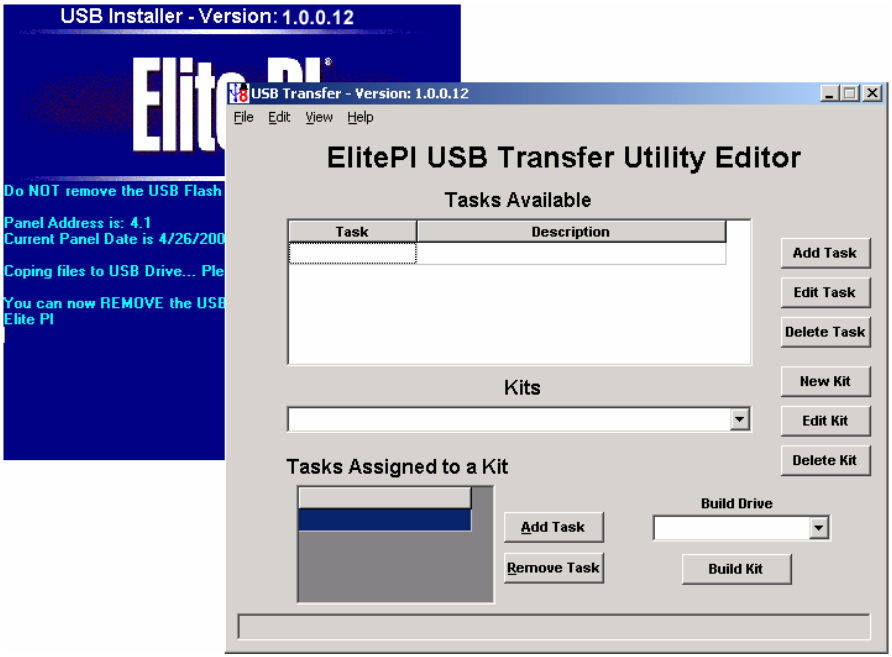
Elite PI®

USB Transfer



User's Manual

Version 1.0.0.12

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1 Introduction

The ElitePI® USB Transfer Utility is a tool that provides the ability to update collections, execute C.E. Electronics provided utilities retrieve collections and information, and set the time/date on an ElitePI. This utility provides an alternative to the traditional ElitePI Transfer Utility that is connected to the ElitePI Communications Link. It is possible, with this utility, to construct one installation package (Kit) on a USB Flash Drive (provided in this package) that will be able to update all the ElitePIs within a building or campus. This makes it a very efficient mechanism to update displays where the ElitePI Communications Link is unavailable.

2 Software Requirements

Transfer Computer

- Windows 98SE (Second Edition), Windows 2000 with SP3 or later, Windows XP
- An available USB (version 1.1 or later) port on the computer
- CD-ROM Drive
- At least 128 MB of Ram
- At least 10 MB of Disk Space

ElitePI

- ElitePI running version 1.69 or later of the Operating System.
- Accessible USB Port on the ElitePI. **PLEASE NOTE: USB port extender installation kits are available from C.E. Electronics.**

3 Installation Overview

The installation process depends on the version of the operating system on the transfer computer and as well as the ElitePI. For ElitePI OS versions between 1.69 and 2.0 it may be necessary to apply special updates to the OS. Most units in the field have the proper drivers installed but some may require updating. Contact a CE Electronics representative to determine if these special circumstances exist.

3.1 Installing the ElitePI USB Transfer Utility

This only discusses the software installation on your computer. Refer to the USB Hardware Upgrade Kit or the ElitePI installation guide for any hardware related instructions.

3.2 Transfer Computer

Steps 1: Insert the installation CD into the CD-ROM drive. If your drive is setup in windows to automatically auto detect then the installation screen **(Figure 1)** will appear.

Figure 1 - Main Installation window

If the installation screen does not appear then auto detect is disabled on your CD drive so it will be required to run the setup manually. To do this use the start button and select the run option.

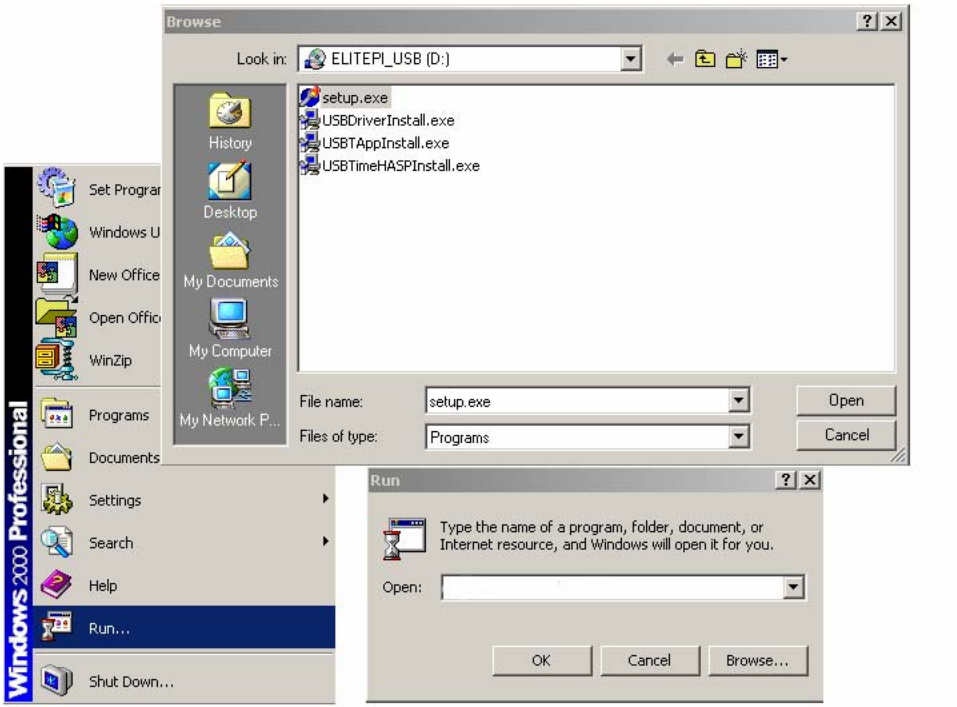

Figure 2 – Windows Taskbar Run

When the run window is open **(Figure 2)** press the BROWSE button and use the drop down to locate the CD drive. Look in the root directory **(Figure 2)** of the CD and select **setup.exe** then press the OPEN button. When returned to the run selection window press the OK button and the setup utility will execute. When the installation window appears **(Figure 1)** you will be presented with 2 options to select from

Installation Option	Description
Install Application	Installs the USB Transfer

Install Time HASP Drivers	If this option was purchased from C.E. Electronics then selecting this will install the USB Time HASP drivers. **PLEASE NOTE: If you have not purchased the Time HASP you should not install this option**

Step 2: Select the options required for your installation. Typically item 1 is the only one you would select

Only select option 2 if you purchased the Time HASP to update the ElitePI time and date.

