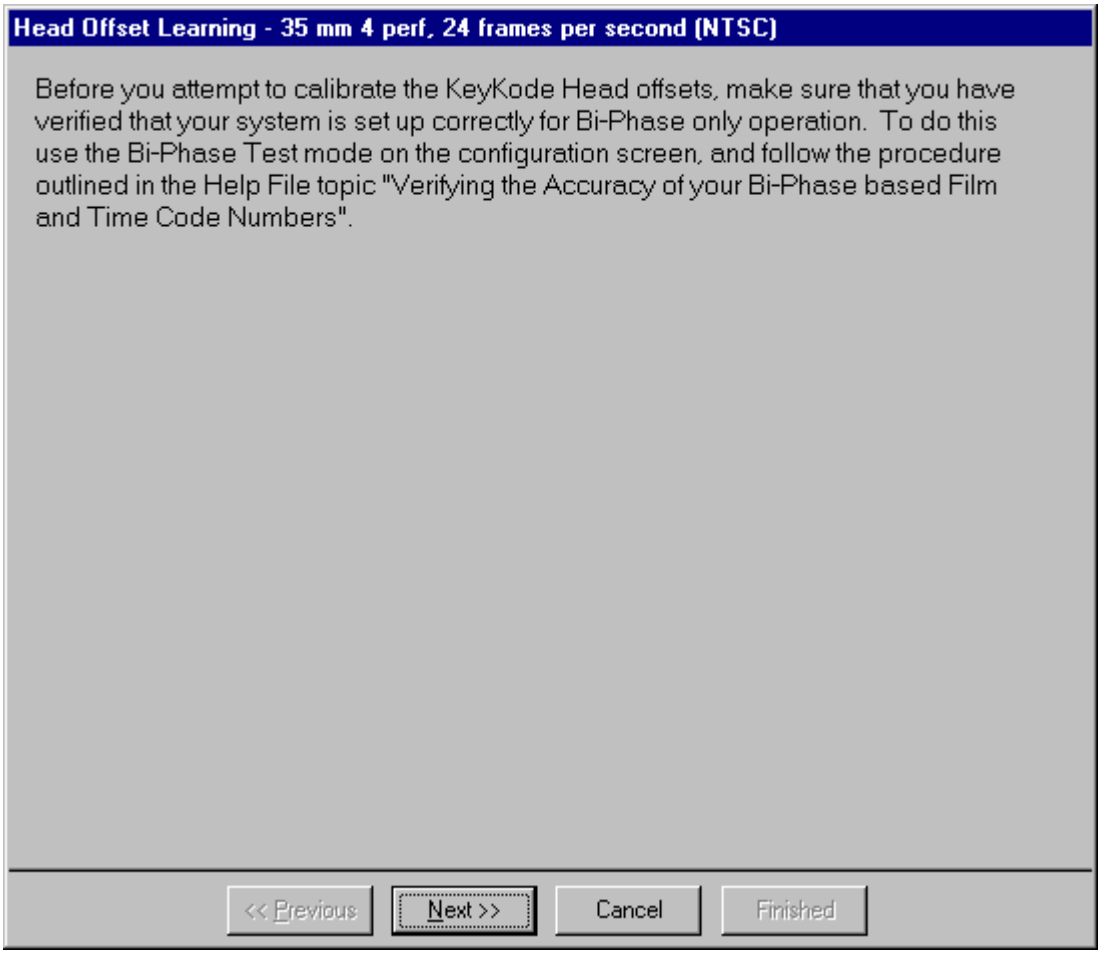
To test the head offset accuracy, press the Test button. This will automatically configure the 4025TR in the correct mode to run the KeyKode accuracy test.

5.8.4 Learn Head Offsets

The Learn Head Offset wizard is a series of several screens that guide you through the KeyKode Head offset learning process. Each Screen gives you instructions for the next step in the head offset learning process.

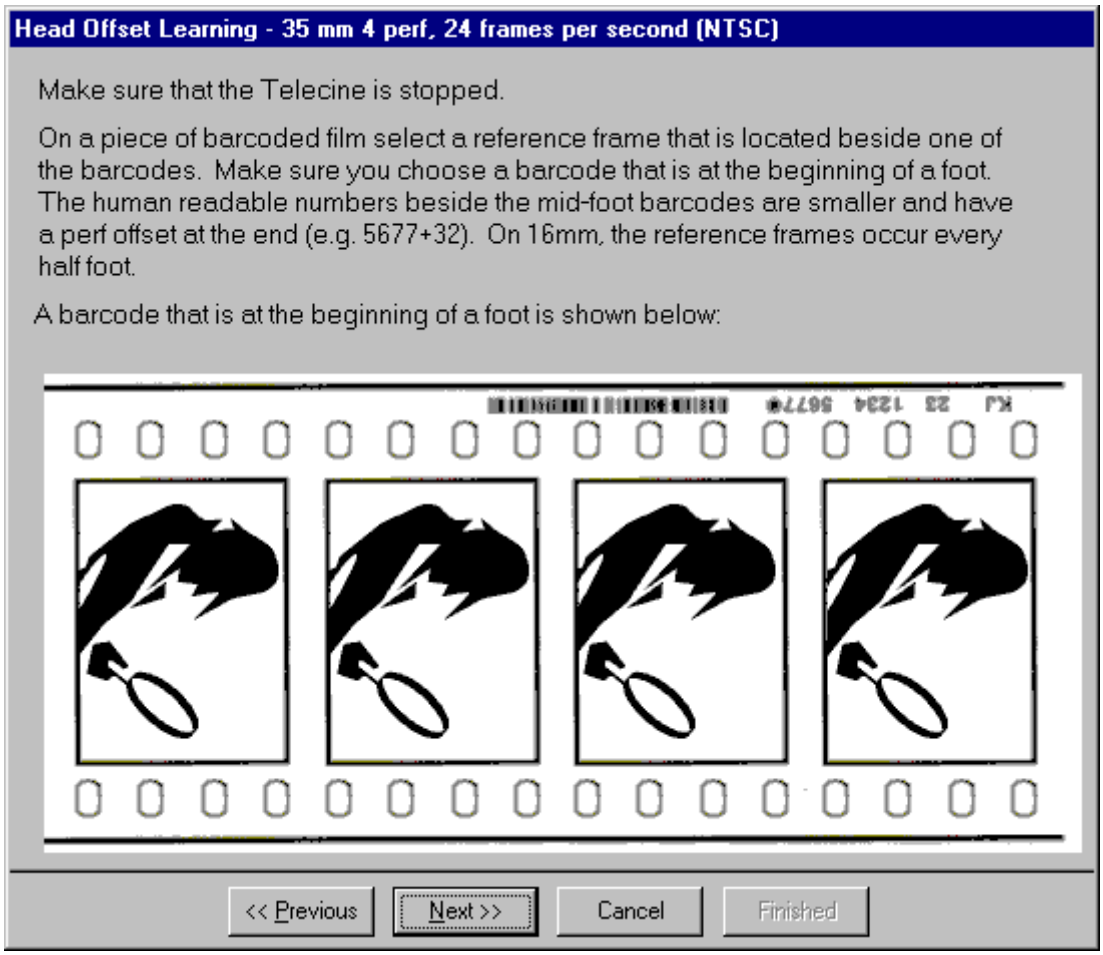
Screen 1 - Begin

It is important to perform the Biphase Accuracy test before you begin the Head Offset Learning procedure. It is recommended that you use the Kodak KeyKode Verification Film for the best results when learning the head offsets.


Head Offset Learning - 35 mm 4 perf, 24 frames per second (NTSC)
Before you attempt to calibrate the KeyKode Head offsets, make sure that you have verified that your system is set up correctly for Bi-Phase only operation. To do this use the Bi-Phase Test mode on the configuration screen, and follow the procedure outlined in the Help File topic "Verifying the Accuracy of your Bi-Phase based Film and Time Code Numbers".
<< Previous
Next >>
Cancel
Finished

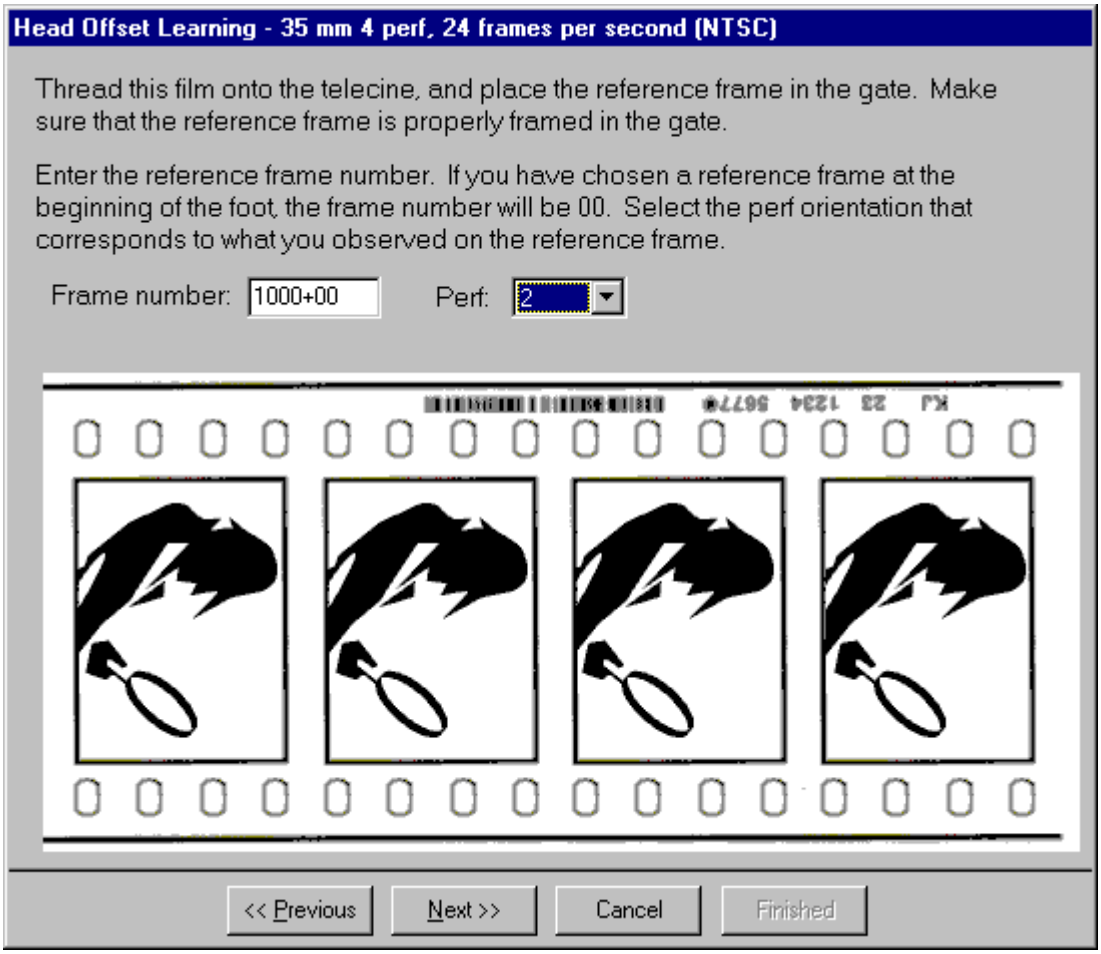
Screen 2 – Locating the Reference Film Frame

Choose a convenient frame adjacent to one of the Zero Frame Reference dots, as shown in the graphic on the screen. If the film format you are using has multiple perfs per frame, make a note of which perf the reference dot is adjacent to.



Screen 3 – Entering the Reference Frame Number and Perf Orientation

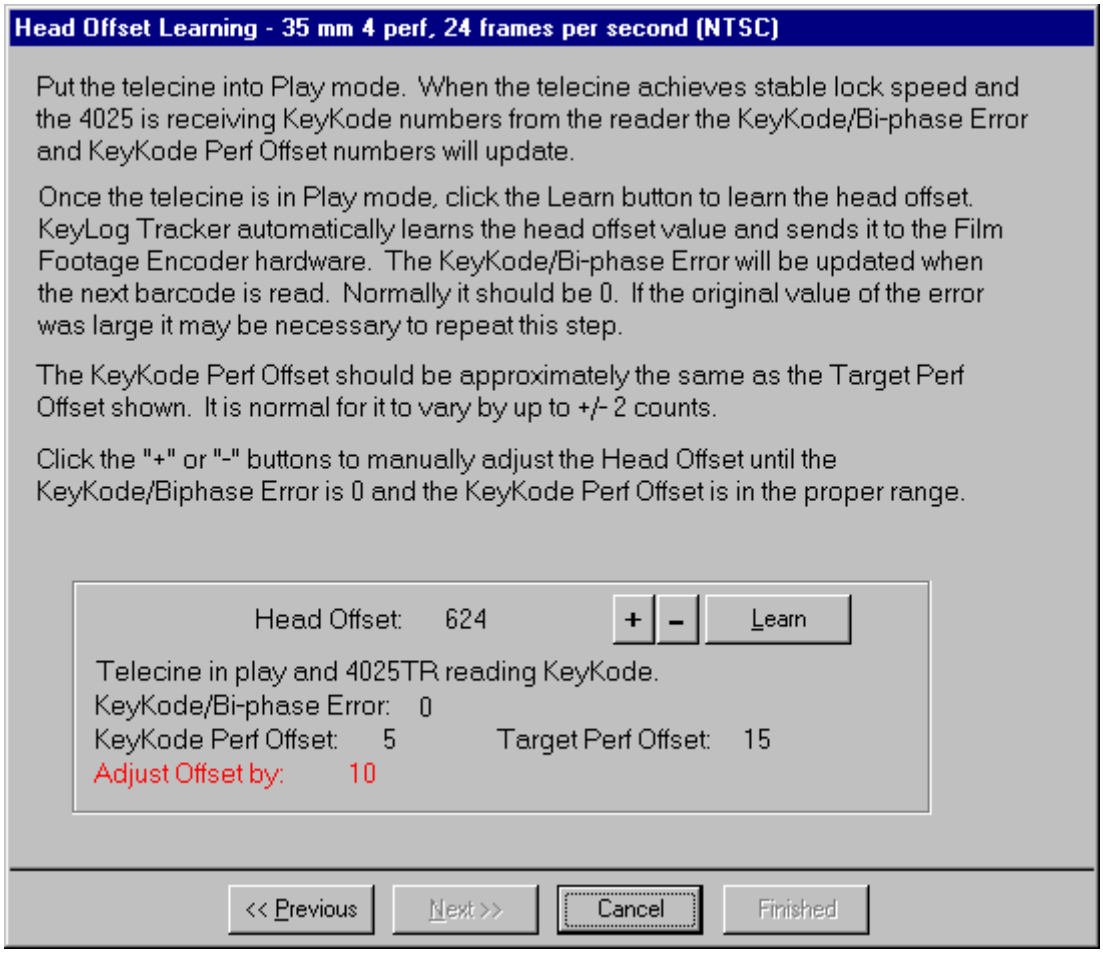
Once you have loaded the film onto the telecine with the reference frame properly framed in the gate, you need to enter the four digit footage and two digit frame number of the reference frame. If you are using film with multiple perfs per frame, choose the perf number that matches the perf orientation of the reference frame. The film graphic will show the correct alignment of the KeyKode to the reference frame. When you have entered this information proceed to the next screen.



Screen 4 – Learning the Head Offset

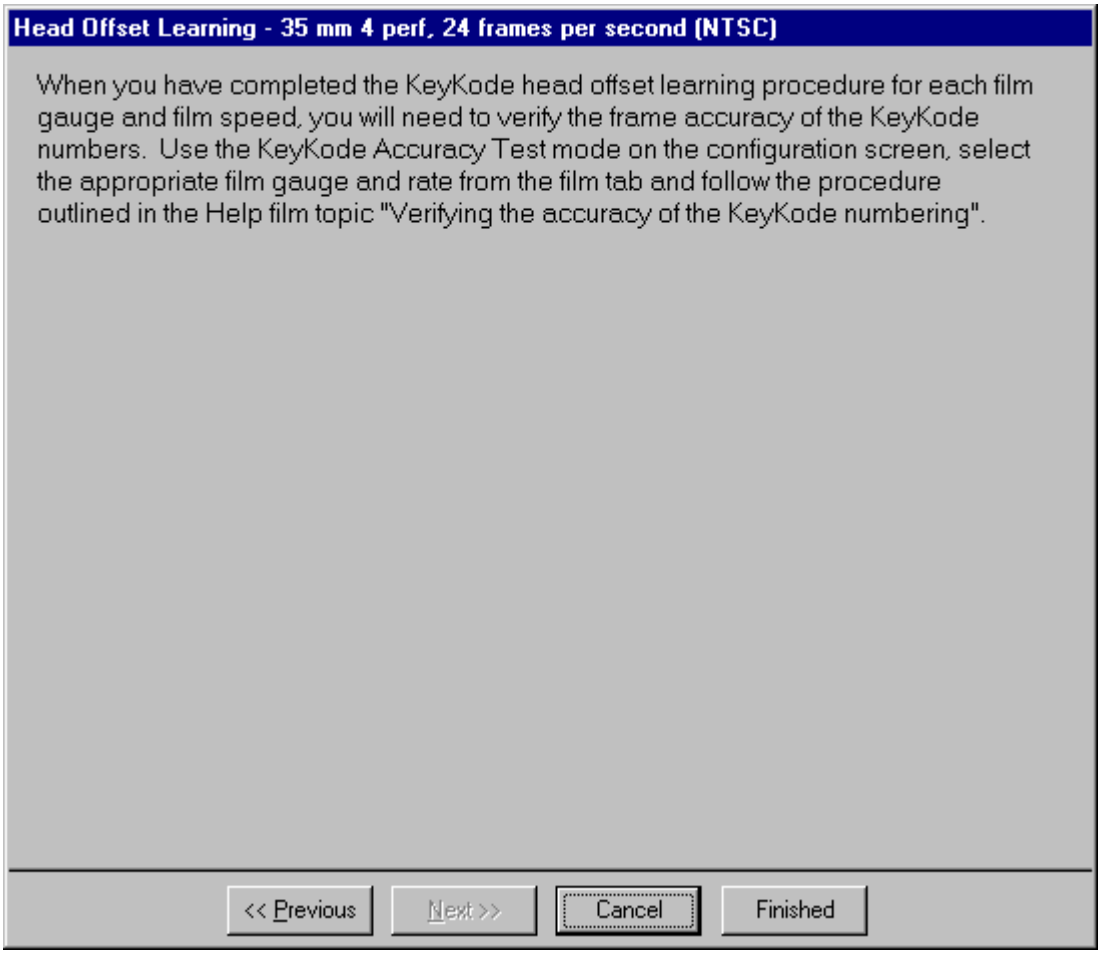
Put the telecine in Play. Screen 4 will show you when the 4025TR detects that the telecine is in Play and locked, and it is reading KeyKode from the KeyKode reader. Once these conditions are met, the Learn button will become active. Wait for a few seconds until the KeyKode/Biphase error number updates. This value is the number of film frames of difference between the biphase based numbers (updates from the reference frame number you entered) and the number that the KeyKode reader is reading.

When you press the Learn button, the KeyKode/Biphase error number should go to zero and the KeyKode perf offset should be the same as the target perf offset. If it these numbers are different, press the Learn button again or press the + – buttons to adjust the head offset. The 4025TR takes a few seconds to update the values each time you press one of the buttons. It is normal for the perf offset number to change by 1 or 2 counts, so you should adjust it so that the average value is equal to the target perf offset.


Head Offset Learning - 35 mm 4 perf, 24 frames per second (NTSC)
Put the telecine into Play mode. When the telecine achieves stable lock speed and the 4025 is receiving KeyKode numbers from the reader the KeyKode/Bi-phase Error and KeyKode Perf Offset numbers will update.
Once the telecine is in Play mode, click the Learn button to learn the head offset. KeyLog Tracker automatically learns the head offset value and sends it to the Film Footage Encoder hardware. The KeyKode/Bi-phase Error will be updated when the next barcode is read. Normally it should be 0. If the original value of the error was large it may be necessary to repeat this step.
The KeyKode Perf Offset should be approximately the same as the Target Perf Offset shown. It is normal for it to vary by up to +/- 2 counts.
Click the "+" or "-" buttons to manually adjust the Head Offset until the KeyKode/Biphase Error is 0 and the KeyKode Perf Offset is in the proper range.
Head Offset: 624
+
-
Learn
Telecine in play and 4025TR reading KeyKode.
KeyKode/Bi-phase Error: 0
KeyKode Perf Offset: 5
Target Perf Offset: 15
Adjust Offset by: 10
<< Previous
Next >>
Cancel
Finished

Screen 5 – That's All

When your finished, press the "Finish" button to save the head offset in the Head Offset Database. That will return you to the grid display that shows all the head offsets. If desired, you can choose another head offset from the table and re-do the learning process. When you have learned all the head offsets remember to press the Okay Button to save the new head offsets. You will also want to perform the KeyKode accuracy test to verify that you have learned the correct head offsets.