Step 3: Once the options are selected press the INSTALL button which will begin the installation process.

Do not interfere with the installation process.

You will notice during the Time HASP driver installation that a prompt will occur at the end of the installation process. **PLEASE NOTE: Do NOT respond to the prompts, the installation utility will respond on your behalf.**

When installation of the selected items is completed, the INSTALL button on the installation window will become active.

3.3 Transfer Computers running Windows 98SE

For Transfer Computers running Windows 98SE it will be necessary to obtain special USB Flash Drive drivers for the flash drive. Contact a CE Electronics representative for an installation kit.

3.4 ElitePIs before OS version 2.0.

For those systems running the ElitePI OS before version 2.0, it may be required to apply some updates to the OS. Please contact a CE Electronics representative to determine if it will be necessary to apply field updates to these displays.

3.5 ElitePIs running OS version 2.0 or later

OS 2.0 and later is running the next generation OS and has complete support for both the USB Flash devices and the USB Time HASP. No additional actions need to be taken.

4 Quick Start Guide (Building Your First Kit)

So now that all the software is installed it is time to build a Kit. A **Kit** is the installation package you create (build) using the ElitePI USB Transfer Editor. A Kit is what is executed on the ElitePI.

This Quick start guide will teach you how to configure the editor for your ElitePI display environment, create a Task, apply a Task to a Kit then build a Kit onto a flash drive. In this exercise, we will setup the ElitePI USB Transfer Editor and create a Kit to update a collection on a group of displays. This is probably the most common task to be performed using this utility.

4.1 What do you need to get started

To prepare to use the ElitePI USB Transfer Editor it is necessary to have all the ElitePI physical addresses. These should have been setup prior to the installation of your ElitePI(s) so these should be documented and readily available. If this utility is an add-on to an existing ElitePI environment then it may be necessary to go to each ElitePI and update the physical addresses. Both the High and Low address rotaries need to be adjusted. **Appendix A** provides information regarding setting these addresses.

To install a collection on the ElitePI, an updated collection will be needed that was updated using the ElitePI Design editor. Make sure you know where the collection is saved on your computer. You will also need the USB Flash Drive that was provided with this product.

WARNING: There are numerous Flash Drives on the market today but the ElitePI will only work with SPECIFIC ones. Only use the Flash Drive provided with this product. Using unapproved Flash Drives may cause the ElitePI to malfunction and may require it to be returned to the factory for repair.

4.2 Configuring the Editor

There are 2 items that need to be setup in order to use the USB Transfer Utility. These items are your ElitePI physical addresses and the Time HASP (if you purchased that option).

To get the editor started, double-click on the desktop icon or by going to the taskbar and using the Start button: **Start -> Programs -> ElitePI -> ElitePI USB Transfer**. Once the editor is started up you will be presented with a screen like shown in **Figure 3**.

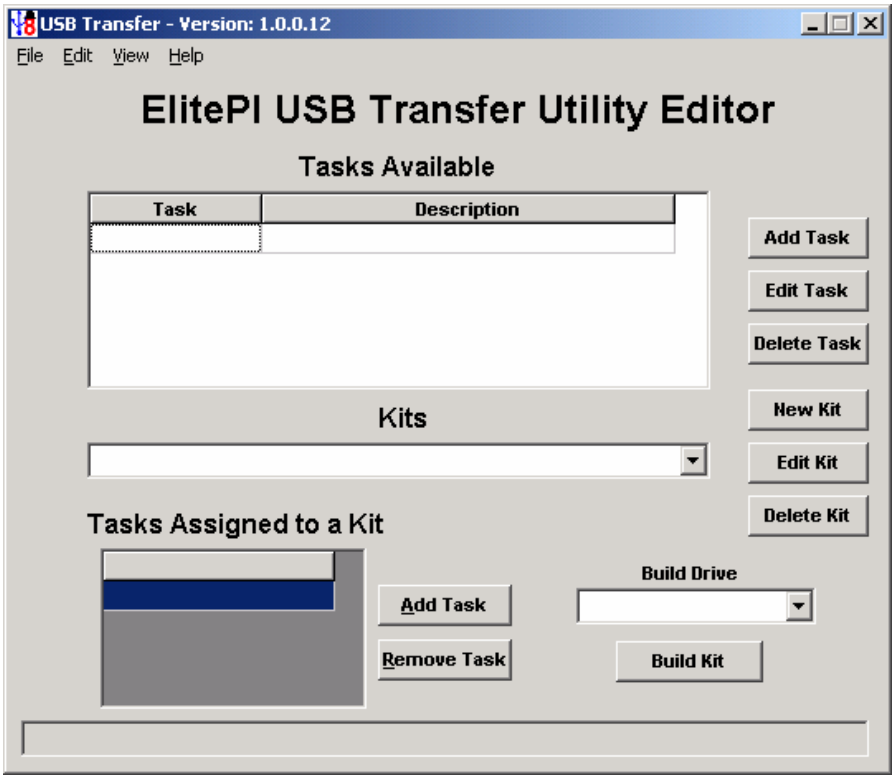

Figure 3 – ElitePI USB Transfer Editor

4.2.1 Entering the ElitePI Display's Addresses

After the editor starts up, go to its menu bar and select **Edit -> Displays**. The Display editor is presented **(Figure 4)** providing a grid

editor to enter information regarding each ElitePI. The Grid editor presents 4 columns:

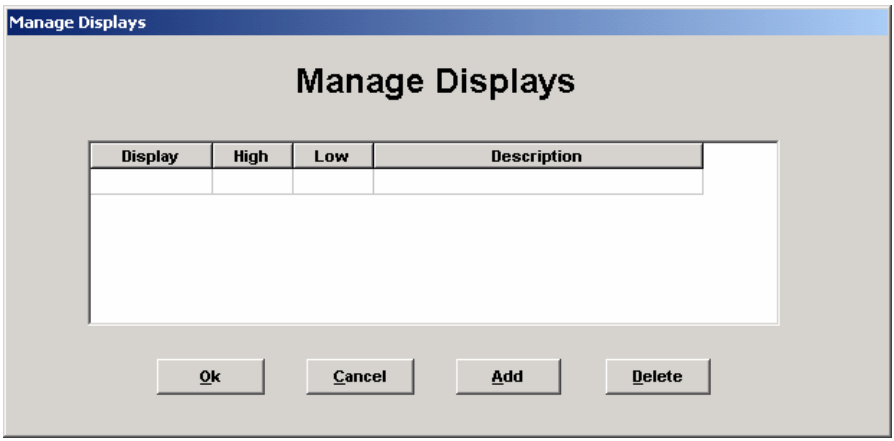

Figure 4 – ElitePI Display editor

Columns	Description
Name	Unique, 20 character field that is the name you wish for ElitePI assigned.
High	1 – 16 numeric value that describes the Physical High Address of the ElitePI
Low	1 – 16 numeric value that describes the Physical Low Address of the ElitePI
Description	Verbose description of the ElitePI display

The Grid editor acts similar to a spreadsheet that allows for tabbing to each column during data entry. So start in the Name field by selecting that cell with your mouse and enter the name that you wish to assign to that ElitePI. When finished use the tab key and move to the next cell to the right in the grid, which is the High Address cell. Enter the high address number. Press the tab key again and enter the low address number. Pressing the tab key again will place you in the description column where a verbose description of the ElitePI can be entered. If more ElitePIs need to be added, pressing the tab key will open a new row and place you the Name cell of that row.. If any errors occur during cell editing they will be caught immediately when

moving to a different cell and a message will be displayed describing the problem. You will be forced back into that cell to correct the error.

If you wish to delete a display you can use the mouse drag and drop method. Grab a cell in the row you wish to delete by placing the mouse pointer in the cell. Press and hold the left mouse button down then drag it out of the grid. Release the left mouse button on the window will cause the row to be dropped on the window and deleted from the grid. If you are not mouse savvy you can simply select a cell in the row you wish to delete by placing the mouse pointer on that cell and pressing the left mouse button. Once the cell is selected, press the DELETE button.

To add a record to the grid with a lot of records you can press the ADD button, which will create a new row at the bottom of the grid and place you there.

Once you are done entering car information you can press the OK Button to retain the display information entered. This will return you to the main editor window where you can go to the menu bar and select **File -> Save All** to save your work thus far. If you do NOT wish to retain the information you just edited press the CANCEL button on the window.

The grid editor works the same for all the editing grids in the USB Transfer Editor. So you can refer here if you have any problems using them.

4.2.2 Setting the Time HASP Time and Date

From the main menu select Edit->HASP. The Time HASP editing window will be opened which is shown in **Figure 5**. **PLEASE NOTE: If the HASP option is grayed out (not selectable) then the Time HASP driver has not been installed.**

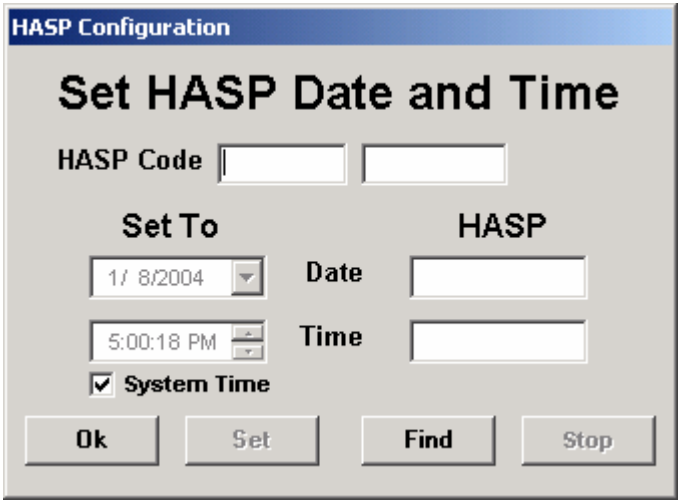

Figure 5 – Time HASP configuration

The first time you open this window a message stating that the Time HASP could not be located and an error stating that the HASP code needs to be entered will be displayed. Press the OK button to respond to those errors. Your Time HASP was provided to you with two password codes, enter them into the "HASP Code" boxes. Insert the Time HASP into a USB port on your computer and wait for the **red light** to come on. Press the FIND button on the Time HASP window. All the display boxes should go active and the current time/date on the Time HASP should be displayed. If an error is displayed make sure the proper password codes have been entered and the Time HASP **red light** is on. Correct the problem and attempt to find the Time HASP again.

Probably the Time HASP time and date are not correctly set. To set the time and match it to the current system time just press the SET button. After a second or two the Time HASP time and date in the "HASP" boxes should closely match what is in the "Set To" boxes or be fairly close. If you wish the time and date to a static value then uncheck the "System Time" checkbox. Set the time and date to the desired values and press the SET button.

There is a feature that allows you to stop the dynamic box updates for both the "Set To" and "HASP" boxes. Press the STOP button will do this. To reactivate the dynamic updating press the button again, which is now the START button.

The time and date on the HASP is now set, press the OK button to close the window and return you back to the main window. Save the configuration data to the database by selecting the **File -> Save All** option.

4.3 Creating and Editing a Task

A **Task** is a group of instructions that can be executed on a group of ElitePI displays. To edit a Task you first need to create one.