5.8.5 Adjust Head Offsets

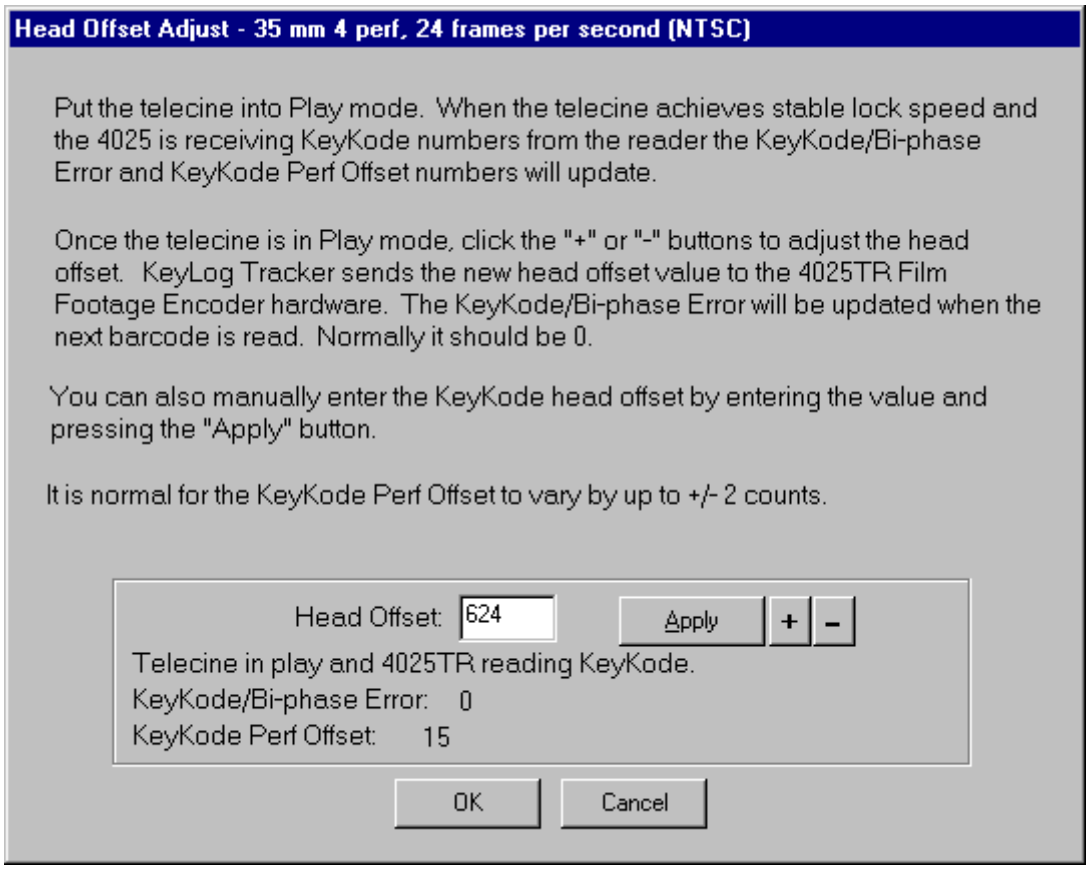
The Adjust Head Offset screen allows you to manually enter or adjust the KeyKode Head offsets. You may wish to follow the Learn Head Offsets procedure to initially learn the head offsets.

It is important to perform the Biphase Accuracy test before you adjust the KeyKode Head Offsets. It is recommended that you use the Kodak KeyKode Verification Film for the best results when adjusting the head offsets.

Choose a convenient frame adjacent to one of the Zero Frame Reference dots. If the film format you are using has multiple perfs per frame, make a note of which perf the reference dot is adjacent to.

Once you have loaded the film onto the telecine with the reference frame properly framed in the gate, you need to enter the KeyKode number of the reference frame using the Set Codes Window.

Put the telecine in Play. The Adjust Head Offset window will show you when the 4025TR detects that the telecine is in Play and locked, and it is reading KeyKode from the KeyKode reader. Once these conditions are met, the [+] [-] and [Apply] buttons will become active. Wait for a few seconds until the KeyKode/Biphase error number updates. This value is the number of film frames of difference between the biphase based numbers (updates from the reference frame number you entered) and the number that the KeyKode reader is reading.



The KeyKode/Biphase error number should be zero and the KeyKode perf offset should be the same as those shown in the target perf offset help item. If it these numbers are different, press the [+] [-] buttons to adjust the head offset. You may also enter a new head offset value in the Head Offset text field and press the [Apply] to send it to the 4025TR.

The 4025TR takes a few seconds to update the values each time you press one of the buttons. It is normal for the perf offset number to change by 1 or 2 counts, so you should adjust it so that the average value is equal to the target perf offset.

When your finished, press the [OK] button to save the head offset in the Head Offset Database. That will return you to the grid display that shows all the head offsets. If desired, you can choose another head offset from the table. When you have learned all the head offsets remember to press the Okay Button to save the new head offsets. You will also want to perform the KeyKode accuracy test to verify that you have learned the correct head offsets.

5.8.6 Target Perf Offset

The target perf offset is used during the head offset learning procedure. This value is the partial frame head offset corresponding to the perf of the reference dot on the KeyKode. Click on the film formats below to see the corresponding head target perf offset values.

16 mm
35 mm 3 Perf
35 mm 4 Perf
35 mm 8 Perf
65 mm 5 Perf
65 mm 8 Perf
65 mm 10 Perf
65 mm 15 Perf

5.8.6.1 16mm Perf Offsets

Reference Perf Orientation	Target Perf Offset
n/a	20

5.8.6.2 35mm 3 Perf Offsets

Reference Perf Orientation	Target Perf Offset
1	7
2	21
3	33

5.8.6.3 35mm 4 Perf Offsets

Reference Perf Orientation	Target Perf Offset
1	5
2	15
3	25
4	35

5.8.6.4 35 mm 8 Perf Offsets

Reference Perf Orientation	Target Perf Offset
1	3
2	8
3	13
4	18
5	23
6	28
7	33
8	38

5.8.6.5 65 mm 5 Perf Offsets

Reference Perf Orientation	Target Perf Offset
1	4
2	12
3	20
4	28
5	36

5.8.6.6 65 mm 8 Perf Offsets

Reference Perf Orientation	Target Perf Offset
1	3
2	8
3	13
4	18
5	23
6	28
7	33
8	38

5.8.6.7 65 mm 10 Perf Offsets

Reference Perf Orientation	Target Perf Offset
1	3
2	6
3	11
4	14
5	19
6	22
7	27
8	30
9	35
10	38

5.8.6.8 65 mm 15 Perf Offsets

Reference Perf Orientation	Target Perf Offset
1	2
2	4
3	6
4	10
5	12
6	14
7	18
8	20
9	22
10	26
11	28
12	30
13	34
14	36
15	38

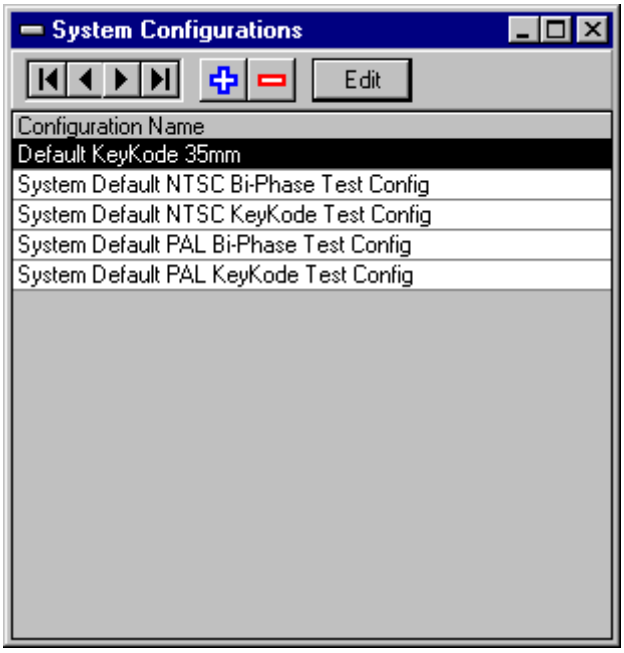
5.9 System Configuration

5.9.1 System Configurations Window

The System Configurations Window (**Edit** menu, **System Configuration…** command) is used to change previously saved system configurations or create a new system configuration. You must first close an open project before you can edit or create system configurations. (**File** menu, **Close Project** command)

Each saved configuration is a collection of parameters that configure how the KeyLog TRACKER™ software and the 4025TR Film Footage Encoder will be set up for a particular application. These

configurations control items in the 4025TR such as video standard, allocation of time code inputs and outputs to the system, VITC encoding mode and line numbers, film gauge and transfer rate, KeyKode jam method, telecine setup, what character windows will be displayed, and their size and position on the screen, etc. Some of the configuration items in KeyLog TRACKER™ include what capture mode will be used, what to do when KeyKode breaks are encountered, etc. Various sets of these parameters may be saved for different transfer applications. When you create a project, you are prompted to load one of the saved system configurations into the project. Once the configuration is loaded into the project, it may be customized without changing the saved system configurations. See "Project Configuration Window"



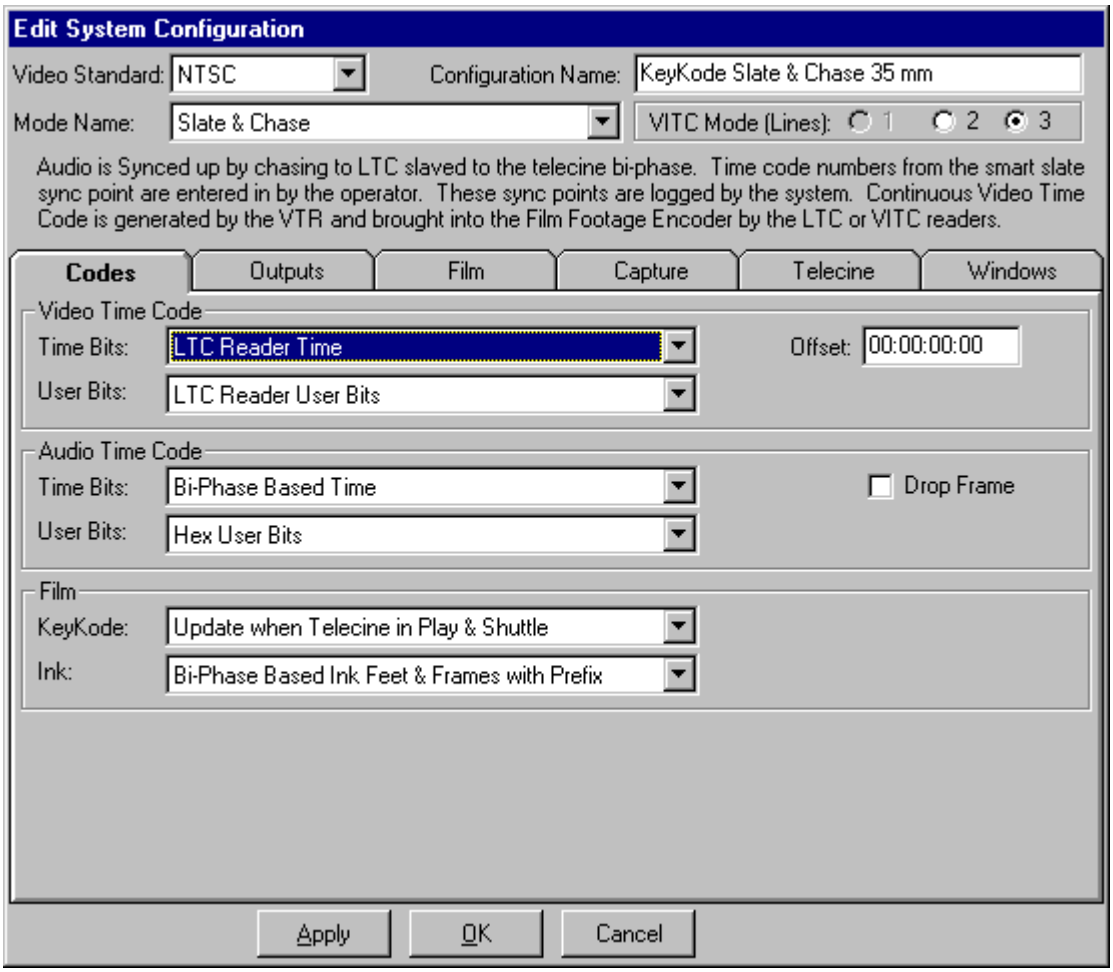
To create a new system configuration click on the blue plus sign . The configuration that is highlighted will be copied into the new configuration. The Add/Edit System Configurations Window allows you to set up this configuration and save it.

To delete a system configuration, select the Configuration from the list by using the arrow buttons or by clicking with the mouse. Then press the button. You will be prompted to confirm that you want to delete this configuration.

To change an existing system configuration, select the Configuration from the list by using the arrow buttons or by clicking with the mouse. Then click the Edit button or double click the entry that you wish to edit. The Add/Edit System Configurations Window allows you to modify the configuration and save it again.

5.9.2 Add/Edit System Configurations Window

The System Configuration window is a six tab window that allows you to save various configurations of the 4025TR hardware.



- **Video Standard:** Choose the video standard you will be using for this configuration. The video standard must agree with the video type currently connected to the 4025TR or the configuration data will not be sent to the 4025TR.
- **Mode Name:** KeyLog TRACKER™ provides a multitude of pre-defined configuration templates called Modes. Choose the operating mode that best suits your application, and KeyLog TRACKER™ pre-configures most of the configuration items for you. Any minor changes to some of the settings can be changed once you specify the Mode. The Mode names from the original 4025TR are shown in UPPERCASE and provide a convenient way of configuring the hardware in familiar modes.
- **VITC Mode (Lines)** – Choose the VITC encoding mode that you want to use.
  1. **One line mode** generates one VITC line that contains the Video Timecode in the time bits and part of the KeyKode information in the user bits. This is the mode used by the 4015 Film Footage encoder and is included for backward compatibility.
  2. **Two line** mode generates two lines of VITC. The first line encodes Video timecode in the time bits and Audio timecode in the user bits. The second line encodes KeyKode or Ink Code information and is protected by a special CRC

3. **Three line** mode generates a block of 3 lines of VITC. The first line encodes Video timecode and user bits. The second line encodes KeyKode or Ink Code information, along with the film pulldown and film gauge and is protected by a special CRC . The third line encodes Audio timecode and user bits and is protected by another special CRC. This format is compatible with the proposed SMPTE 3 line VITC encoding standard and is the recommended VITC mode.

Buttons:

- Apply — Saves the changes the changes that you made in the configuration and sends the new configuration to the 4025TR. The Configuration window remains open.
- OK — Save the changes the changes that you made in the configuration and send the new configuration to the 4025TR. The Configuration window closes and you are returned to the System Configurations Window.
- Cancel — Cancel any changes made to the current configuration. The Configuration window closes and you are returned to the System Configurations Window

For a detailed description of the other Tabs of the configuration window see the following links, or refer to the related System Configuration Settings in the printed documentation.

Codes - used to specify how the incoming codes affect Tracker's logical generators

Outputs - used to specify how the logical generator data will be output to the LTC and VITC generators

Film - used to specify the film type, transfer rate, etc.

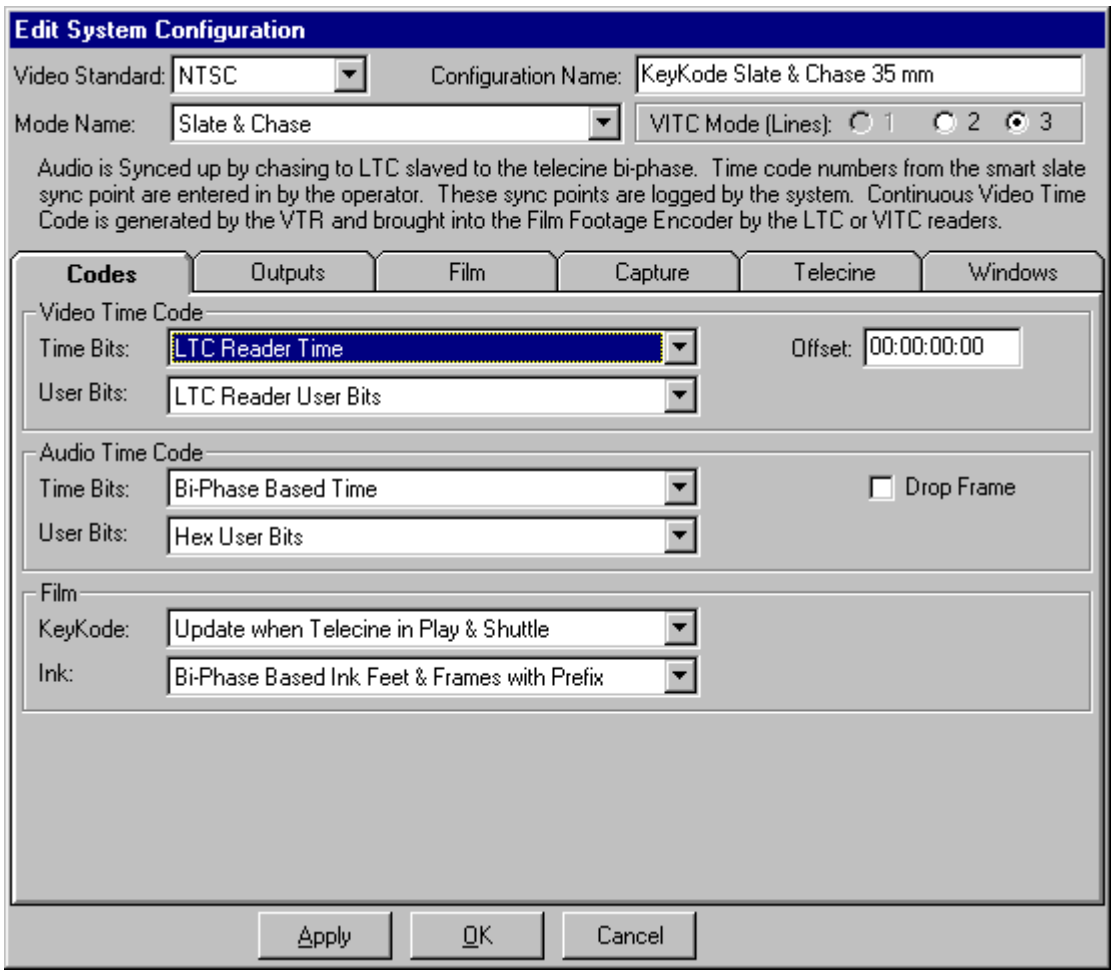
Capture - used to specify how Tracker will capture event data

Telecine - used to select the telecine setup parameters

Windows - used to specify the character generator windows

5.9.3 Add/Edit System Configuration - Codes Settings

To configure the sources for the logical code generators in the 4025TR click on the "Codes" Tab with the mouse.



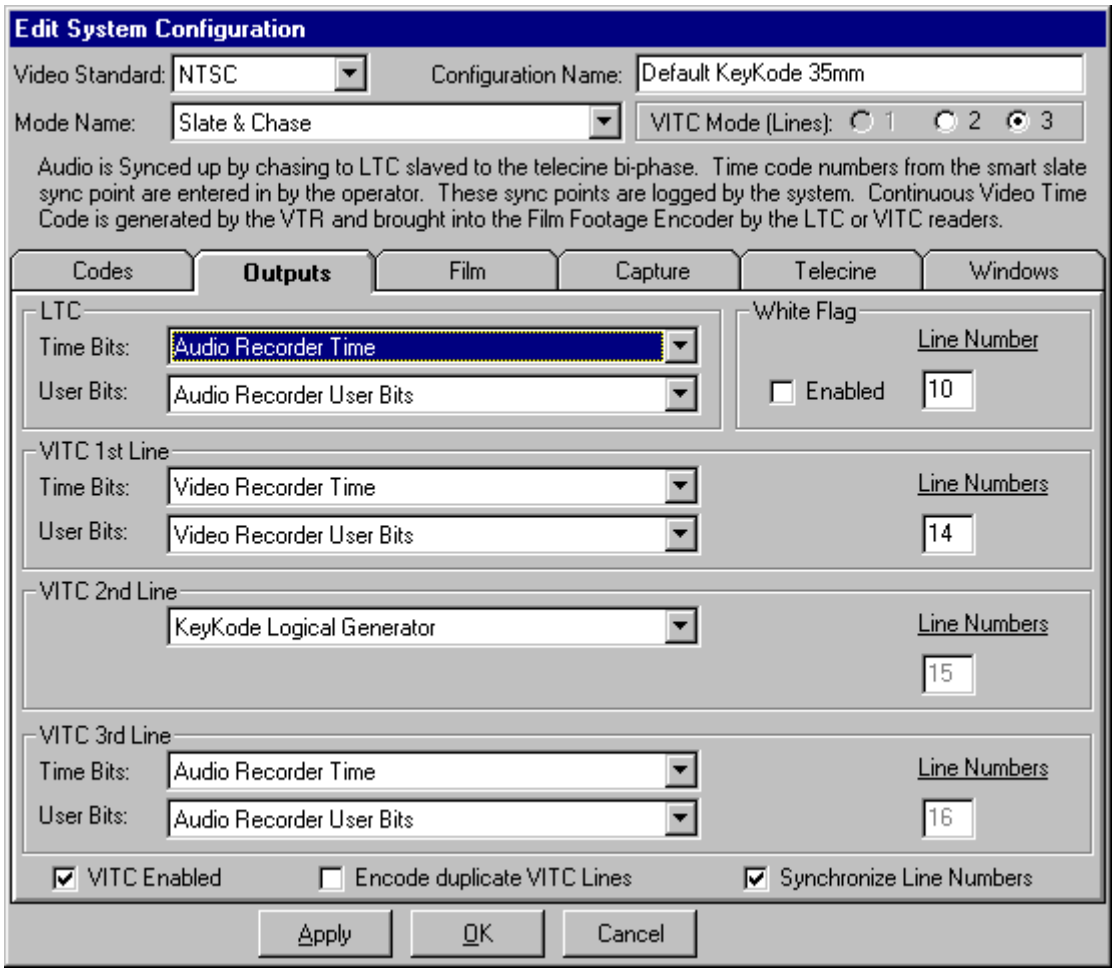
Video Time Code: Select the source for the Video Time code and user bits. Select the correct drop frame mode if it is available. If the Video Time Code source is the VITC or LTC reader time, then a Video Time code offset can be programmed between the reader time and the Video Time. In other words Video Time = Reader time + offset. Offsets greater than 12:00:00:00 are considered to be negative.

Audio Time Code: Select the source for the Audio Time code and user bits. Select the correct drop frame mode if it is available. If the Audio Time Code source is the VITC or LTC reader time, then an Audio Time code offset can be programmed between the reader time and the Audio Time. In other words Audio Time = Reader time + offset. Offsets greater than 12:00:00:00 are considered to be negative.

Film: There are two types of film codes handled by the Film Footage Encoder.
Select the method of updating the **KeyKode** registers in the 4025TR.
The **Ink Code** register is always updated from the biphase.

5.9.4 Add/Edit System Configuration - Outputs Settings

To configure the outputs from the logical code generators in the 4025TR click on the “Outputs” Tab with the mouse.



LTC: Select the source for the LTC Time and user bits.
White Flag: Click on the check box to enable the white flag output of the 4025TR. When the White Flag output is enabled, a white level pulse is inserted in the first video field of each new picture. Enter the line number that you wish the while flag pulse to be on.
VITC 1st line: The sources for the Time and user bits in the first line of VITC are determined by the VITC mode.
VITC 2nd line: The sources for the Time and user bits in the first line of VITC are determined by the VITC mode. The VITC 2nd line will only be shown in the 2 and 3 line VITC modes.
VITC 3rd line: The Time and user bits in the third line of VITC are the Audio Time code and user bits. The VITC 3rd line will only be shown in the 3 line VITC mode.

Enabling the VITC Generator

Click on the “VITC Enabled” check box to turn on the VITC generator. When the VITC generator is disabled, the white flag output is also turned off.

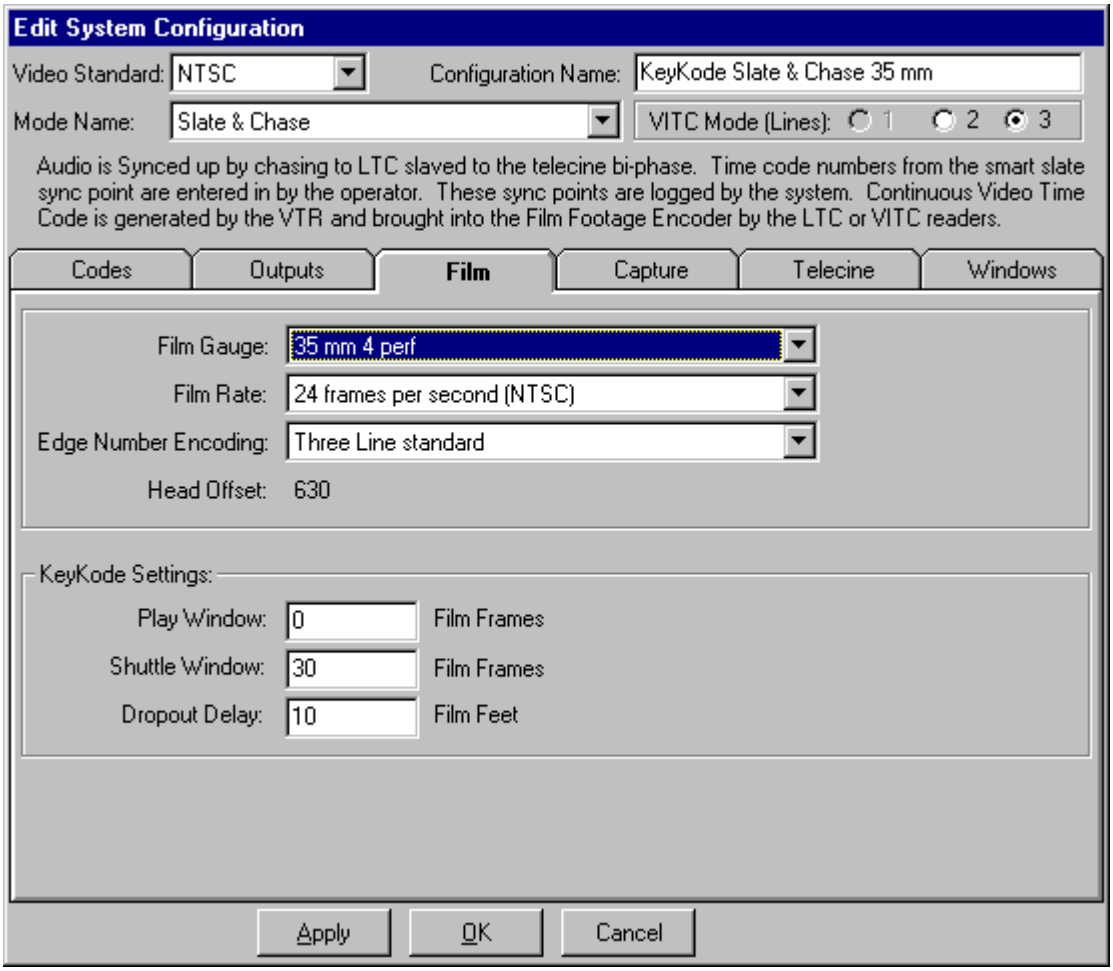
Setting the VITC Lines

Click on the "Encode duplicate VITC lines" check box to record a redundant set of VITC Lines. Normally this is not required with modern video recorders.

Click on the "Synchronize lines" check box to move all the VITC lines together. In this mode you select the line number for the VITC 1st line and the line numbers for the remaining lines (and their duplicates) will stay the same distance away. When the Synchronize lines feature is off you can freely enter line numbers for each line.

5.9.5 Add/Edit System Configuration - Film Settings

To configure the Film settings click on the "Film" Tab with the mouse.



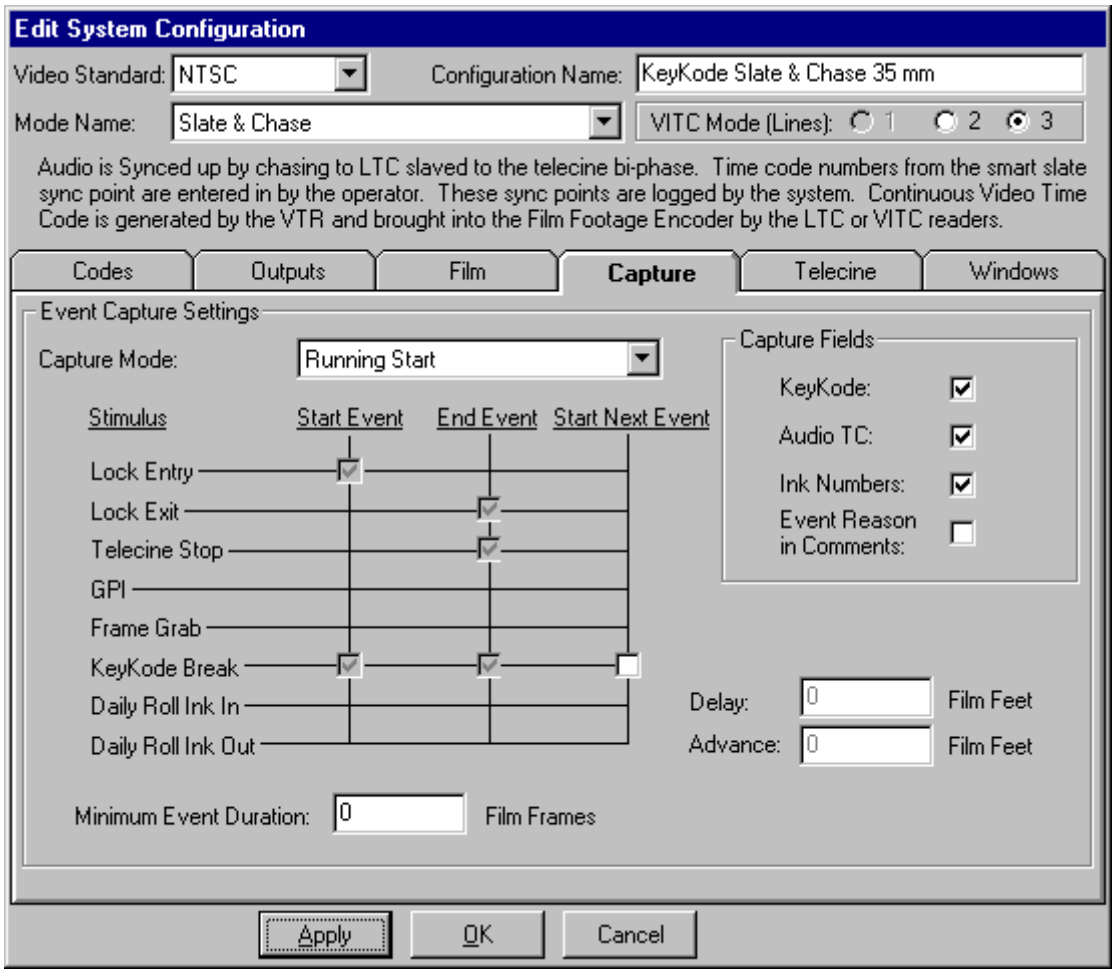
- **Film Gauge:** Choose the film gauge for the configuration.
- **Film Rate:** Choose film transfer rate for the configuration.
- **Edge Number Encoding:** Choose the method of encoding the film edge numbers into the VITC
- **Head Offset:** The current head offset for the film gauge and rate that you have selected is shown. This is the value that will be sent to the 4025TR when you Apply the configuration.

KeyKode Settings

- **Play Window:** This is the number of frames of difference between the KeyKode based numbers and the biphase based numbers that is permitted before the 4025TR will re-jam the biphase from the KeyKode. This setting is only used when the telecine is in the Play mode. Normally this value is set to 0 frames but may be set to a higher when the biphase rate of the telecine is low.
- **Shuttle Window:** This is the number of frames of difference between the KeyKode based numbers and the biphase based numbers that is permitted before the 4025TR will re-jam the biphase from the KeyKode. This setting is only used when the telecine is in the Shuttle mode. Normally this value is set to 30 frames.
- **Drop Out Delay:** This value determines how long the 4025TR will take to detect that KeyKode is not present. Normally it is set to 10 feet.

5.9.6 Add/Edit System Configuration - Capture Settings

To configure the Event Capture settings click on the “Capture” Tab with the mouse.



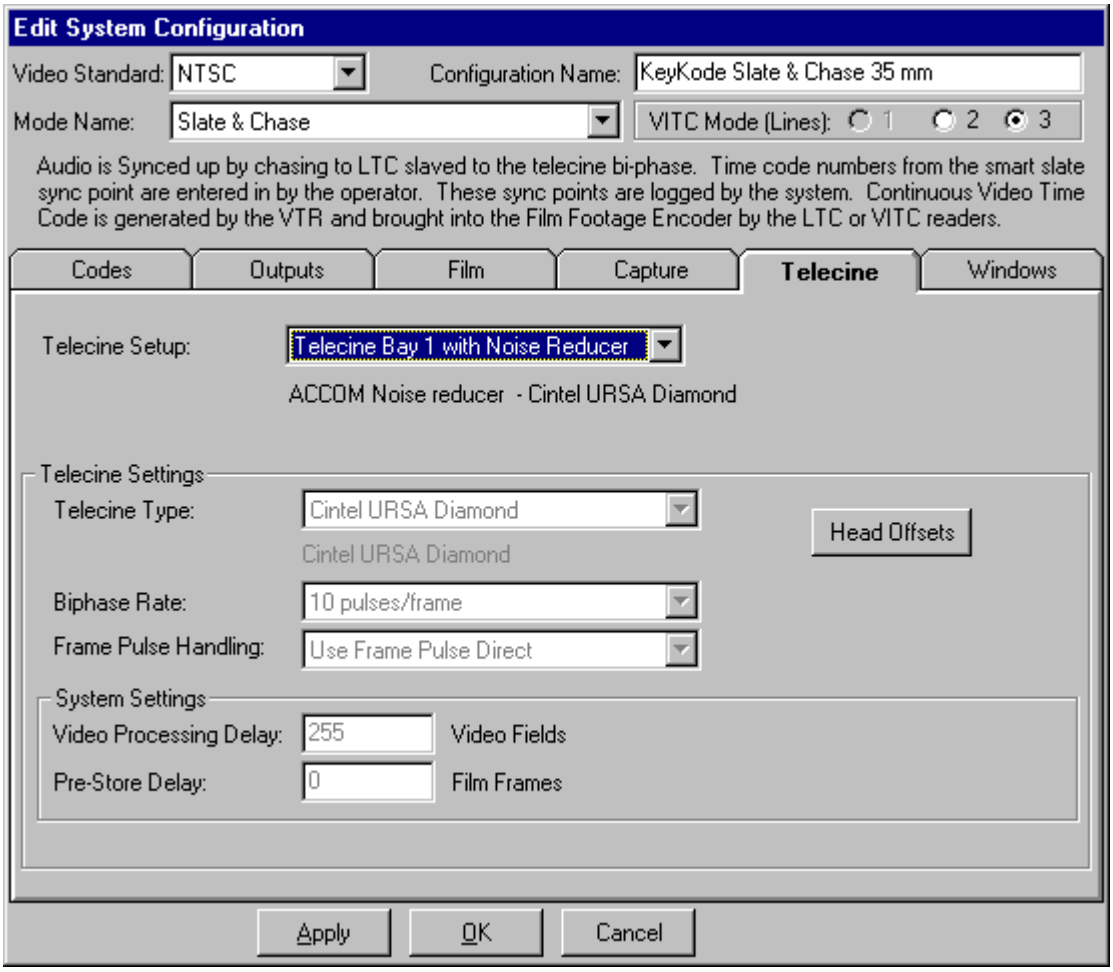
- **Capture Mode:** – Choose the Mode of Capture that the system will use in detecting event occurrences. The grid underneath the Capture mode shows the possible triggers to start events, stop events, and to automatically start new events at the end of the current event. The small boxes with check marks show the combinations of event triggers that are enabled for the

particular Capture mode. Grayed out check marks are always enabled. The white check-boxes can be optionally enabled by the user to customize the capture mode. See Capture Modes for information about selecting the correct capture mode for your application.

- **Minimum Event Duration:** Specifies a minimum duration (in film frames) for an event to be considered valid. Set this value to zero to log all Events. This value may be used to automatically throw away false events caused by Audio that is not in sync, or when the user aborts the transfer prematurely.
- **Capture Fields:** Check the boxes to indicate if you want the KeyKode, Audio Time code or Ink numbers captured into the event log. Comments indicating the Event stimulus at the event start and stop may also be logged.

5.9.7 Add/Edit System Configuration - Telecine Settings

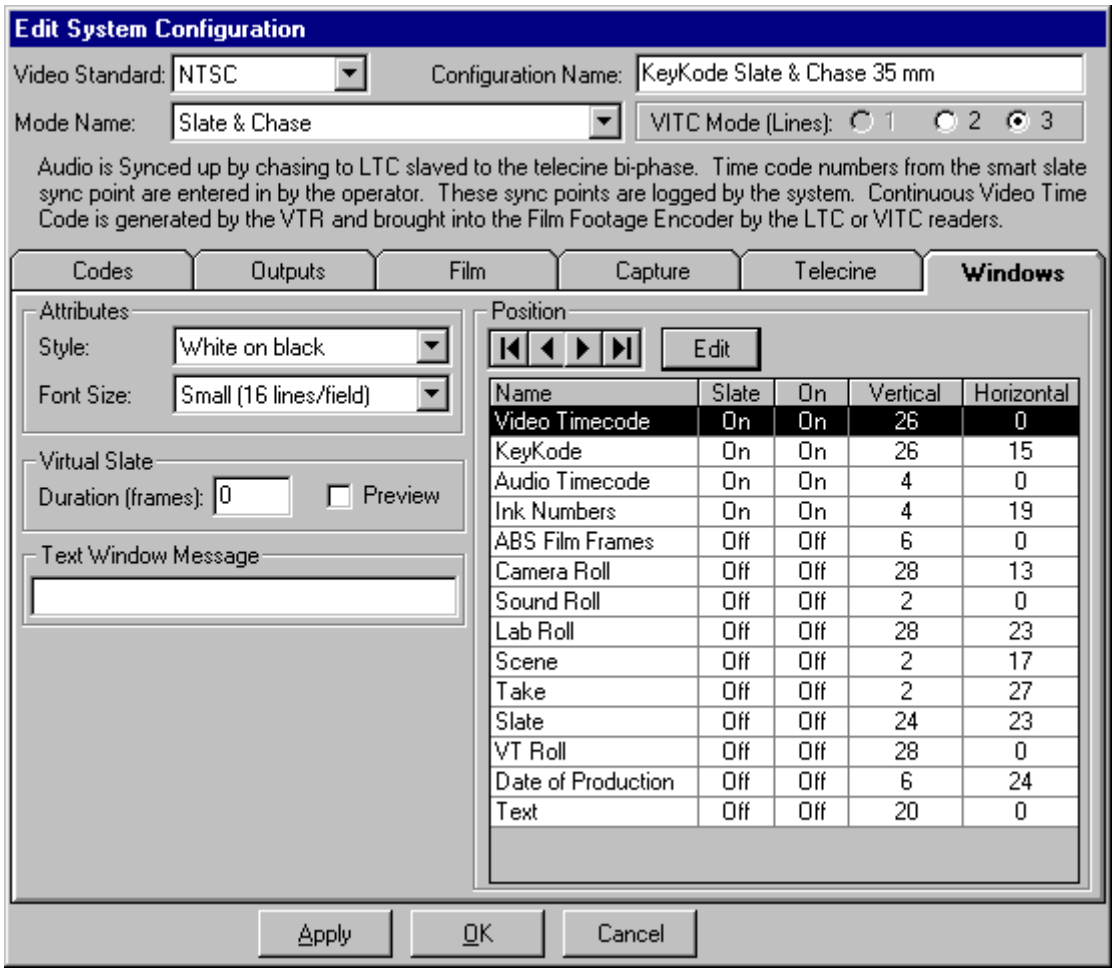
To configure the Telecine settings click on the "Telecine" Tab with the mouse.



Telecine Setup – This drop down list provides you with a list of pre set Telecine Setups. The telecine settings for the selected Telecine Setup are shown for information only. You can not change them from within a System Configuration.

5.9.8 Add/Edit System Configuration - Windows Settings

To configure the Character Generator Window settings click on the “Windows” Tab with the mouse.



Attributes:

- **Style:** Choose the format for the Character Burn-in Windows displayed on the Video Monitor.
- **Font Size**: Choose from one of 3 vertical character sizes for the character display windows.

Virtual Slate Length:

Enter the length of time in video frames that the virtual slate is to be displayed. The virtual slate allows you to configure various character display windows to be on for a specified length of time at the beginning of each event.