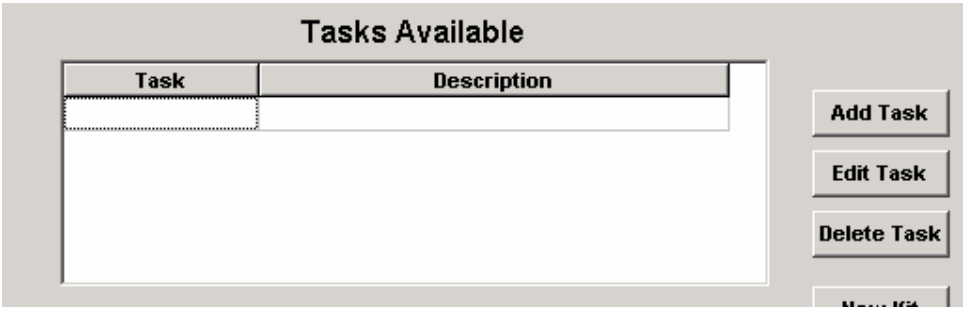

Figure 6 –Tasks Grid

On the main editor screen the top grid defines tasks (**Figure 6**). There are 2 columns in the grid that need to be filled in, which are:

Column	Description
Task Name	Unique 20 character name for the task. Usually a building identifier or ElitePI display group is used here.
Description	120 character verbose description of the task.

Use the grid editor like you did when editing the ElitePI display information to create a Task. You can go back later and create more if necessary but for now just do one so that you can understand how to setup a Task.

After you have entered the Task header information it is always a good idea to save it. Select **File -> Save All** in the bar menu to save all the data thus far

4.3.1 Editing a Task

Now that a Task has been created it is now possible to edit the Task details. To edit the Task that was just created, either double-click on the Task or single click on the Task then click the EDIT TASK button. You will be presented (**Figure 7**) with the Task Definition Screen. The window is rather busy but it is organized so that you can quickly select the items you wish to do to an ElitePI.

The Task Definition screen is broken up into 4 sections. On the upper left side are a number of checkboxes that allow you to select basic instructions to execute on the display. These instructions include retrieving older collections from the ElitePI, displaying information regarding the time/date/panel address, rebooting the ElitePI, and retrieving the system logs.

In the middle of the Task Definition window is the ElitePI time/date setting options. Here one can set the time/date by the Time HASP, set the time and/or date to an absolute setting or if the ElitePI is ahead/behind by a certain number of minutes or days a time/day offset can be set.

On the middle right side of the window, a collection can be selected to install or a C.E. Electronics provided program can be selected to be executed on the ElitePI.

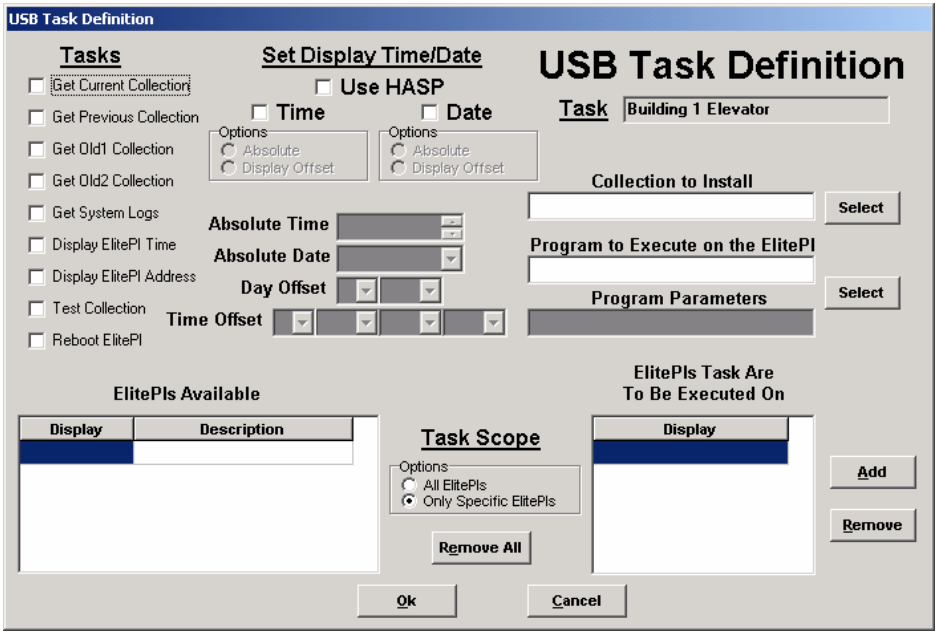

Figure 7 – Task Definition Window

On the bottom of the Task Definition window are the selection grids for which ElitePI displays that are available (left grid) and displays have been selected to execute this Task on (right grid) are shown. In between the grids is a set of radio buttons that allows you to select if this Task is to be executed on "all" displays or "only on selected displays". When a new task is first created, the editor defaults to the "Only Specific ElitePIs" option.

For this Task configuration example we are going to install an updated collection.

Step 1: Press the SELECT button next to the "Collection to Install". Click the button and locate the collection zip file. Be careful to select an ElitePI collection. If you do not select an ElitePI collection, it will be detected and an error will be displayed.

PLEASE NOTE: This is not a full proof method to test if a collection if valid so be cautious. Most times it will catch a problem.

Step 2: Select which ElitePIs this collection is going to be installed on. If it is going to be all of them then select the "All ElitePIs" radio button. If it is only a select group then drag and drop the displays from the "ElitePIs Available" grid into the "ElitePIs Task to be Executed on" grid or select a display from the "ElitePIs Available" grid and then press the ADD button.

Step 3: On the Upper Left side of the window under "Tasks", select the "Display Time" and "Display Panel Address" options. When selected, the check boxes will be checked.

Step 4: Press the OK button on the bottom of the screen to retain the results.

Note: If for some reason you wish to not retain what was done then click on the CANCEL button.

Step 5: After pressing the OK button the main editor window will be presented again. It would be a good idea to save your work so **File -> Save All** from the bar menu to save all the data thus far to the database.