Virtual Slate Preview: Check this box to turn on all the windows enabled for the virtual slate. This allows you to see the relative positions of the various windows when positioning other windows. When you close the configuration window the Virtual slate preview will be turned off.

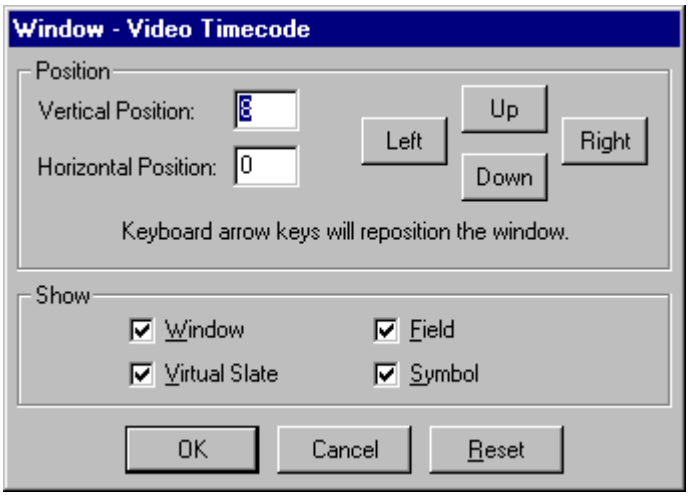
Text Window Message:

You can enter an alphanumeric text message up to 32 characters long to be displayed on the video monitor. The text window must be On and you must press the Apply button in order to view the Text window.

Position:

This area shows a list of the available character windows with its attributes. The "Slate" column shows which windows are enabled for the virtual slate. The "On" column shows which windows are permanently On. The "Vertical" and "Horizontal" columns show the window's relative position on the screen.

In order to change the attributes of a window, first select it by using the arrow buttons or click on the window name with the mouse. Then press the Edit button, or double click on the window name, or press the Enter key on the keyboard. You can make changes to the attributes using the Window dialog box. The respective character window will be highlighted on the video monitor.



Click on the Window check box to permanently turn on the window.

Click on the Virtual Slate check box to turn on the window when the virtual slate is on.

Click on the Display Fields check box to display the field information for Timecode values.

Click on the Display Symbols check box to turn on Display Symbols to the left of the character window. When you are positioning the KeyKode or Ink number windows this check box enables the Prefix part of the number.

If there is a check mark in the box then the option is already enabled. To disable the option click on the appropriate box.

To position the window use the keyboard cursor keys, or press the position buttons on the screen with the mouse.

6. Projects

6.1 Project/Production Overview

KEYLOG TRACKER™ uses a relational database structure to keep track of various parts of your telecine session. Most of the databases are presented using a grid display similar to that shown below. The controls for all databases are the same but the "Fields" that contain the "Records" will change depending on the data being displayed.

6.2 Creating a Project

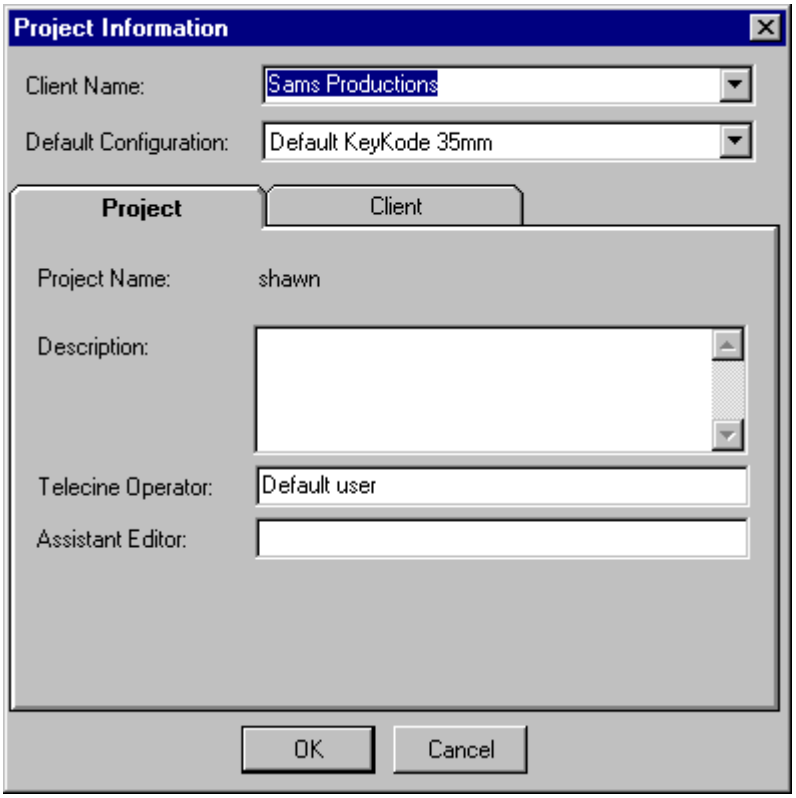
On the File menu choose **New Project** or choose the new project  button to begin a new project. You're presented with a dialogue box that allows you to select a name for your new KEYLOG TRACKER™ project file. The default location where those projects are stored is in the Projects folder of the Tracker folder, however you may put the projects wherever you please on your local hard drive or on a network server. To change the default location where projects are stored, change the "Projects" item in the Tracker.ini file. Any time you start a new project, it is recommended that you store the project file and the related Daily files, report files and export files in a separate folder. In this way if you use the same file names (for example, Daily1…Daily2..etc.) you will not overwrite previously saved files. To create a new folder, press the "new folder' button in the dialog box where you give the project a file name. Give the new folder an appropriate name. Double click on the new folder and then enter an appropriate name in the File Name box. Press the Open button to create the new project file. You are presented with the Project Information dialog box that allows you to choose the client, a default System Configuration to load into the project. The project information screen also allows you to enter descriptive text in about your project. For information about setting up clients see the "Client Window" help item.

Press the OK button to accept the project information. The system configuration shown on the project information screen is copied into the project where you can customize it for the particular project. The Project Configuration screen is identical to the one that used to set up the system configuration. You can modify specific elements of the project configuration such as the film rate, the film gauge, the capture modes, etc.

The Capture tab allows you to configure the way you will log data for a specific project. Currently there are six types of capture modes supported in KEYLOG TRACKER™. For information about the various capture modes see the Capture Modes help topic. The minimum event size allows us to filter out false events that may occur due to momentary servo locking during the run up or KeyKode breaks that are the result of material being spliced in and out of a roll for purposes of printing. Press the Okay button when you have made any changes to the configuration. This will close the configuration screen and send the configuration data to the 4025TR.

6.3 New Project Information Window

The New Project Information Window is a two-tab window that allows you to choose the client and default configuration for the project.



KeyLog TRACKER™ prompts for the project's Client Name and configuration. Choose from the list of available clients, and KeyLog TRACKER™ will display that client's default configuration. You can choose an alternate configuration to load into the project using the configuration drop down. You may also enter other project and client information if desired. Choose OK to load the configuration into the project. KeyLog TRACKER™ will prompt you to confirm the "Project Configuration" prior to sending the configuration information to the 4025TR.

6.4 Project Windows

The VT roll screen is used to set up various videotape rolls. There is a default videotape roll that is setup on each new project and it happens to be called roll 1. To change the number of that roll or the description of it, press the edit button. To start a new video tape roll, use the  sign. The Edit VT Rolls screen opens with the next VT roll and allows you to put in the description that matches your VT roll. You can now select that VT roll on the Event log VTRoll dropdown and begin capturing on that roll. If you set the VTRoll dropdown to 'All', then all the captured events in the project are shown in the window. If you select an individual VT roll, then only the events for the particular VT roll are shown. In order to begin capturing set the VTRoll to one of the Videotape rolls.

The Production window is used to enter in production data such as lab roll, camera roll, sound roll, scene and take and scene description. This information will be displayed on the 4025TR character windows if they are turned on and will be captured into the event log at the end of each event. Production data for all the events to be transferred can be entered into a Daily Roll .

The Event window shows the data that is captured for each event. You can adjust the column locations and sized to view only the data that is important to you. See the Databases and Records help item for more information.

6.5 Capturing Event Data

To begin capturing data press the  button. When you're in Frame Grab mode, pressing the Grab button, captures the in point of a particular event and these numbers are shown in the status window at the bottom of the event log. Pressing the Grab button again completes the event and starts the second event. The production data entered in the production window is grabbed along with the time code and KeyKode data. The take number automatically increments and so we're ready to grab the end of the next event. As each event is grabbed you can just keep bringing them in with the same production data. After several events you will have a change some of the production data, such as Scene, or camera roll. To do this you can click on the appropriate field of the production window, enter the data then click back on the event log. To finish capturing, press the Stop  button. For more information about capture modes see the Capture Modes help item.

6.6 Creating Reports

When you are finished capturing you may want to generate a report of the events that you have captured. This can be done by choosing **Reports…** from the File menu, or by pressing the reports  button. The Report Interface window allows you to choose the report formats with the browse button. You can also choose how many copies of the report you want and whether you want the report to go to the screen, to the file or to the printer. Press the Do Report button to create the report. All of the events for the particular VT roll that is shown in the Event Log window are listed in the report. If you want a complete list of the whole project then you need to display all the VT rolls and run the report. A new page is started each VT roll.

6.7 Creating Export Files

To export KEYLOG TRACKER™ event data to non-linear edit systems use the **Export** item on the **File** menu. The Export Interface window allows you to choose the required export file format using the Export File Format dropdown. Use the browse button choose a file name and location for your export file. The Export button actually begins making the file.

6.8 Closing a Project

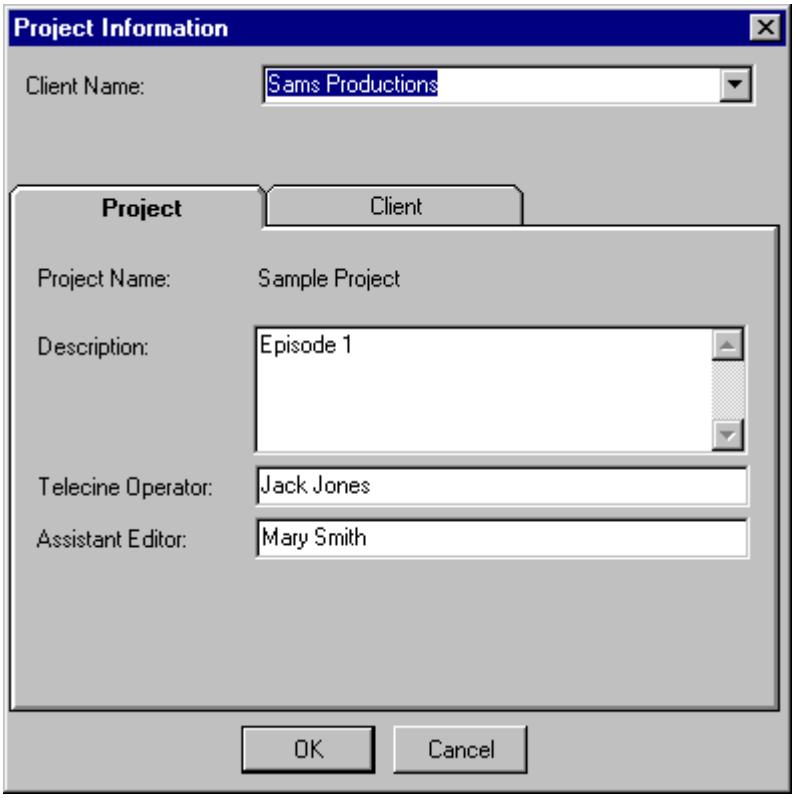
When you're finished your transfer session, close the project file using the close button  .

6.9 Project Information Window

The Project Information Window (**Project** menu, **Project Information** command) is a two tab window that allows you to enter descriptive text and client information for the project.

Project

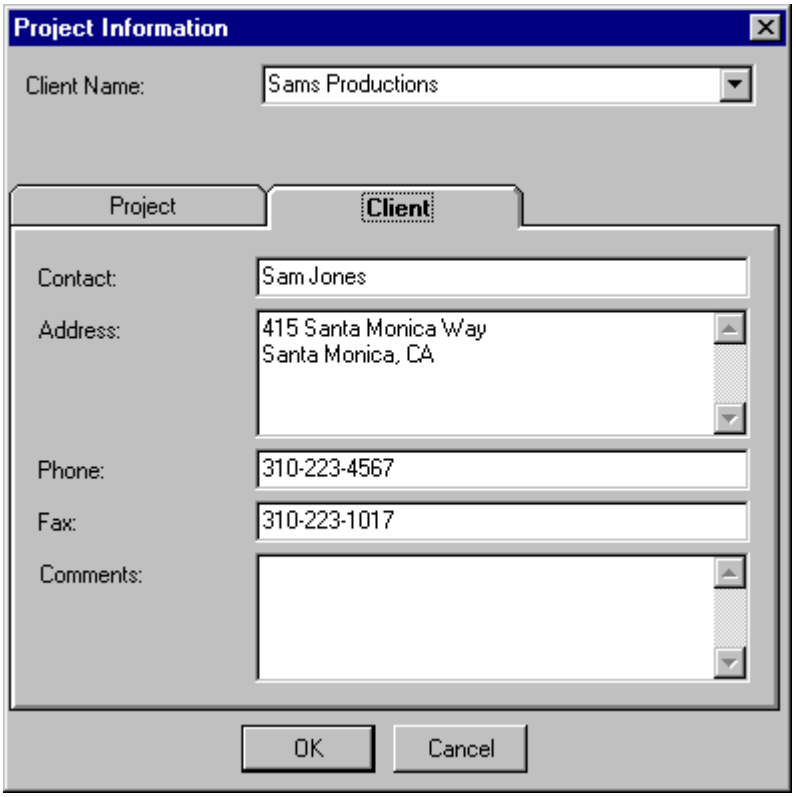
Enter descriptive text for the project



Client

To change to the Client tab, click on it with your mouse.

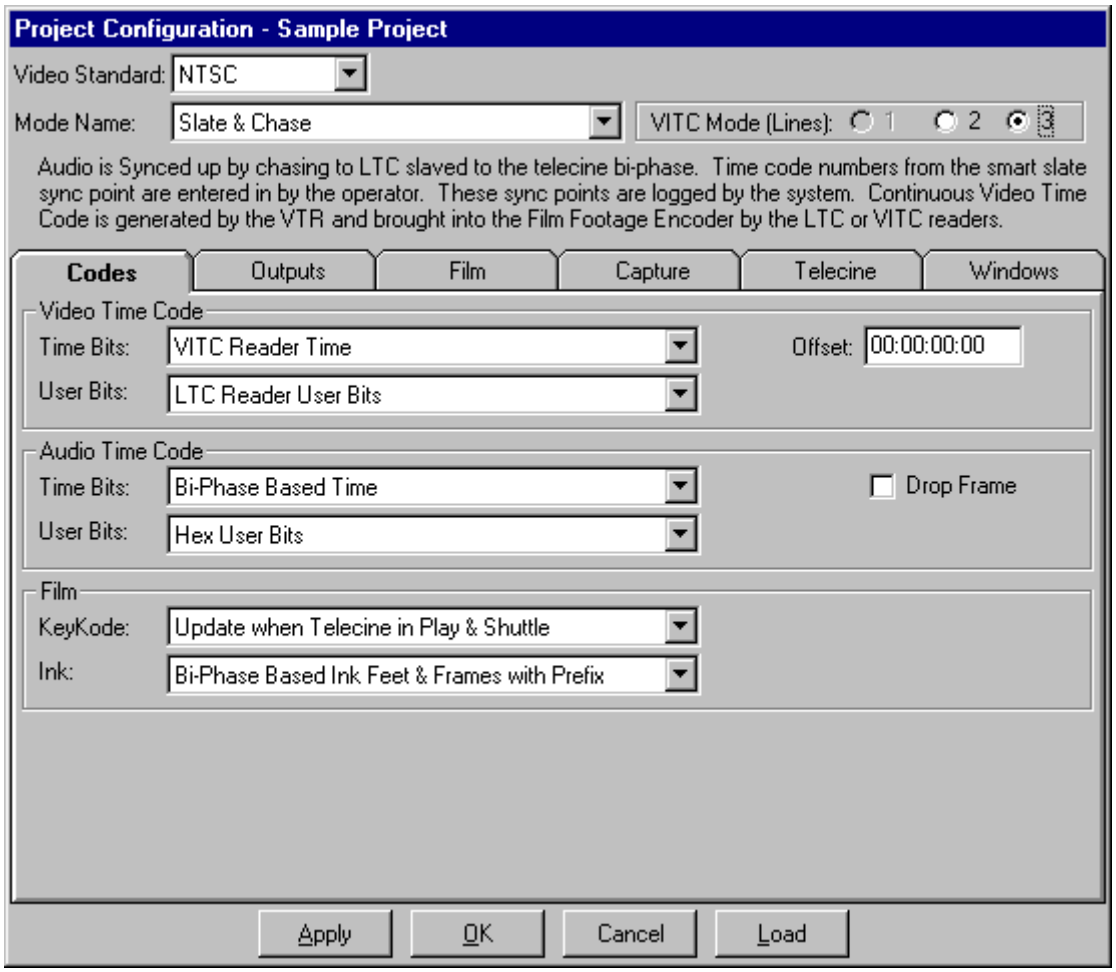
Client information for this project is shown. You can customize the client information for this project.



6.10 Project Configuration

6.10.1 Project Configuration Window

The Project Configuration window (**Project** menu, **Project Configuration** command) is a six tab window that allows you to configure the 4025TR hardware specifically for this project. This menu item is enabled only when you have a project open. Configuration changes in the **Project Configuration** window only affect the current project. To change the saved System Configurations see "Add/Edit System Configurations".



- **Video Standard:** Choose the video standard you will be using for the project. The video standard of the project must agree with the video type currently connected to the 4025TR or the configuration data will not be sent to the 4025TR.
- **Mode Name:** KeyLog TRACKER™ provides a multitude of pre-defined configuration templates called Modes. Choose the operating mode that best suits your application, and KeyLog TRACKER™ pre-configures most of the configuration items for you. Any minor changes to some of the settings can be changed once you specify the Mode. The Mode names from the original 4025 are shown in UPPERCASE and provide a convenient way of configuring the hardware in familiar modes.
- **VITC Mode (Lines)** – Choose the VITC encoding mode that you want to use.
  1. **One line mode** generates one VITC line that contains the Video Timecode in the time bits and part of the KeyKode information in the user bits. This is the mode used by the 4015 Film Footage encoder and is included for backward compatibility.
  2. **Two line** mode generates two lines of VITC. The first line encodes Video timecode in the time bits and Audio timecode in the user bits. The second line encodes KeyKode or Ink Code information and is protected by a special CRC
  3. **Three line** mode generates a block of 3 lines of VITC. The first line encodes Video timecode and user bits. The second line encodes KeyKode or Ink Code information, along with the film pulldown and film gauge and is protected by a special CRC . The third line encodes Audio timecode and user bits and is protected by another special CRC. This format is compatible with the proposed SMPTE 3 line VITC encoding standard and is the recommended VITC mode.

Buttons:

- Apply Saves the changes the changes that you made in the project configuration and sends the new configuration to the 4025TR. The Configuration window remains open.
- OK Saves the changes the changes that you made in the project configuration and sends the new configuration to the 4025TR. The Configuration window closes and you are returned to the KeyLog TRACKER™ Desktop.
- Cancel Cancel any changes made to the current configuration. The Configuration window closes and you are returned to the KeyLog TRACKER™ Desktop.
- Load Load a previously saved configuration into the current project.

For a detailed description of the other tabs of the Project Configuration Window choose from the following links, or refer to the related Project Configuration Settings in the printed documentation.

Codes - used to specify how the incoming codes affect Tracker's logical generators

Outputs - used to specify how the logical generatordata will be output to the LTC and VITC generators

Film - used to specify the film type, transfer rate, etc.

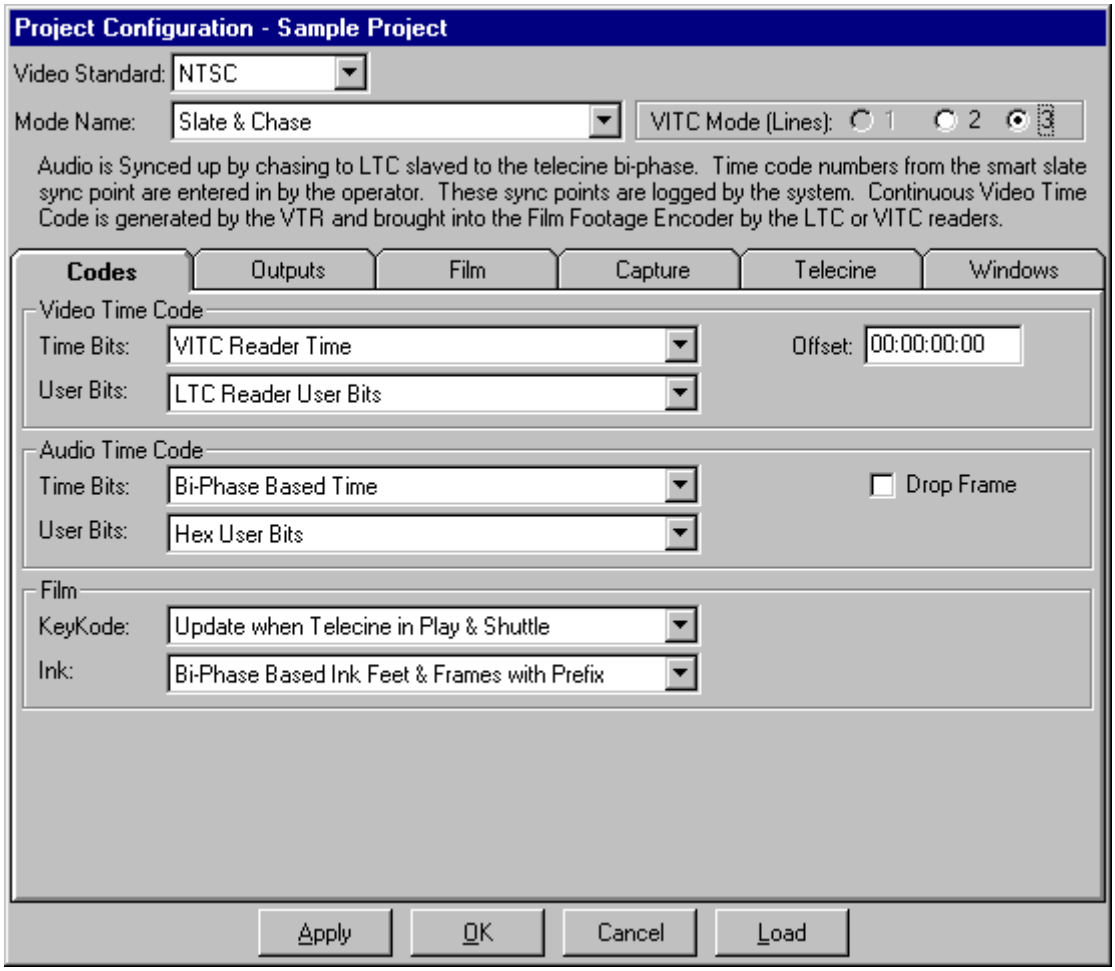
Capture - used to specify how Tracker will capture event data

Telecine - used to select the telecine setup parameters

Windows - used to specify the character generator windows

6.10.2 Project Configuration - Codes Settings

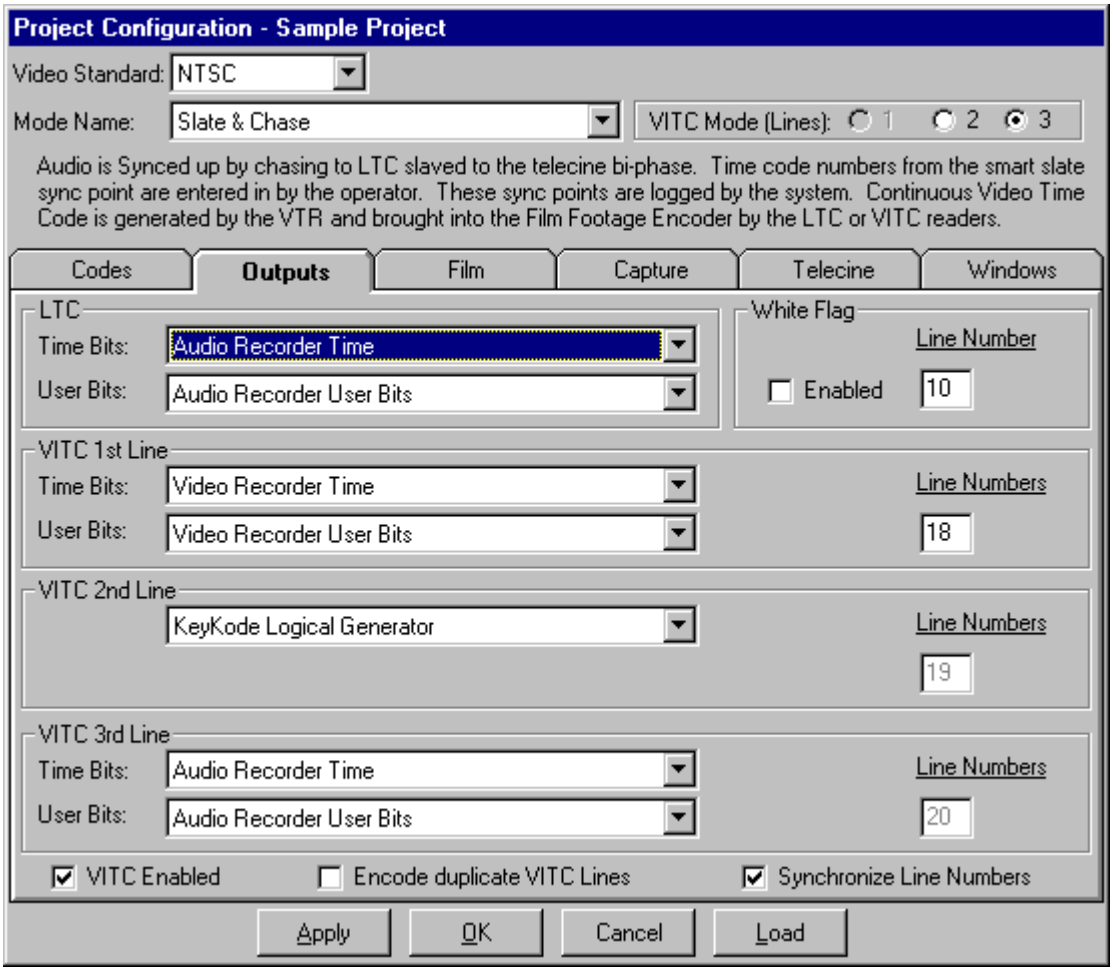
To configure the sources for the logical code generators in the 4025TR select the Project Configuration window (**Project** menu, **Project Configuration** command) then click on the "Codes" Tab with the mouse.



- **Video Time Code:** Select the source for the Video Time code and user bits. Select the correct drop frame mode if it is available. If the Video Time Code source is the VITC or LTC reader time, then a Video Time code offset can be programmed between the reader time and the Video Time. In other words Video Time = Reader time + offset. Offsets greater than 12:00:00:00 are considered to be negative.
- **Audio Time Code:** Select the source for the Audio Time code and user bits. Select the correct drop frame mode if it is available. If the Audio Time Code source is the VITC or LTC reader time, then an Audio Time code offset can be programmed between the reader time and the Audio Time. In other words Audio Time = Reader time + offset. Offsets greater than 12:00:00:00 are considered to be negative.
- **Film:** There are two types of film codes handled by the Film Footage Encoder.
  Select the method of updating the KeyKode registers in the 4025TR. The Ink Code register is always updated from the biphase.

6.10.3 Project Configuration - Outputs Settings

To configure the outputs from the logical code generators in the 4025TR, select the Project Configuration window (**Project** menu, **Project Configuration** command) then click on the "Outputs" Tab with the mouse.



- **LTC:** Select the source for the LTC Time and user bits.
- **White Flag:** Click on the check box to enable the white flag output of the 4025TR. When the White Flag output is enabled, a white level pulse is inserted in the first video field of each new picture. Enter the line number that you wish the while flag pulse to be on.
- **VITC 1st line:** The sources for the Time and user bits in the first line of VITC are determined by the VITC mode.
- **VITC 2nd line:** The sources for the Time and user bits in the first line of VITC are determined by the VITC mode. The VITC 2nd line will only be shown in the 2 and 3 line VITC modes.
- **VITC 3rd line:** The Time and user bits in the third line of VITC are the Audio Time code and user bits. The VITC 3rd line will only be shown in the 3 line VITC mode.

Enabling the VITC Generator

Click on the "VITC Enabled" check box to turn on the VITC generator. When the VITC generator is disabled, the white flag output is also turned off.

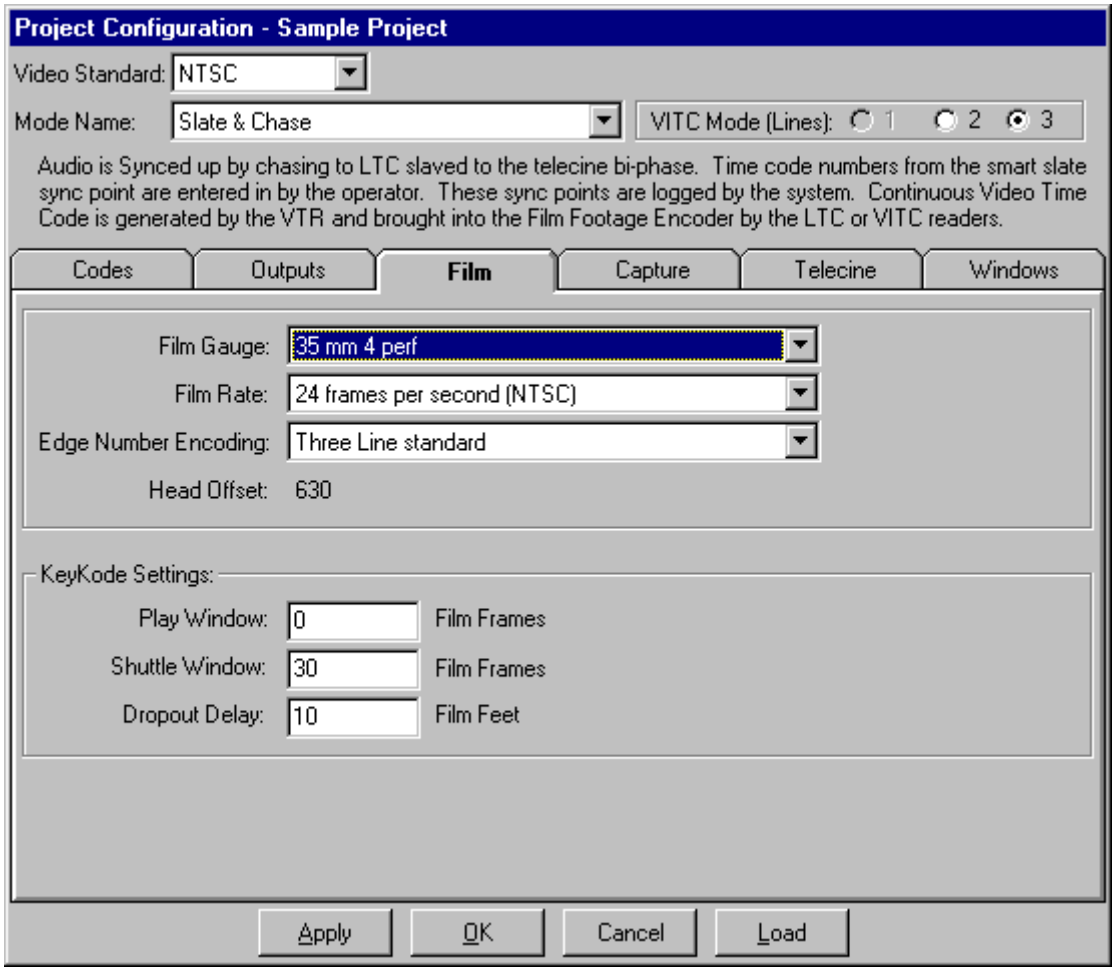
Setting the VITC Lines

Click on the "Encode duplicate VITC lines" check box to record a redundant set of VITC Lines. Normally this is not required with modern video recorders.

Click on the "Synchronize lines" check box to move all the VITC lines together. In this mode you select the line number for the VITC 1st line and the line numbers for the remaining lines (and their duplicates) will stay the same distance away. When the Synchronize lines feature is off you can freely enter line numbers for each line.

6.10.4 Project Configuration - Film Settings

To configure the Film settings for the transfer select the Project Configuration window (**Project** menu, **Project Configuration** command) then click on the "Film" Tab with the mouse.



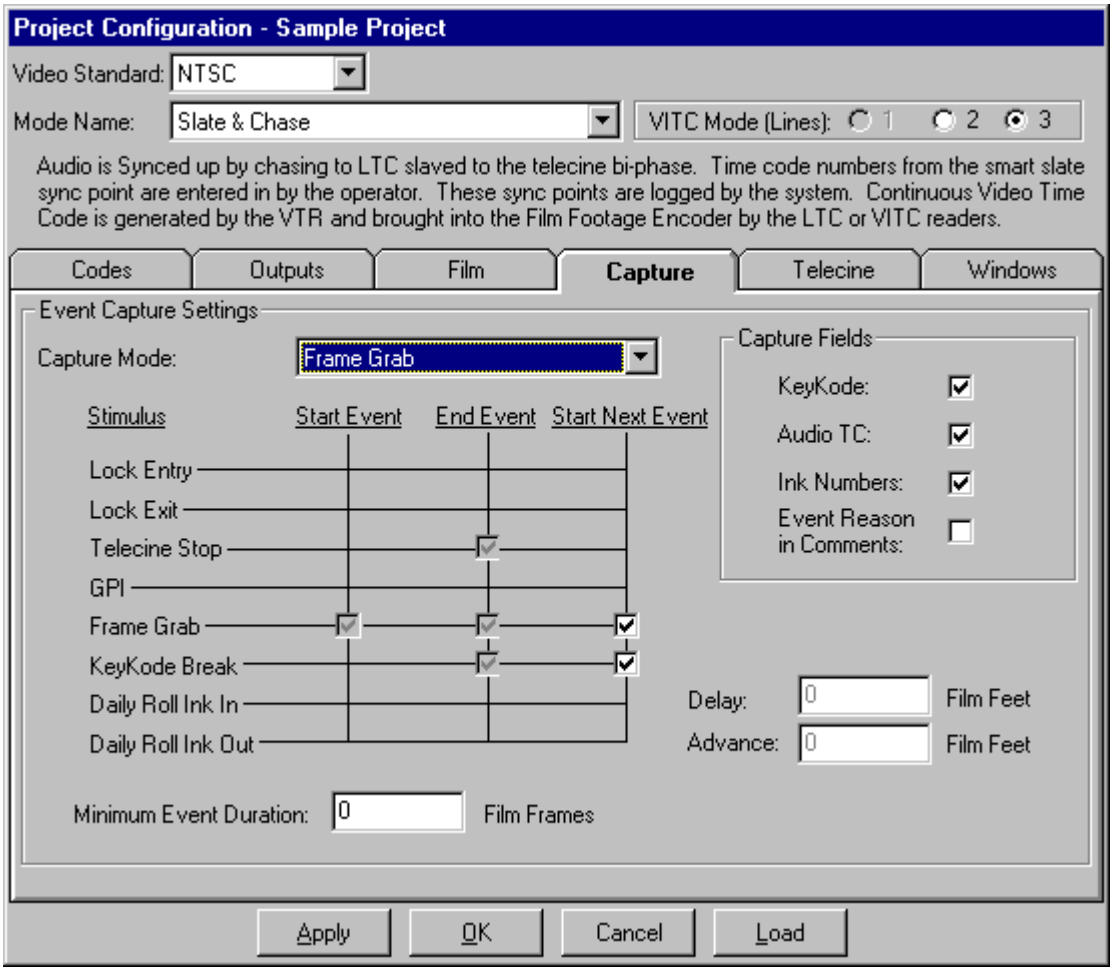
- **Film Gauge:** Choose the film gauge for the project.
- **Film Rate:** Choose film transfer rate for the project.
- **Edge Number Encoding:** Choose the method of encoding the film edge numbers into the VITC
- **Head Offset:** The current head offset for the film gauge and rate that you have selected is shown. This is the value that will be sent to the 4025TR when you Apply the configuration.
- **KeyKode Settings**
  - **Play Window:** This is the number of frames of difference between the KeyKode based numbers and the biphase based numbers that is permitted before the 4025TR will re-jam the biphase from the KeyKode. This setting is only used when the

telecine is in the Play mode. Normally this value is set to 0 frames but may be set to a higher when the biphase rate of the telecine is low.

- **Shuttle Window:** This is the number of frames of difference between the KeyKode based numbers and the biphase based numbers that is permitted before the 4025TR will re-jam the biphase from the KeyKode. This setting is only used when the telecine is in the Shuttle mode. Normally this value is set to 30 frames.
- **Drop Out Delay:** This value determines how long the 4025TR will take to detect that KeyKode is not present. Normally it is set to 10 feet.

6.10.5 Project Configuration - Capture Settings

To configure the Event Capture settings select the Project Configuration window (**Project** menu, **Project Configuration** command) then click on the "Capture" Tab with the mouse.



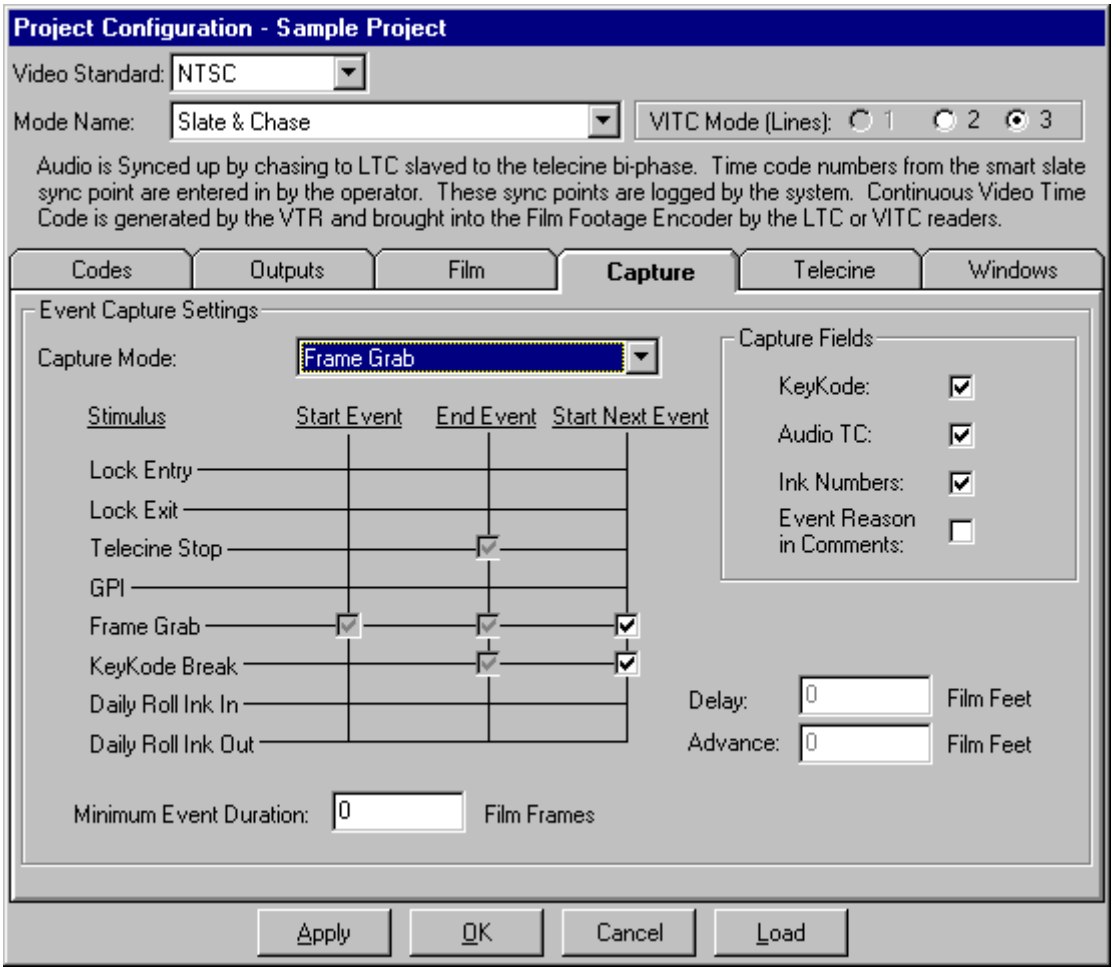
- **Capture Mode:** – Choose the Mode of Capture that the system will use in detecting event occurrences. The grid underneath the Capture mode shows the possible triggers to start events, stop events, and to automatically start new events at the end of the current event. The small boxes with check marks show the combinations of event triggers that are enabled for the particular Capture mode. Grayed out check marks are always enabled. The white check-boxes

can be optionally enabled by the user to customize the capture mode. See Capture Modes for information about selecting the correct capture mode for your application.