4.4 Creating and Editing a Kit

Now that we are back to the Main Editor window **(Figure 3)** and with a Task built we can now create a Kit. Click on the NEW KIT button and new Kit window will be displayed (**Figure 8**).

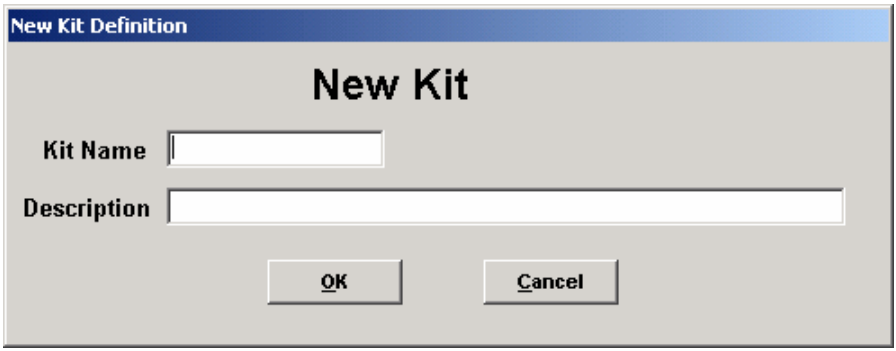

Figure 8 – New Kit Definition Window

There are two pieces of information that need to be entered to create a kit and those are its name and description.

Columns	Description
Kit Name	A 20 character unique name for the kit.
Description	120 character verbose description of the Kit.

Step 1: Fill in the Kit Name and its Description. You must fill in both for them to be accepted. To retain what was entered press the OK button which will return you back to the main editor window.

Step 2: After you have entered the Kit information it is always a good idea to save it to the database. Select **File -> Save All** from the bar menu to save the data.

Step 3: After saving, select the Kit from the drop down list box if it is not already selected.

Step 4: Next the Task needs to be included into the Kit. Drag the Task you created earlier from the Task grid and drop it into the "Tasks Assigned to a Kit" grid or you can select the Task in the "Tasks Available" grid and press the ADD TASK button.

Step 5: After adding the Task save the information. Select **File -> Save All** from the menu bar to save the data.

4.5 Building a Kit

Now that a Kit has been created it needs to be built and placed on the USB Flash Drive. If you have not already done so, insert the USB drive into one of the computer's USB ports. Depending upon which version of Window you are using and if this is the first time the USB Flash Drive has been inserted, a number of windows or information balloons will be presented stating the drive is being recognized by Windows. Allow those messages to finish. If there are balloon messages appearing (Windows 2000 and Windows XP) they will stay present at the bottom of the screen, just acknowledge them by clicking on the "X" box in the upper right corner of the balloon. If windows are presented, (Windows 98SE) they will close once Windows installs the USB Flash Drive.

It is quite easy to build a kit.

Step 1: If the Kit you just created is not selected in the dropdown box select it now.

Step 2: In the Build Drive dropdown box, select the drive letter that was assigned to the USB Flash Drive from the list.

PLEASE NOTE: Next to each drive letter will be the word Fixed or Floppy. The USB Flash Drives are considered Floppy type drives.

Step 3: After the drive is selected click on the BUILD KIT button. If for some reason an installation kit already exists on the USB Flash Drive, a prompt will be presented asking if you wish to overwrite it. Just acknowledge the prompt by clicking on the OK Button.

Step 4: The Messages status bar will present information regarding the build process. Eventually a prompt will be resented stating the build is completed. Acknowledge the prompt by clicking on the OK button.

Step 5: When the build is completed a prompt will be given.. Acknowledge the prompt by clicking on the OK button. Once the **green light** is glowing steady on the Flash Drive it can probably be removed.

WARNING: For **Windows 98SE** just remove the USB Flash Drive from the computer's USB port. For **Windows 2000** and **Windows XP,** it is best that you instruct Windows to detach the drive. In the System Tray on the Windows task bar is an icon on the tool bar **(Figure 9**) for performing that action.

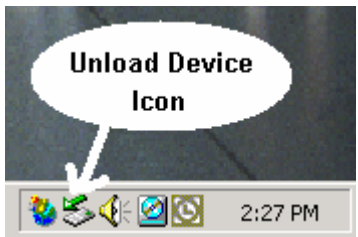

Figure 9 – Unload Device

Right click on the icon and a window will be presented with the USB devices currently connected. Depending on your computer it could only be one entry or it can be a number of

entries. Select the USB Flash drive you selected earlier o build the Kit on (same drive letter) and click on the STOP button. Windows will take a second to remove the drive but will present a prompt stating that it has done so. Click on the Ok button to acknowledge the prompt. Then Click the Close button on the Unplug or Eject Hardware window. Now you can remove the USB Flash Drive from the computer's USB port.

If the drive will not disconnect, it will be necessary to close the USB Transfer Editor to release the drive.

4.6 Your done!!

Congratulations!! You have built your first Kit. Exit the USB Transfer Utility Editor, take the USB Flash drive to your displays and install your updated collection.

5 Editor Features

There are 9 screens within the ElitePI USB Transfer Utility Editor:

Window	Description
Main	Main window. Provides access to all features in the application
ElitePI Display Editor	Allows for managing the Physical Addresses of each of the ElitePIs installed at your building.
Task Editor	Edits a specific Task that is defined in the Main Window Task Available grid.
Kit Create	Creates a new entry in the Kit dropdown box.
Time HASP Configuration	Configures the Time HASP. Allows you to enter the password codes plus set the time and date on the HASP. This is only available if you have installed the Time HASP drivers on the transfer computer and purchased the Time HASP feature.
ElitePI Log View	Allows the viewing of the ElitePI system log. . The log is stored on the USB Flash Drive.

Transfer Execution Log	Allows the viewing of the execution log from a Kit that was executed on an ElitePI. The log is stored on the USB Flash Drive.
Transfer Command Processing Log	Allows the viewing of the command execution log. This is a breakdown of each command instruction executed for a Kit on an ElitePI. The log is stored on the USB Flash Drive
Build Error Log	Allows the viewing of the Transfer Editor build log in the unlikely event that an error occurs when building a Kit to the USB Flash Drive.
Recover Backup	Allows for selecting a database backup to restore. The database backup information is displayed by date of backup.