- **Minimum Event Duration:** Specifies a minimum duration (in film frames) for an event to be considered valid. Set this value to zero to log all Events. This value may be used to automatically throw away false events caused by Audio that is not in sync, or when the user aborts the transfer prematurely.
- **Capture Fields:** Check the boxes to indicate if you want the KeyKode, Audio Time code or Ink numbers captured into the event log. Comments indicating the Event stimulus at the event start and stop may also be logged.

6.10.6 Capture Modes

KeyLog TRACKER™ offers you several different ways of creating a log of your telecine session. This allows you to work in the mode that best suits your application. Use the Add/Edit System Configuration - Capture Tab if you are setting the capture mode for one of the System Configuration, or the Project Configuration - Capture Tab if you are setting the capture mode from within a project.



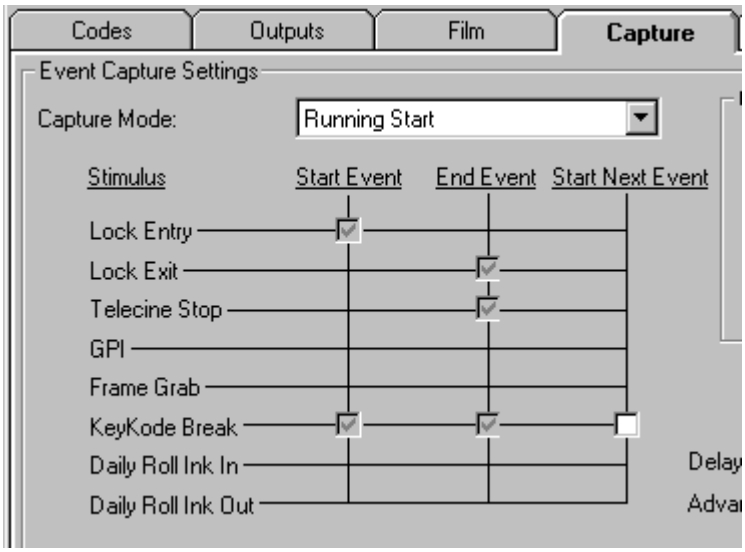
The Capture Mode dropdown selects one of the six capture methods available. The grid underneath shows the possible triggers to start events, stop events, and to automatically start new events at the end of the current event. The small boxes with check marks show the combinations of event triggers

that are enabled for the particular Capture mode. Grayed out check marks are always enabled. The white check-boxes can be optionally enabled by the user to customize the capture mode.

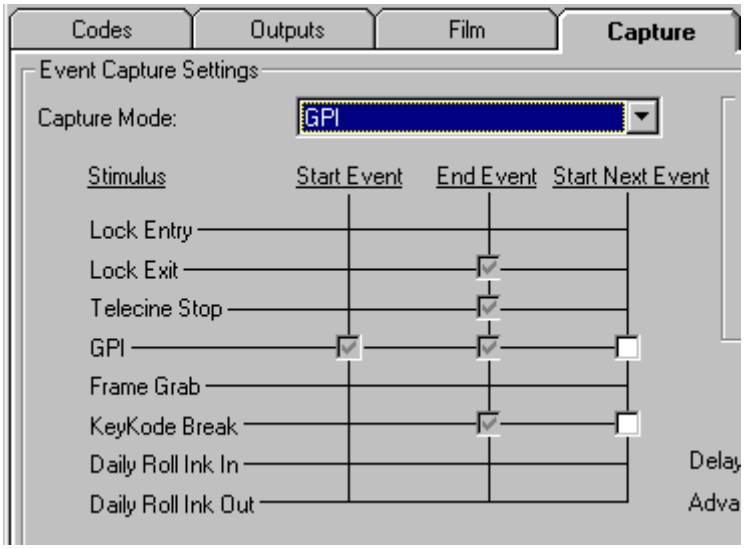
The **Minimum Event Duration** field specifies a minimum duration (in film frames) for an event to be considered valid. Set this value to zero to log all Events. This value may be used to automatically throw away false events caused by Audio that is not in sync, or when the user aborts the transfer prematurely.

The following descriptions give an overview of the available capture modes.

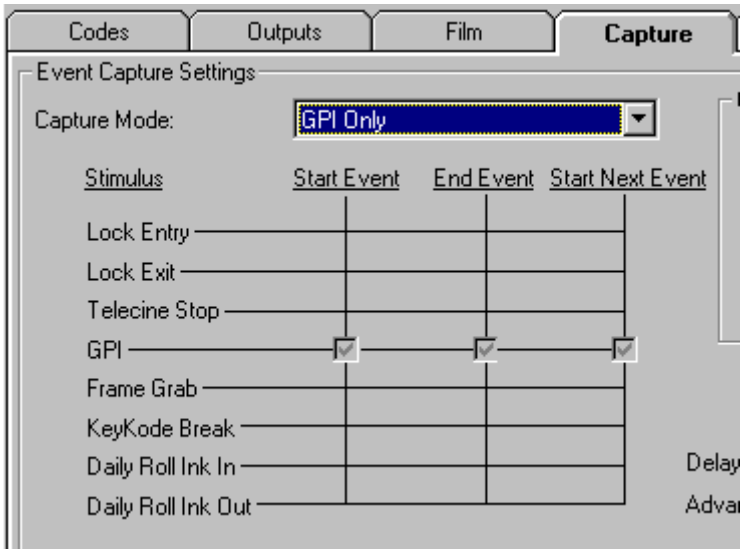
Running Start: The beginning of an event is triggered when the telecine achieves locked play speed. The end of the event is triggered when the telecine loses locked play speed, or when a KeyKode break is encountered. KeyKode breaks can optionally start new events when they complete an event. This mode is mostly used to log only the heads and tails of each camera roll.



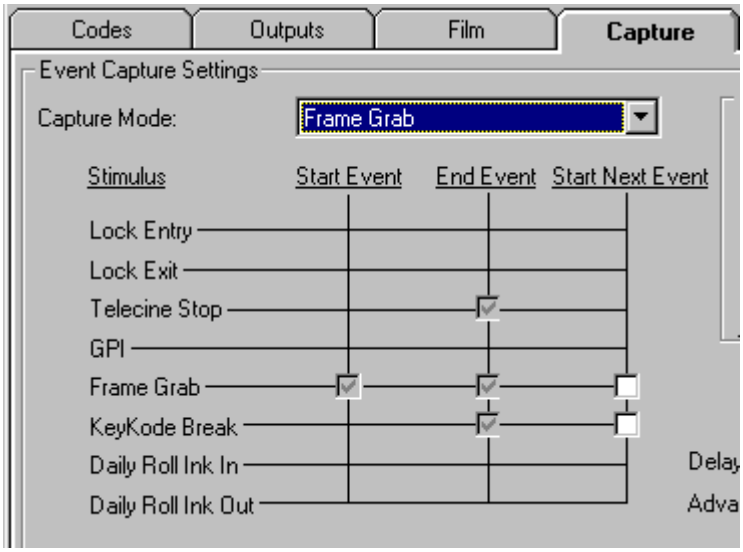
GPI: Issuing a GPI closure to the 4025TR triggers starts an event. The end of the event is triggered when the 4025TR receives another GPI closure, when the telecine loses locked play speed, or when a KeyKode break is encountered. KeyKode breaks and GPI closures can optionally start new events when they are encountered during an event. This mode is commonly used when a telecine Edit controller issues GPI outputs each time an edit is performed.



GPI Only: Issuing a GPI closure to the 4025TR triggers the beginning of an event. Another GPI closure signals the end of the event. GPI closures can optionally start new events when they complete an event.



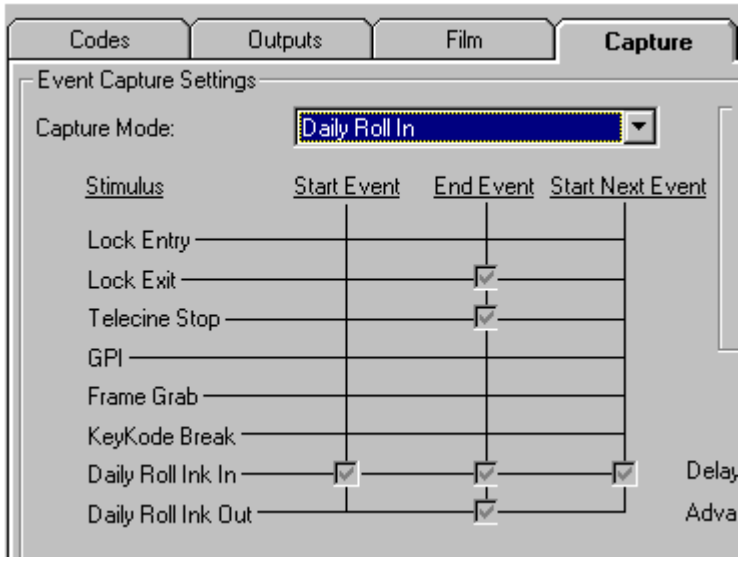
Frame Grab: The beginning of an event is triggered by a Frame Grab command to the 4025TR from KeyLog TRACKER™. The end of the event is triggered when the 4025TR receives another Frame Grab command, when the telecine loses locked play speed, or when a KeyKode break is encountered. KeyKode breaks and Frame Grabs can optionally start new events when they complete an event. A frame Grab command is issued by pressing the Grab button with the mouse, or pressing Alt-G or F9 keys on the keyboard.



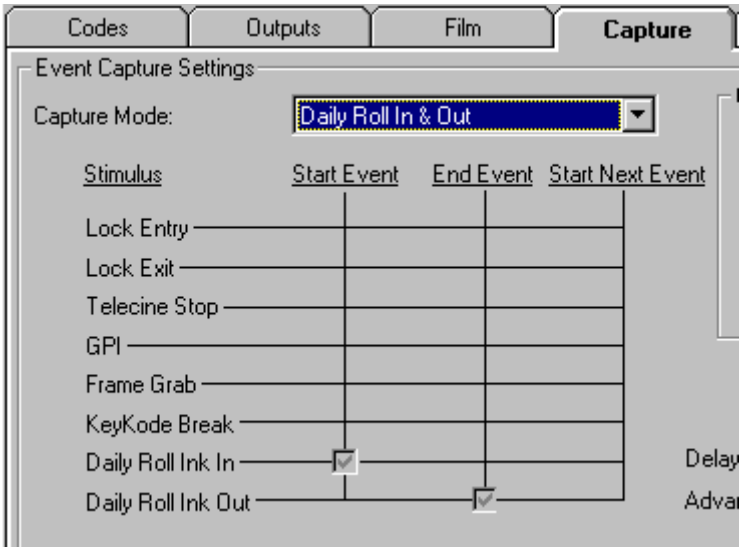
Two additional modes allow you to capture at pre-determined specific film frame numbers. In order to use these capture modes you need to enter the desired capture points into Daily Roll events. When the Ink number register matches one of these points a Daily In or Daily Out event stimulus is generated. These modes are commonly used when logging print dailies.

The Delay In capture value allows you to delay the actual In capture point so that it is away from the KeyKode or Audio time code break. The Advance Out capture value allows you to advance the actual Out capture point so that it is away from the KeyKode or Audio time code break.

Daily In: The beginning of an event is triggered when the foot and frames of the Ink number matches the In point of the current Daily Roll record. The end of the event and the start of a new event is triggered when Ink number matches the In point of the next Daily Roll record. On the last Daily roll record, a Daily Out frame number can be entered to end the last event.

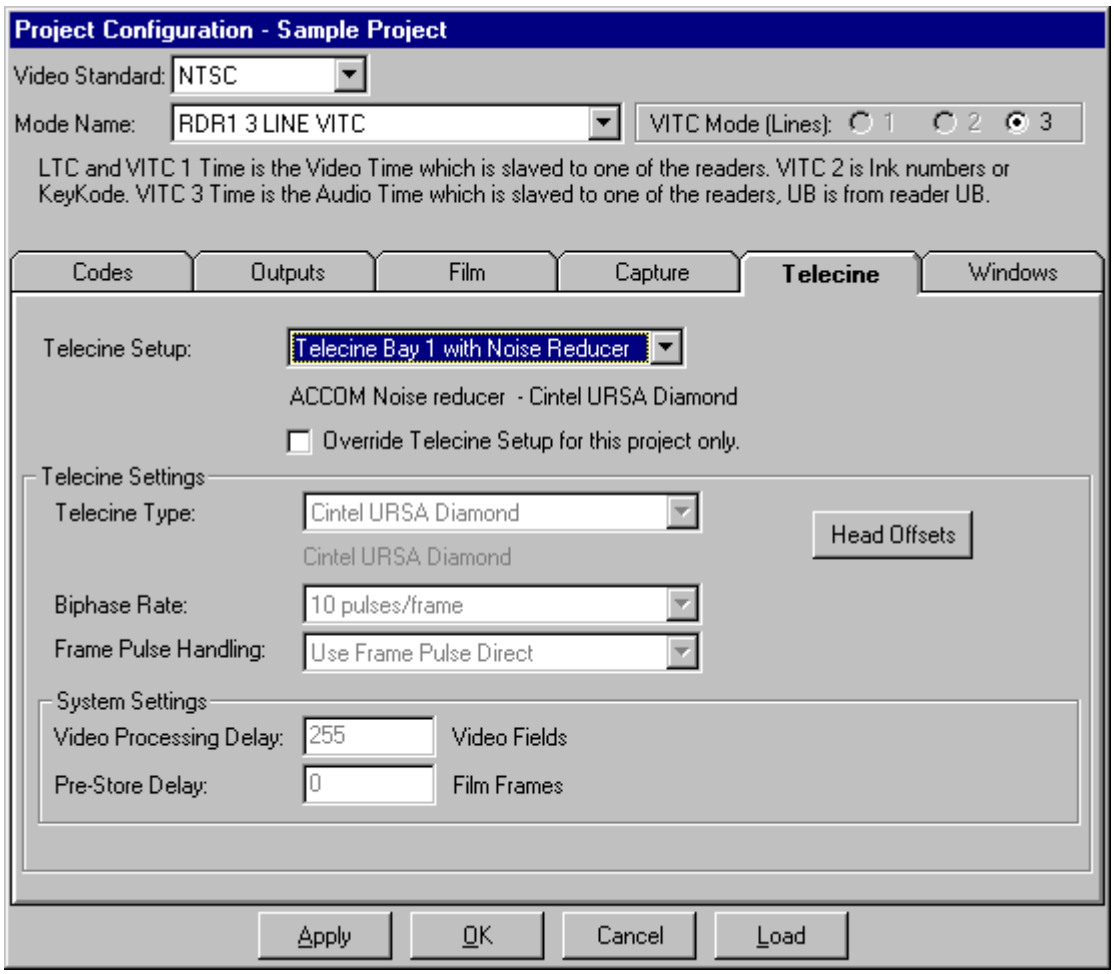


Daily In and Out: The beginning of an event is triggered when the foot and frames of the Ink number matches the In point of the current Daily Roll record. The end of the event is triggered when Ink number matches the Out point of the current Daily Roll record.



6.10.7 Project Configurations - Telecine Settings

To configure the Telecine settings used for this project select the Project Configuration window (**Project** menu, **Project Configuration** command) then click on the “Telecine” Tab with the mouse.



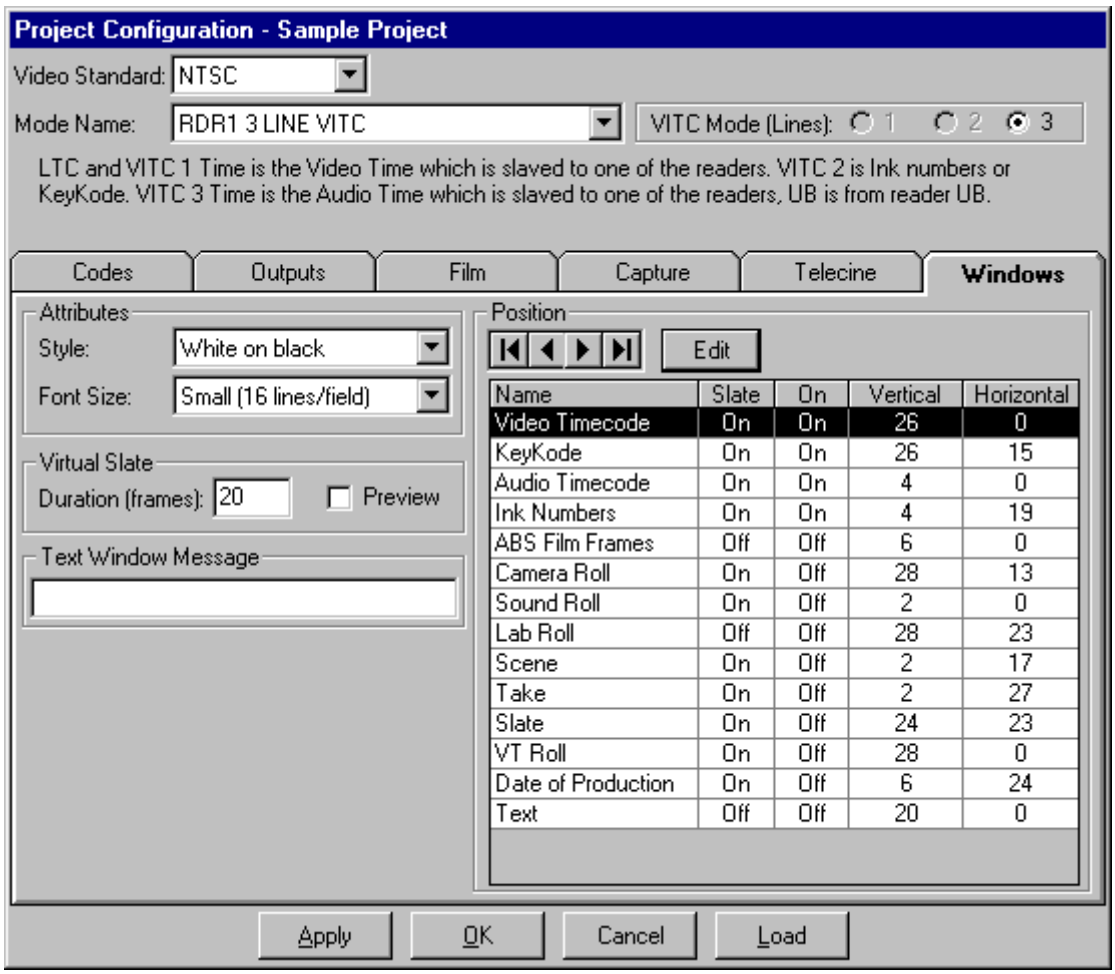
- **Telecine Setup** – This drop down list provides you with a list of pre set Telecine Setups. You may choose one from the drop down list or choose Override, by clicking on the box, and specify your own settings in the "Override Settings" Area.
-

If there is a check mark in the "Override Telecine Setup" box, this means the override is enabled. To disable it, you must click on the box with the mouse.

- **Override Settings:** These settings are used when the Override check box is enabled. See "Edit Telecine Window" for information on how to set up the telecine override parameters.

6.10.8 Project Configuration - Windows Settings

To configure the Character Generator Window settings used for this project select the Project Configuration window (**Project** menu, **Project Configuration** command) then click on the "Windows" Tab with the mouse.



Attributes:

- **Style:** Choose the format for the Character Burn-in Windows displayed on the Video Monitor.
- **Font Size:** Choose from one of 3 vertical character sizes for the character display windows.

Virtual Slate Length:

Enter the length of time in video frames that the virtual slate is to be displayed. The virtual slate allows you to configure various character display windows to be on for a specified length of time at the beginning of each event.

Virtual Slate Preview: Check this box to turn on all the windows enabled for the virtual slate. This allows you to see the relative positions of the various windows when positioning other windows. When you close the configuration window the Virtual slate preview will be turned off.

Text Window Message:

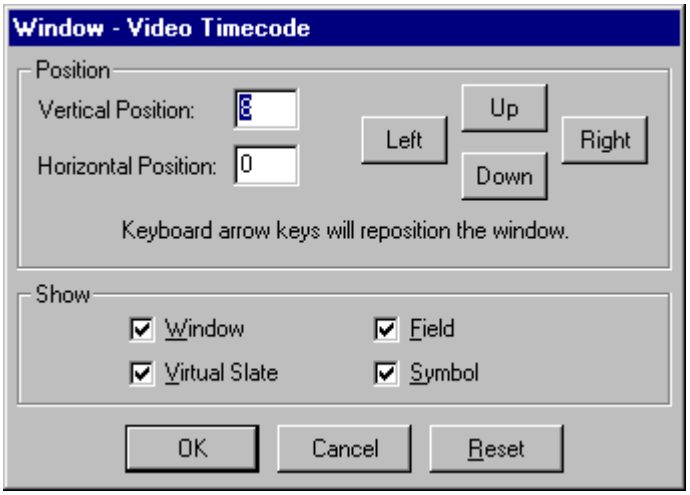
You can enter an alphanumeric text message up to 32 characters long to be displayed on the video monitor. The text window must be On and you must press the Apply button in order to view the Text window.

Position:

This area shows a list of the available character windows, each with its attributes. The “Slate” column shows which windows are enabled for the virtual slate. The “On” column shows which windows are

permanently On. The “Vertical” and “Horizontal” columns show the window’s relative position on the screen.

In order to change the attributes of a window, first select it by using the arrow buttons or click on the window name with the mouse. Then press the EDIT button, or double click on the window name, or press the Enter key on the keyboard. You can make changes to the attributes using the Window dialog box. The respective character window will be highlighted on the video monitor.



Click on the Window check box to permanently turn on the window.

Click on the Virtual Slate check box to turn on the window when the virtual slate is on.

Click on the Display Fields check box to display the field information for Timecode values.

Click on the Display Symbols check box to turn on Display Symbols to the left of the character window. When you are positioning the KeyKode or Ink number windows this check box enables the Prefix part of the number.

If there is a check mark in the box then the option is already enabled. To disable the option click on the appropriate box.

To position the window use the keyboard cursor keys, or press the position buttons on the screen with the mouse.

Buttons

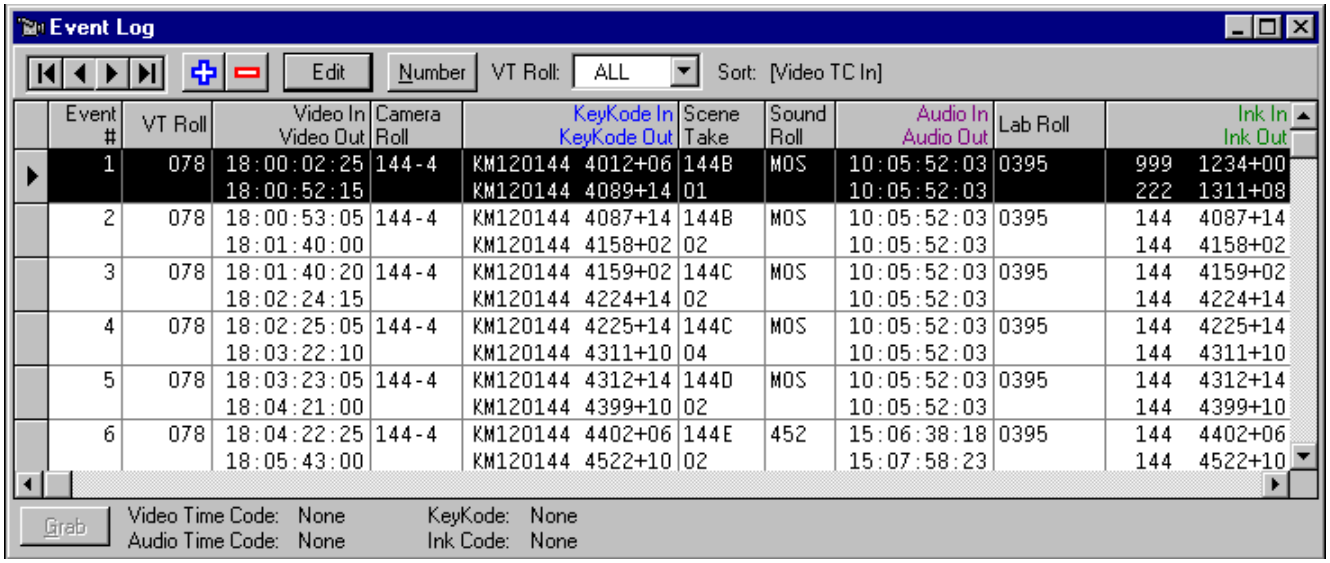
OK	Saves the new window attributes.
Cancel	Reverts back to the old window attributes.
Reset	Loads the default window attributes in.

For Database control information Please see “Databases and Records”

6.11 Event Log

6.11.1 Event Log Window

The Event Log window (**Project** menu, **Event Log window** command) shows a Log of all the events for the current project. For fundamentals regarding the maintenance of the Event Log please review the "Databases and Records" overview.



Event #	VT Roll	Video In / Video Out	Camera Roll	KeyKode In / KeyKode Out	Scene / Take	Sound Roll	Audio In / Audio Out	Lab Roll	Ink In / Ink Out
1	078	18:00:02:25 18:00:52:15	144-4	KM120144 4012+06 KM120144 4089+14	144B 01	MOS	10:05:52:03 10:05:52:03	0395	999 1234+00 222 1311+08
2	078	18:00:53:05 18:01:40:00	144-4	KM120144 4087+14 KM120144 4158+02	144B 02	MOS	10:05:52:03 10:05:52:03	0395	144 4087+14 144 4158+02
3	078	18:01:40:20 18:02:24:15	144-4	KM120144 4159+02 KM120144 4224+14	144C 02	MOS	10:05:52:03 10:05:52:03	0395	144 4159+02 144 4224+14
4	078	18:02:25:05 18:03:22:10	144-4	KM120144 4225+14 KM120144 4311+10	144C 04	MOS	10:05:52:03 10:05:52:03	0395	144 4225+14 144 4311+10
5	078	18:03:23:05 18:04:21:00	144-4	KM120144 4312+14 KM120144 4399+10	144D 02	MOS	10:05:52:03 10:05:52:03	0395	144 4312+14 144 4399+10
6	078	18:04:22:25 18:05:43:00	144-4	KM120144 4402+06 KM120144 4522+10	144E 02	452	15:06:38:18 15:07:58:23	0395	144 4402+06 144 4522+10

The **VT Roll Drop Down** is used to choose what data gets displayed in the current Event Log window. If you have multiple VT Rolls, then this drop down allows you to display all the Events related to the specific VT Roll Number or All the VT Rolls. The VT Roll drop down list shows all VT Rolls that have been defined in the project. (VT Roll Window)

- To manually enter a New Event record into the database press the button. See "Add/Edit Event Window" for an overview of the data that is displayed in the Event Log window.
- To delete the currently highlighted record from the database press the button. You will be prompted to confirm your deletion.
- To edit an existing Event record, first select the record in the list and then click the Edit button. You may also double click the entry that you wish to edit. See "Add/Edit Event Window".

To change the sorting order of the Events, right-click on the column that you wish to sort by. The sort order is displayed in the window header, next to the VT Roll number. To sort in descending order right-click on the column again.

To renumber all the Events for the selected VTRolls, press the Number button. The Events will be sequentially numbered by increments of one from whatever value the user supplies.

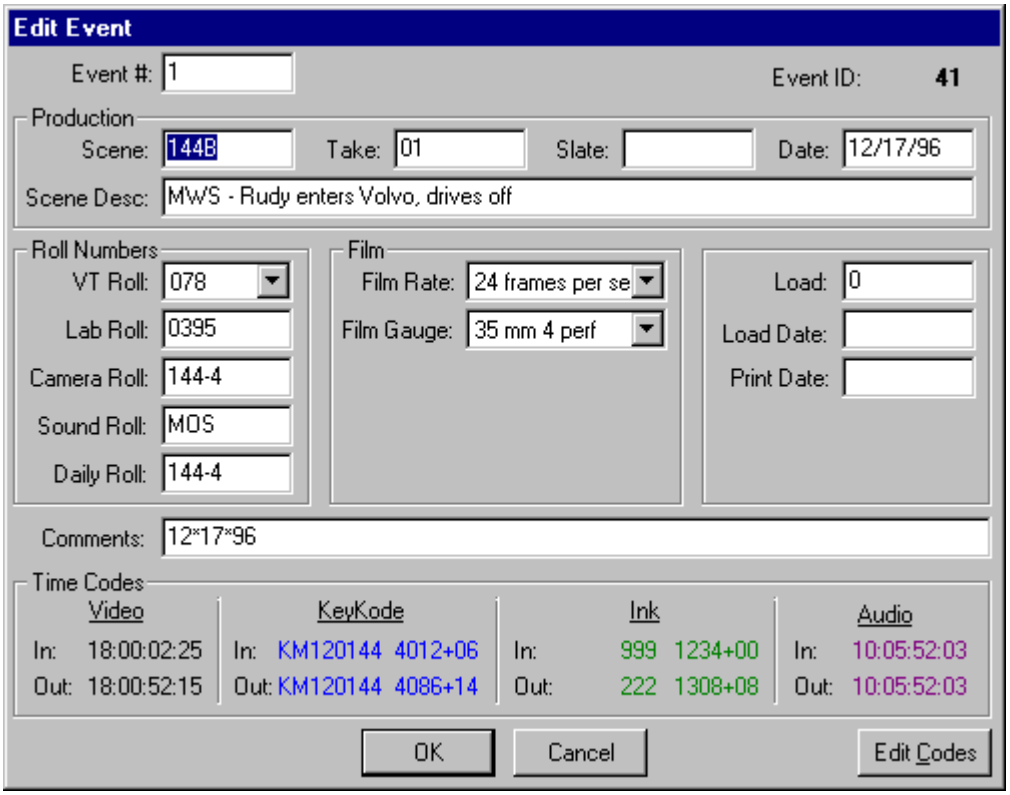
For more general information on working with databases in KeyLog TRACKER™ see ("Databases and Records").

If you require information regarding the data displayed inside the grid layout see "Add/Edit Event Window".

6.11.2 Add/Edit Event Window

This screen is used to add new events to the Events database of a project, or to edit the data of an existing event. To access the Edit Event screen, select the event in the Event Log Window that you would like to change. Then either double click on it, or click on the Edit button.

To add a new event, select the event in the Event Log Window where you want to add the new event. (New events will be added after the selected event.) Then press the button. Selected data from the previously highlighted record will be copied into the new record.

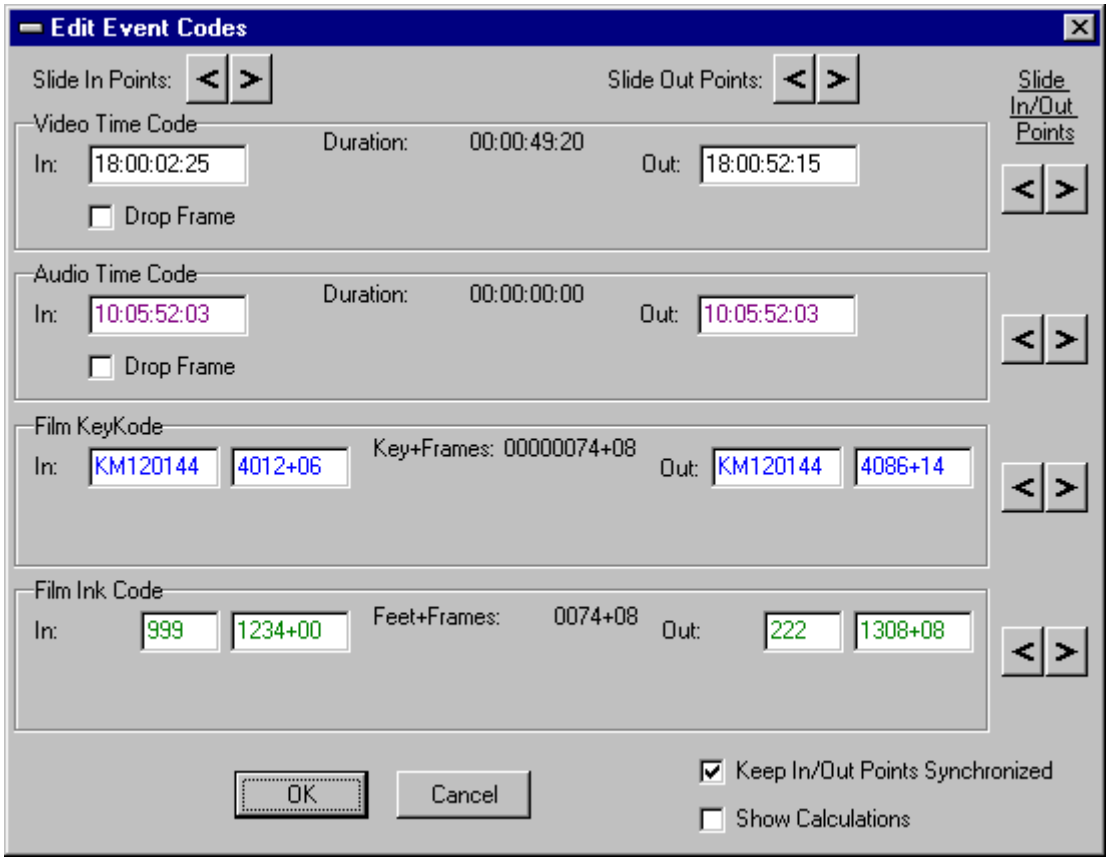


- **Event #:** When you start a new VT Roll in a project and log your first Event, it will be Event # "1". Subsequent events will be assigned consecutive event numbers. If you are adding a new event manually, the event number will default to the event number of the highlighted event plus 1. If you want to renumber the events see "Event Log Window"
- **Production and Roll Number** When capturing events this data is automatically transferred into the event from the Production/Daily Roll Window. When adding new events, this data is copied from the previously highlighted event, except that the take number will be incremented by 1 from the previous event.
- **Film:**
  - **Film Rate:** This is the rate at which the film was transferred (i.e. 24fps, 30fps) Select the correct film transfer rate from the Drop Down List.
  - **Film Gauge:** This is the film type (i.e. 16mm, 35mm 4 perf, 35mm 3 perf) Select the correct Film Gauge from the Drop Down List.
  - **Perf In, Perf Out:** These values are only used for 35 mm 3 perf film formats. Enter the perf orientation of the In and Out points respectively.

- **Comments:** This area has been provided for additional user information regarding the current selected Event.
- **Time Codes:** This section displays the Time Code, KeyKode and Ink Code information related to the Event. To Edit or change the Time Codes click the Edit Codes button. See "Edit Event Codes Window". Only the capture fields checked in the Configuration Window - Capture tab are shown.
- **Other:**
  - **Load:** The load number is used to track how the transferred material will be loaded into a non-linear editing system.
  - **Load Date:** The Load Date is the date on which the material was loaded into a non-linear editor.
  - **Print Date:** This is the date the film negative was printed.
- **Event ID:** This is an internal Database housekeeping function used to speed the indexing of the entries in the underlying database. It is automatically assigned by KEYLOG TRACKER™ and can not be changed by the user.

6.11.3 Edit Event Codes Window

This screen is used to change the Time Code, KeyKode or Ink code values associated with an event. To access this screen, click the Edit Codes button on the Add/Edit Event Window.



Video and Audio Time Codes, KeyKode and Ink code that define an event are displayed on this screen. The **IN** column displays the codes associated with the Event In Point. The **OUT** column displays the codes associated with the Event Out Point.

If valid In and Out Point values are entered into the respective Codes areas, KeyLog TRACKER™ will automatically calculate and display the duration. Only the capture fields checked in the Configuration Window - Capture tab are shown. If the durations match each other, then the "**Keep In/Out Points Synchronized**" check box will be checked. When this box is checked, you can **not** enter numeric data into any of the fields. You will only be able to move the In or Out Points by using the  buttons.

To move all the In Point values together use the 

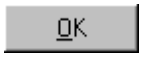
buttons at the top left of the window.

To move the Out Points use the 

buttons at the top right of the window. Timecode values will move to the next A frame, and all event durations will be adjusted.

To slide one of the codes with respect to the others, use the 

buttons to the right of the code display. The overall event duration will remain the same.

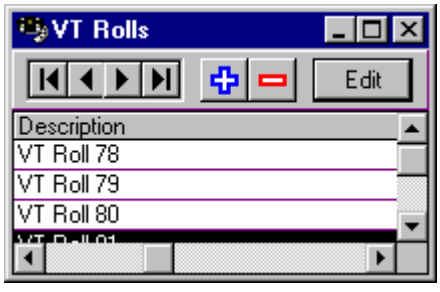
To manually enter new values into the various registers, click the "**Keep In/Out Points Synchronized**" check box so that it is clear. **Video Time Code, Audio Time Code, KeyKode** and **Ink Code** numbers can be entered in the appropriate fields. The **Drop Frame** check box is used to select whether the time code value is in the Drop Frame format or not. When you press the 

button to accept the new data, KEYLOG TRACKER™ will calculate the Out Points and check the integrity of the data you have entered. If the duration for any one of the codes is zero, it will be ignored in the calculations. To display the duration calculations, click on the "**Show Calculations**" check box.

6.12 VT Rolls

6.12.1 VT Rolls Window

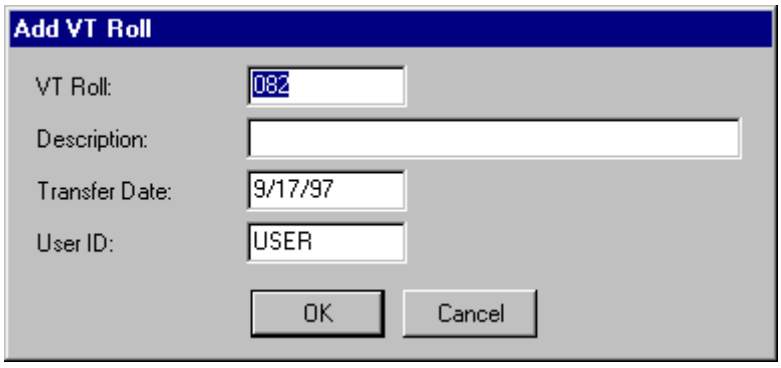
The VT Rolls window (**Project** menu, **VT Roll Window** command) lists all the Video Tape Rolls associated with the current project.



The arrows at the top of the window allow you to select a VT Roll from the list. To move to the next record, select the right arrow. To choose the previous record, select the left arrow. To jump to the end

of the records select the right arrow with the vertical line, and use the left arrow with the vertical line to jump to the first record.

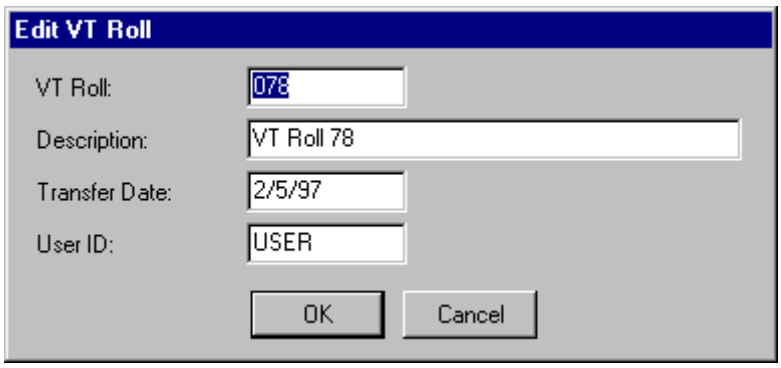
To create a new videotape roll in the project press the button. KeyLog TRACKER™ opens the Add VT Roll window.



The VT Roll defaults to the highest VT Roll number plus one, but you can change this number if you wish. The Description field allows you to enter any descriptive text that will help you in identifying this VT Roll. The Transfer date is automatically set to today's date. You may change this date if you so desire. The User ID field is automatically set to the User ID you entered when you started KeyLog TRACKER™. If you would like another User ID to be automatically entered in this field, close your project, close KeyLog TRACKER™, and re-start KeyLog TRACKER™ using the desired User ID. Otherwise just type the desired User ID into the appropriate field. Press Okay to save the video tape roll information

To delete the currently highlighted videotape roll from the project press the button. You will be prompted to confirm your that you want to delete the video tape roll and the events that have been logged in that roll.

To change the VT Roll number or description of an existing video tape roll, select the VT Roll from the list by using the arrow buttons or by clicking with the mouse. Then click the Edit button. You may also double click the entry that you wish to edit. You can edit the VT Roll information in the Edit VT Roll Window.



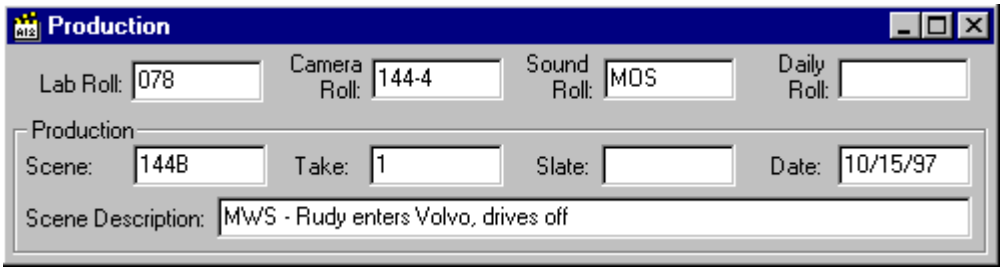
For more general information on working with databases in KeyLog TRACKER™ see ("Databases and Records").