This section will describe the windows and their purpose.

5.1 Editor Main Window

This is the window **(Figure 3)** that is presented when the USB Transfer Utility Editor is first started. It provides the point where all other screens are activated from. Most screen editors are typically activated from the bar menu at the top of the window but some features also have standard click buttons for convenience.

5.1.1 Bar Menu

The bar menu at the top of the window has 4 drop down menus (File, Edit, View and About) of which various editing features can be accessed. The following will review each menu option.

5.1.1.1 File Menu

Option	**Description**
Build Transfer	This option takes the current Kit selected in the Kit dropdown list and builds it to the USB Flash Drive selected in the Build Drive dropdown list.

Recover Backup	Allows for selecting you of the 9 possible database backups available. This is used in the unlikely event the database becomes corrupted or you saved a database from a previous editing session that you did not wish to keep.
Save All	Saves the entire database back to the database files. All data is save at that time.
Exit (No Save)	This exits the USB Transfer Editor without saving any changes made on any of the screens. This is used when changes were performed and a significant mistake was made which would negatively effect the configuration.
Exit	Saves all the data back to the database and closes the application.

5.1.1.2 Edit Menu

Option	Description
Displays	Opens the ElitePI display configuration editor.
Tasks	Opens a sub-menu where you can select **New:** A new row is added to the bottom of the Tasks Available grid. **Edit:** Takes a currently selected task in the Tasks Available grid and opens the Task edit window for that Task. **Delete:** Takes the currently selected task and deletes it.

Kits	Opens a sub-menu where you can select: **New:** Opens the Kit create window and allows you to add a new Kit. The NEW KIT button provides the same functionality. **Edit:** Opens the Kit edit window and displays the currently selected Kit in the Kit dropdown box. Allows you to edit the Kit name and its description. **Delete:** Deletes the currently selected Kit in the Kit dropdown. **Save:** Saves the kit to the memory resident database. This does NOT save it to the database file.
HASP	Opens the Time HASP configuration window. It allows the setting of the Date and Time on the Time HASP plus entering the Time HASP security code.

5.1.1.3 View Menu

Option	Description
ElitePI Log	When a Task is configured to retrieve the ElitePI System logs this option allows you to open the log file for viewing. The USB Flash Drive needs to be inserted and selected in the Build Drive dropdown box.

USB Execution Log	When a Task executes on a display a log file of the ElitePI screen is saved and dumped to the USB Flash Drive once all the requested instructions in the Task have been executed. This option allows you to view the log file. The USB Flash Drive needs to be inserted and selected in the Build Drive dropdown box. **Note:** In order to have unique log files created after the installer runs it will be necessary to not use the All Displays option in the Task. Each display will need to be selected from the available displays and placed in the Execute On grid for the Task.
USB Processing Log	When a Task executes on a display a log file is created containing all the commands that where executed on the ElitePI. This option allows you to view the commands executed log file. See the Note above on the USB Execution Log for issues surrounding this log file.
Build Error Log	This option allows you to view the Build Error log file that is generated when a build error occurs.

5.1.1.4 Help Menu

Option	Description
About	Describes this application

5.1.2 Tasks Available - Editor Grid

This grid manages the Task definitions. Tasks can be manipulated from here using the following techniques:

- Using the buttons on the right side of the grid. There are buttons to create (new), edit and deleted Tasks from the grid.
- Using the window bar menu described in Section 5.1.1.2 to create (new), edit or delete Tasks from the grid.
- Double clicking on a Task in the grid will open the Task editor or selecting it on the grid and pressing the EDIT TASK button next to the grid.

Figure 6 shows the "Tasks Available" grid.

5.1.3 Kits

Figure 10 –Kit Selection Area

Used to select a Kit that is going to be edited and used to select the Kit that will be built. The 3 buttons to the right of the kits list allows you to Create, Edit or Delete a Kit. To Edit or Delete a kit, the kit name must be selected in the dropdown list.

5.1.4 Tasks Assigned to a Kit

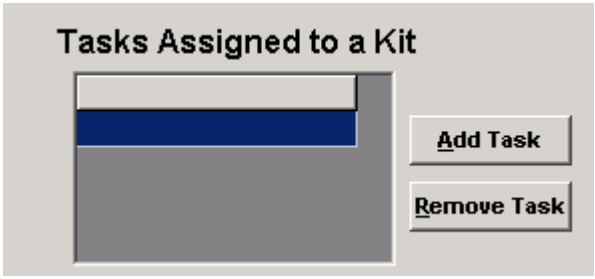

Figure 11 – Tasks Assigned Area

This is used in conjunction with the Kits definition. This grid maintains the list of Tasks that are assigned to the Kit selected in the Kits dropdown. Tasks are selected in the "Tasks Available" grid and

either dragged from there to this grid to populate it or the task can be selected in the "Tasks Available" grid and the **Add Task** button can be pressed to add the task to the Kit. Tasks can be removed from this grid by either selecting the Task with the mouse and drag it off the grid or selecting the task and pressing the REMOVE TASKS button next to the grid. Do not drag the Task off the editor Window; it will not be dropped if you do. If you did the Quick Start Section you would have manipulated this grid in the exercise.

5.1.5 Build Drive

Figure 12 – Build Drive area

This selects the disk drive where the Kit is to be saved. Most of the time the Kit will be built on a USB Flash Drive but there are times where you need to build the Kit on a fixed disk drive (like the C drive). Select the drive in the dropdown list and press the **Build Kit** button to create a Kit. After the Kit is constructed, it will be saved the selected disk drive.

When building to a fixed disk drive it is probably because the USB Drive is not currently available. When a fixed disk drive is selected it will write the Kit to the root directory of that drive. The package name is named "**USBInstaller.zip".** It is possible to e-mail this file so that it can be placed in the root directory of the USB Flash drive for installation at another location.

5.2 ElitePI Display Editor

This window manages the configuration of the ElitePI Physical address information. The window (**Figure 4**) consists of an editing grid and 4 buttons to manipulate the editor. This editor was discussed in the Quick Start Guide in Section 4. So a brief description will be provided here for the features on this window.