6.13 Production/Daily Roll

6.13.1 Production/Daily Roll Window

The Production window (**Project** menu, **Production/Daily Roll Window** command) shows the current production data that will be inserted into the next event that is captured, if you do **not** have a Daily Roll open.

Tip: You can pre-enter production data for a complete transfer session into a Dailies Roll file. (See "Daily Roll Window")



The Production window allows the user to enter Production data for the material that you are currently transferring. Any data that is entered into this screen will be captured when the next event is logged. This information will also be displayed on the 4025TR character generator screen if the appropriate window is enabled for display. To invoke the process that transmits the data entered to the 4025TR you **must** Tab away from the field that you entered data into, or click on another field or window on the screen. This "Lost Focus" event tells KeyLog TRACKER™ to send all information in the Production window to the 4025TR. To change what information is displayed by the 4025TR see "Project Configuration Windows Settings".

Tip: You can change production data 'on the fly' by entering the data during an event. The entered data will be captured at the end of the current event. Make sure that your production character windows are turned off in this mode otherwise they will be changed in the middle of your transfer.

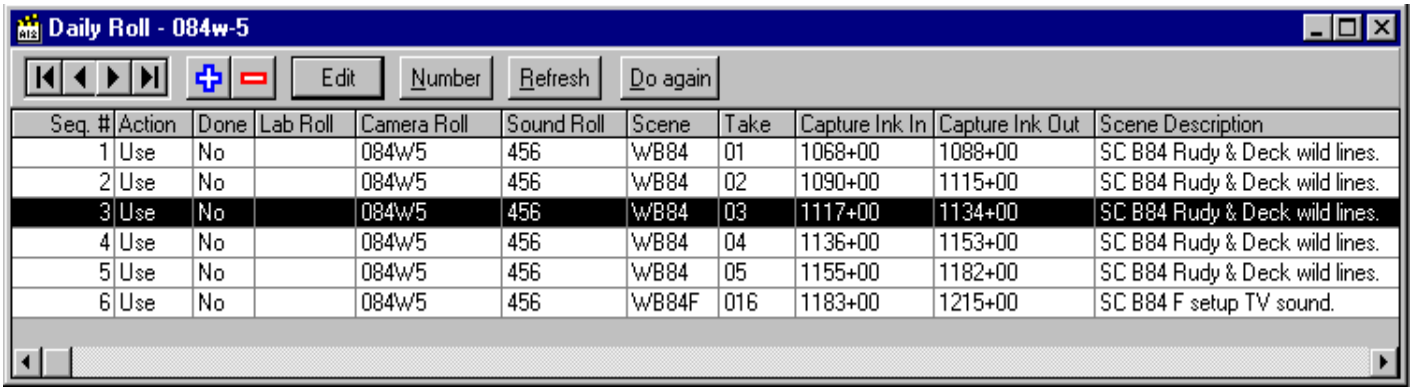
- The **Lab Roll, Camera Roll, Sound Roll, Daily Roll, Slate** and **Production Date** information can all be entered into the appropriate fields. This information is optional and will be maintained through new Events until the user changes the data.
- **Scene, Take:** The Scene number is optional and must be changed by the user. The Take number will automatically be set to "1" when the Scene Number is changed. As Events occur the Take value will be incremented by one automatically
- **Scene Description:** This information is stored and transferred to the Event Log when the Event occurs, and will not be displayed by the 4025TR.

6.13.2 Daily Roll Window

Prior to logging Events in the Event Log, you can pre-enter the production data for the film roll into a Daily Roll. At transfer time, production data from the Daily roll will be sent to the 4025TR character generator automatically, and transferred into the event log as events are captured.

In order to view the following window in KeyLog TRACKER™ you must first create a New Daily Roll File or Open an existing Daily Roll File. For an outline of this procedure please see **New Daily File** in

the Help Topic "File Menu" After you have created or opened the file, select **Project** from the drop down menus, and select **Production/Daily Roll** Window. You will see a window similar to the following:



Seq. #	Action	Done	Lab Roll	Camera Roll	Sound Roll	Scene	Take	Capture Ink In	Capture Ink Out	Scene Description
1	Use	No		084W5	456	WB84	01	1068+00	1088+00	SC B84 Rudy & Deck wild lines.
2	Use	No		084W5	456	WB84	02	1090+00	1115+00	SC B84 Rudy & Deck wild lines.
3	Use	No		084W5	456	WB84	03	1117+00	1134+00	SC B84 Rudy & Deck wild lines.
4	Use	No		084W5	456	WB84	04	1136+00	1153+00	SC B84 Rudy & Deck wild lines.
5	Use	No		084W5	456	WB84	05	1155+00	1182+00	SC B84 Rudy & Deck wild lines.
6	Use	No		084W5	456	WB84F	016	1183+00	1215+00	SC B84 F setup TV sound.

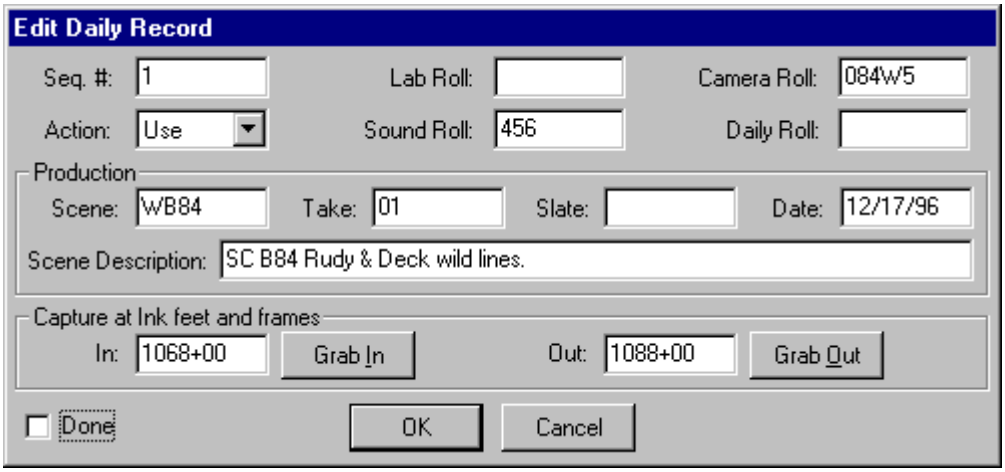
The Daily Roll window shows all the information related to the events of one particular Daily Roll. This gives the user a quick overview of the Daily Roll as well as the individual Events related to this Roll.

If you created a new Daily Roll File, there will not be any data shown for the database. For Database control information Please see "Databases and Records".

- To enter a New record simply click on the blue plus sign then see "Edit Daily Record Window". Data from the highlighted record will be copied into the new record.
- To delete the currently highlighted record from the Daily Roll press the button. You will be prompted to confirm your deletion.
- To edit an existing record Highlight the desired record and click to edit button Edit, then see "Edit Daily Record Window".
- The Number button is used to renumber all the Daily Roll records.
- The Do again button is used to reset the "done" status of each Daily Roll record to allow re-transfer of the Daily Roll material.

6.13.3 Edit Daily Record Window

The Edit Daily Record window shows the detail information about the currently selected record from the Daily Roll Window. This window is used to display or change the status of a Daily Roll Event, or enter new production data. If you chose to add a New Record the window title will display "Add Daily Record" instead of "Edit Daily Record".



- **Seq #:** The number displayed is either the Sequence number of the previously saved record that you opened for editing or the next available Sequence #. This number will automatically increment as new Records are entered in the Daily Roll. The 4025TR will not display this data.
- The **Lab Roll, Camera Roll, Sound Roll, Daily Roll, Slate** and **Production Date** information can all be entered into the appropriate fields. This information is optional and will be maintained through new Events until the user changes the data.
- **Scene, Take:** The Scene number is optional and must be changed by the user. The Take number will automatically be set to "1" when the Scene Number is changed. As Events occur the Take value will be incremented by one automatically
- **Scene Description:** This information is stored and transferred to the Event Log when the Event occurs, and will not be displayed by the 4025TR.
- **Done Box:** Once the Daily Roll Record's data had been transferred to the Event a check mark will appear in this box. Click on this box to reset the 'Done' status of this record so it can be re-used. This is typically done if material needs to be re-transferred.
- **Action:** You may specify weather or not KeyLog TRACKER™ should use or skip this record when capturing event data.
- **Capture at Ink Feet and Frames:** You may enter the Ink number where you want to start and end events. These In and Out points will be used in the Daily Roll In and Daily Roll In and Out Capture modes. Press the Grab In and Grab Out buttons to place the current Ink number in to the In and Out capture points respectively.
  When you have the Daily Roll In Capture mode selected, the current Ink number will be automatically be placed into the In Point text box when you create a new Daily Roll event.

  When you have the Daily Roll In and Out Capture mode selected, the Ink Out number from the previous Daily Roll event will be automatically be placed into the In Point text box when you create a new Daily Roll event. The current Ink number will also be automatically be placed into the Out Point text box.

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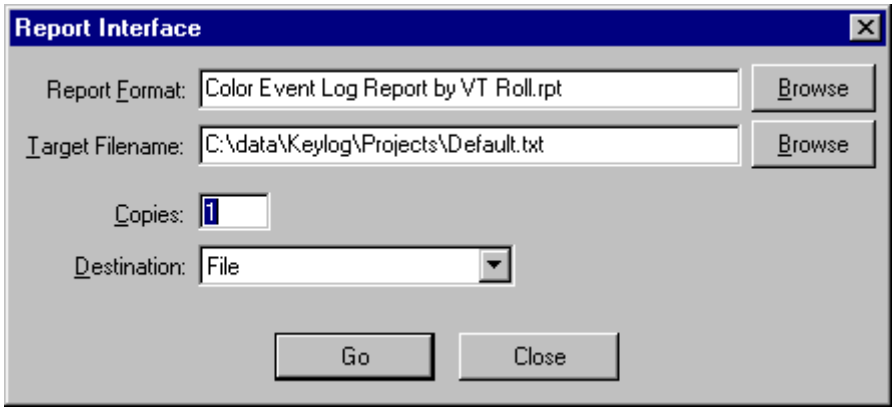
7. Reports and Exporting Data

7.1 Reports Window

The Reports Window (**File** menus, **Reports…** command) will allow you to select a report format for printing out the details of the event log. You must have a project open in order to generate reports.



- **Report Format:** shows the currently select report format. To choose another report format press the Browse button. The Open File dialog box will be shown listing the available report definition files (*.rpt). Double click on the report format you desire.
- **Target Filename:** This box is only shown if the report destination is set to File. The filename of the last report file you created is shown. Long filenames will show the drive letter and the last 30 characters of the file name. Enter the filename where you want the report saved. To choose another location to save the report file press the Browse button. The Save File dialog box will be shown allowing you to choose the file name and location.
- **Copies:** Enter the number of copies of the report you desire.
- **Destination:** Choose whether the report will be shown on the screen, sent to the default Windows printer, or saved to a file.

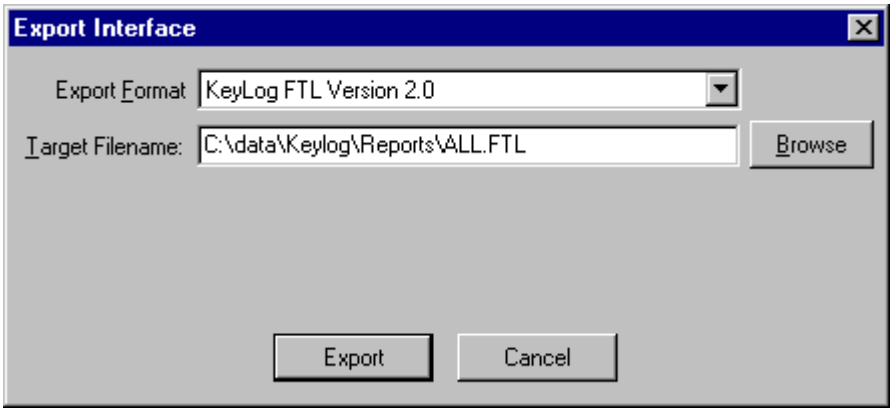
Note: The default windows printer must be set using the **Settings | Printers** on the Start menu.

Buttons:

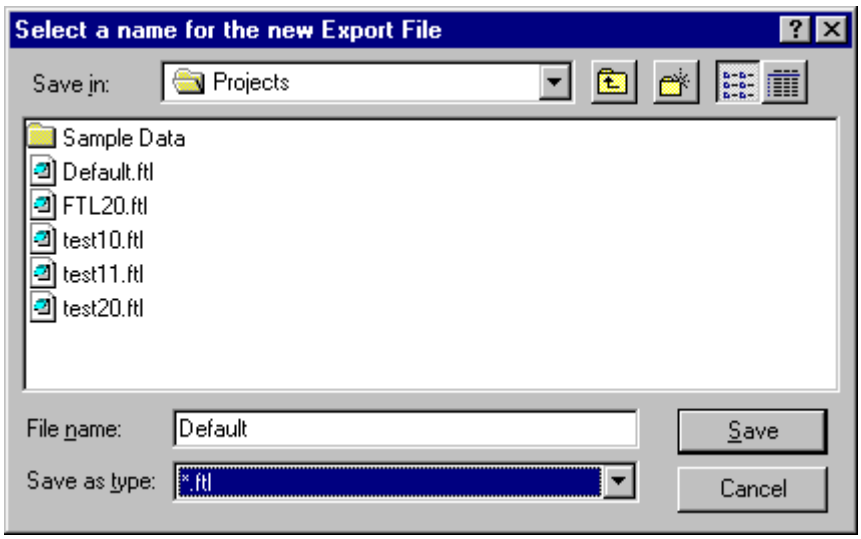
- Go Proceed with generating the report.
- Close Close the Reports interface Window and return to the KeyLog TRACKER™ Desktop

7.2 Export Window

The Export Window (**File** menu, **Export…** command) will allow you to export the event log data in a variety of formats. These export files are typically used to provide data to non linear editing systems. You must have a project open in order to generate export files.



- **Export Format:** shows the currently select export file format. Choose the desired export format from the dropdown list. Double click on the export file format you desire. At this time the available export file formats are:
  - **KeyLog FTL Version 1.0** This FTL is compatible with Key-Log versions up to 1.07. This format is provided for backward compatibility only. It may be required for some non-linear editors that do not correctly handle the newer versions. **DO NOT use this version if you are transferring 35mm 3 perf material.**
  - **KeyLog FTL Version 1.1** This FTL is compatible with Key-Log versions 1.11 to 1.14. Most non-linear editors understand this format. It should be used if you are in doubt as to the correct version of FTL to use.
  - **KeyLog FTL Version 1.1 with INK numbers** This FTL is compatible with Key-Log versions 1.11 to 1.14 and has INK numbers in the KeyKode fields. Use this format if you want to transfer INK number information to the non-linear editor.
  - **KeyLog FTL Version 2.0** This FTL is compatible with Key-Log version 2.0 and contains both KeyKode numbers and Ink numbers. Not all editing systems will correctly parse this version of the FTL.
  - **AVID ALE** The ALE file format is the preferred format when exporting data to AVID editing systems.
  - **Lightworks ODB** The ODB file format is the preferred format when exporting data to Lightworks editing systems.
  - **TLC FLEx** The FLEx file format is compatible with version 1005 of the Film Log and EDL Exchange file format used by Time Logic Controllers and DaVinci and POGLE colour correctors. Most non-linear editors understand this format.
- **Target Filename:** Enter the filename of the export file saved. To choose another location to save the export file press the Browse button. The Save File dialog box will be shown allowing you to choose the file name and location.



Buttons:

- Export Proceed with generating the export file.
- Cancel Close the Export interface Window and return to the KeyLog TRACKER™ Desktop

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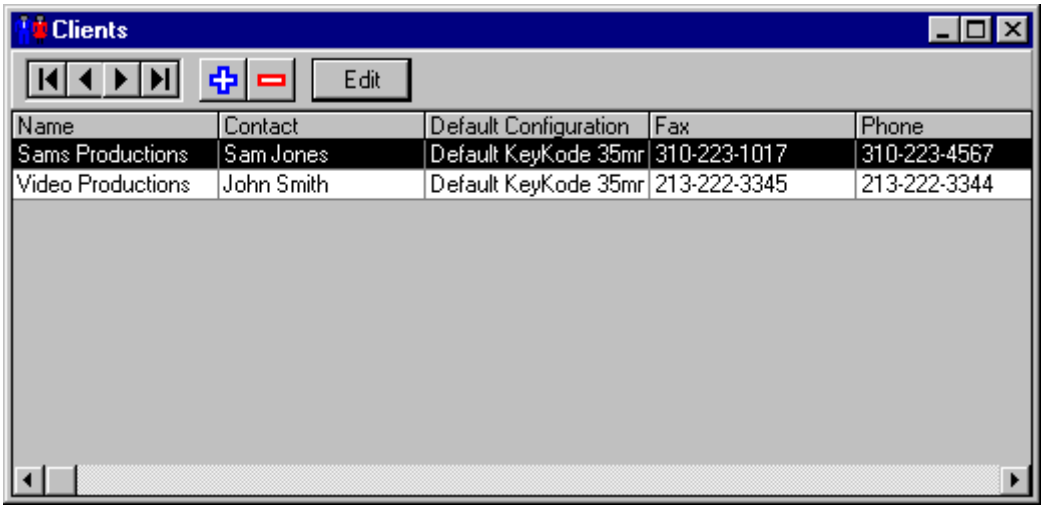
8. Clients

8.1 Clients Window

KeyLog TRACKER™ provides you with a convenient place to store information about your clients. The Clients window (**Edit** menu, **Client List…** command) allows you to add or delete clients and to edit the information stored for each client.



The arrows at the top of the window allow you to select a Client from the list. To move to the next record, select the right arrow. To choose the previous record, select the left arrow. To jump to the end of the records select the right arrow with the vertical line, and use the left arrow with the vertical line to jump to the first record.

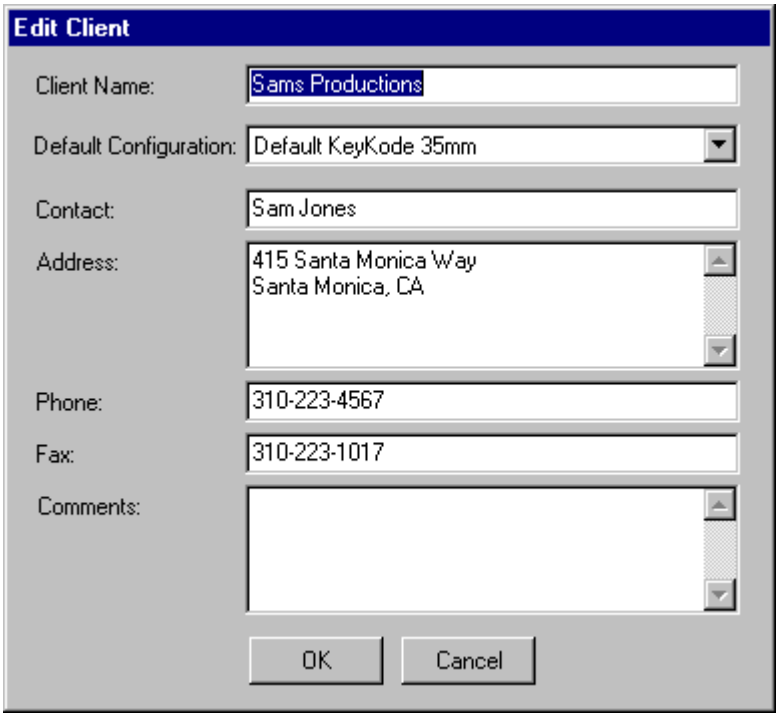
To create a new client press the button. The "Add Client Window" allows you to enter data relating to your new client.

To delete information for an existing client, the currently highlighted client, select the client from the list by using the arrow buttons or by clicking with the mouse. Then press the button. You will be prompted to confirm that you want to delete the information for this client.

To change the client name or description of an existing client, select the client from the list by using the arrow buttons or by clicking with the mouse. Then click the Edit button or double click the entry that you wish to edit. The "Edit Client Window" allows you to change data relating to the client.

For fundamentals regarding the maintenance of the Client List please review the "Databases and Records" overview.

8.2 Add/Edit Client Window



Client Name: The Client name is required in order to save the client information.

Default Configuration: When you associate this client with a new project, KeyLog TRACKER™ will automatically choose this hardware configuration and copy it into the project. See "Project Configuration Window

The remainder of the Client information is optional.

Contact: The name of the person that you may need to consult with or communicate with.

Address: Enter the Client's address.

Phone: Enter the Client's Phone number.

Fax: Enter the Client's Facsimile number.

Comments: The Description field allows you to enter any descriptive text that will help you in identifying this Client.

Click the OK button to update the database, click Cancel to go back to the Clients window without making any changes.

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