5.2.1 Displays – Grid

This contains the display configuration information.

5.2.2 OK – Button

When clicked retains the information entered, closes the editor and returns to the Main application window.

5.2.3 Cancel – Button

When clicked it does NOT retain any of the information entered, closes the editor and it returns to the Main application window.

5.2.4 Add – Button

When clicked adds a row to the bottom of the grid list and positions to the first editable column in the row.

5.2.5 Delete – Button

When clicked deletes the selected row in the grid.

5.3 Task Definition Editor

Figure 7 in Section 4 shows the Task Definition window. As stated earlier, it is a busy window with lots of configuration options available.

The window is broken up into 4 sections which are listed below.

Option	Description
Tasks	Describes specific actions to perform on a display. These would be retrieve a previous collection, display information (time / date / panel address) and retrieve the application logs
Time and Date	Techniques to reset the ElitePI time and date
Install and Execute Program	Selecting an ElitePI collection to update the ElitePI or a program that C.E. Electronics provided that can be executed on an ElitePI

Displays	A list of available displays that have been configured in the editor and the list of displays that this Task is going to be executed on.

5.3.1 Tasks

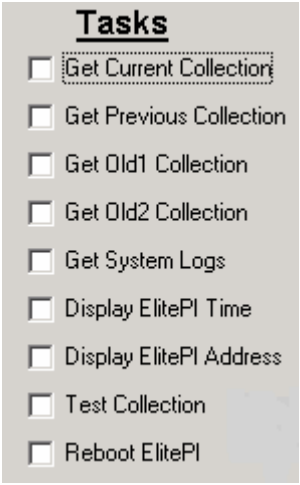

Figure 13 – Task Definition window Tasks area

These are instructions you can give to the USB Installation program when it executes on an ElitePI. They are checkbox type options that can be clicked on to select them. When selected they will have a check mark in the box next to the item. There are 9 options to choose from:

Option	Description
Get Current Collection	Retrieves the currently active collection on the ElitePI.
Get Previous Collection	Retrieves the previous collection from the ElitePI.
Get Old1 Collection	Retrieves the 2nd oldest collection from the ElitePI
Get Old2 Collection	Retrieves the 3rd oldest collection from the ElitePI

Get System Logs	Retrieves the ElitePI software log. This will be copied to the USB Flash Drive and can be viewed in the ElitePI log viewer
Get ElitePI Time/Date	Displays the Time and Date the ElitePI is set at. This is displayed when the installation utility executes on the ElitePI. This can also be viewed in the Execution Log that was copied back to the flash drive.
Get ElitePI Physical Address	Displays the ElitePI Physical Address set on the rotary switches on the ElitePI computer when the installation utility executes on the ElitePI. This can also be viewed in the Execution Log that was copied back to the flash drive.
Test Collection	If a new or updated collection is being applied sometimes it is useful to review test the collection after installation. Setting this option will restart the ElitePI software and allow for viewing the new/updated collection. It will stay active for about 10 seconds before proceeding on with completing the installation script. **NOTE:** This need for this feature is now obsolete and is no longer necessary but is still available for selection and will still execute on the ElitePI display.
Reboot ElitePI	There are times when it will be necessary to cold boot the ElitePI. This option allows you to do that.

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5.3.2 Time and Date

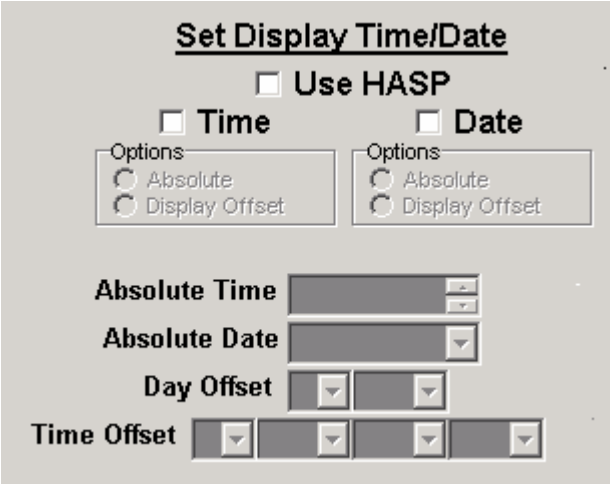

Figure 14 – Task Definition window with the Time and Date area

The Time and Date section provides options to modify the time and date on the ElitePI. There are 3 methods available to do this with:

Method	**Description**
Time HASP	This option can be used if the Time HASP option was purchased. It allows you to set the time on a special USB HASP device that contains a real time clock. The date and time are both set when using this option.
Absolute	This option is available when it is necessary to set the date and/or time to fixed value. This is can be set individually for both the date and/or time.
Offset	This option is used when the ElitePI is behind or ahead of time by a finite amount and it necessary to push the time a certain amount of time (hours / minutes / seconds) or the date by a certain number of days. This is available individually for setting the date and/or time.

5.3.2.1 Time HASP method (optional feature)

Using this method the Time HASP will set both the date and time. It is required while at the ElitePI that you insert the USB Time HASP into the ElitePIs USB port while the installation utility is running. Follow the directions that are displayed on the ElitePI. You will be instructed when to insert the Time HASP and when to remove it. You must have access to the screen to see the message appear while the Kit executes.

5.3.2.2 Time and Date Absolute Method

When selecting the Time or Date checkbox you are provided with an option on what method (absolute or offset) to use to set the ElitePI time and date. The absolute method allows setting a FIXED value for the date or time. When absolute is selected the absolute combination boxes are activated.

When setting time use the mouse to select what part (hour, minute or second) of the time you wish to adjust. The rotors can be manipulated by clicking on the upper part of the rotator to move the time back or clicking on the bottom part of the rotator to move the time forward. For the date, clicking on the arrow will open a date selection calendar to allowing for browsing through the calendar to select a date.

5.3.2.3 Time and Date Offset Method

The offset method allows for setting an offset time and date to the current time and date on the ElitePI. The time can be setup by the hour, minute and second and the date by the number of days. The time offset on the ElitePI will be added too or subtracted from the current time or date.

For example, if the current time on the ElitePI is 10:11am and you wish to increase the time by 10 minutes and 20 seconds then the following would be set in the offset time selector boxes. Select direction indicator to and set it to “+”, leave the hours set to “0”, set the minutes to “10” and set the seconds to “20”. When this instruction is executed via the USB Installer it will add 10 minutes and 20 seconds to the current time on the ElitePI.

To move the date ahead you can specify the offset in days. The day can be pushed forward up to 10 days. So if the date is January 31, 2004 and the date is really February 1, 2004 the day needs to be pushed forward 1 day. Set the day offset direction to "+' and the day offset to "1". When executed by the USB Installer the date will be pushed ahead 1 day and change the date to February 1, 2004. Remember this is relative to the current date of the ElitePI.

This feature will typically be used in areas that need to adjust their clocks to adhere to Daylight Savings Time.

5.3.2.4 Install Collection and Execute Program

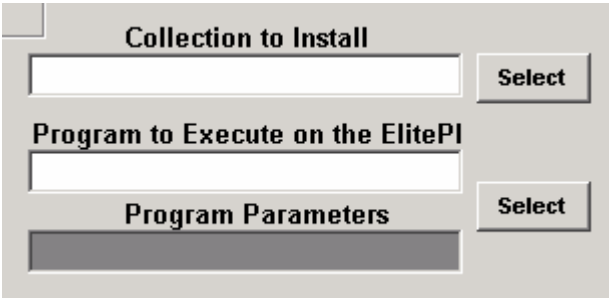

Figure 15 – Task Definition window Install and Execute files selection

The Install collection feature will probably be the most used function of the USB Transfer tools that are available since it will allow for the updating of the ElitePIs collection. Execute Program will allow you to install a program and run it on the ElitePI. Usually this will be used when a new driver or codec needs to be installed on the display

PLEASE NOTE: Only use this option with C.E. Electronics provided executables. Using non C.E. Electronics executables could damage the ElitePI and may require it to be returned to the factory for repair.

To install a collection press the SELECT button next to the "Collection To Install" edit box. This will present a file browser dialog that will allow for moving in directories to locate a collection .zip file. Make sure you choose an ElitePI collection file. When found select the file and the information will be deposited in the edit box. There is an attempt to determine if you selected a good file but it is NOT absolutely full proof.

To select an executable to run on the ElitePI, press the SELECT button next to the "Program to Execute on Elite PI' edit box. A file browser dialog will be displayed allowing for moving in directories to locate an executable .zip file. When the desired file is found select the file and the information will be deposited in the edit box. If you fail to select a C.E. Electronics provided utility an error will be displayed.

5.3.3 Displays

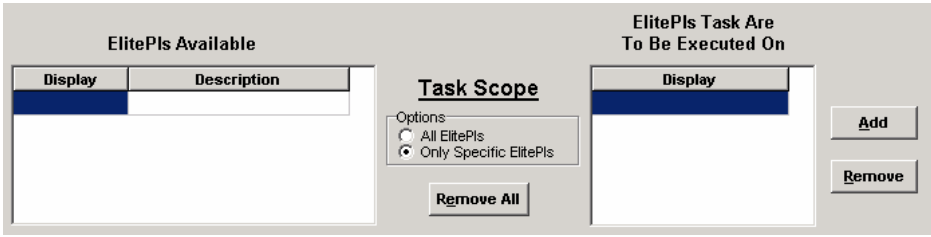

Figure 16 – Task Editor Displays Selection Area

To select the ElitePI(s) that the Task is to be executed on you need to select the ElitePI from the "ElitePIs Available" grid and put it in the "ElitePIs Task Are To Be Executed On". The "ElitePIs Available" grid contains the available ElitePIs entered into the "Display Editor" window described earlier, and the "ElitePIs Task Are To Be Executed On" grid, will contain which displays this Task is assigned to. The "Task Scope" defines how these two grids are used.

The Task scope allows you to select only 1 of the 2 settings presented:

Task Scope	Description
All ElitePIs	All ElitePIs will execute this Task
Only Specific ElitePIs	Only the ElitePIs selected in the "ElitePIs Task Are To Be Executed On' grid will execute the Task.

When the "Task Definition" editor is presented for a new Task, the "Task Scope" is set to "Only Specific ElitePIs". This allows for dragging entries from the "ElitePIs Available" grid and dropping them

to the “ElitePIs Task Are To Be Executed On” grid or selecting the ElitePIs name on the “ElitePIs Available” grid and pressing the ADD button. If you choose to change the scope to “All ElitePIs” the grids will become inactivated and cleared. Care should be taken when setting the “Task Scope”.

PLEASE NOTE: The ElitePI can only be added once. If it is duplicated an error message will be displayed.

5.4 Kit Create

The Kit Create windows as shown in Figure 8 in Section 4 is opened when a user selects the **Edit -> Collection -> New** from the Main window bar menu or by pressing the **NEW KIT** button next to the Kit combo box.

There are two items that need to be filled in to create a new Kit and those are:

Item	Description
Kit Name	This is a 20 character unique name for the kit.
Description	Verbose description of the Kit.

Fill in these two items and press the OK button and the Kit will be added. If you change your mind you can press the CANCEL button which will close the window and discard the information entered.

5.5 Time HASP Configuration

Figure 5 in Section 4 shows the optional feature window which provides a way to update the ElitePIs date and time via a real time clock built into a USB HASP. It provides a convenient way to update the ElitePI time/date during the execution of a kit on an ElitePI.

The window is broken down into 3 sections:

Section	Description
Pass Code	The Time HASP is password protected and requires the two Pass Codes to be entered in order to set the time/date and to access the time/date.
Set To	The time and date the Time HASP will be set to when the SET button is pressed.
HASP	The time and date the Time HASP is currently set to.

Insert the Time HASP into an available USB port and from the bar menu select **Edit -> HASP**. When the window is initially opened it looks for the Time HASP. If it can not find it, the window except for the being able to enter a pass code and activating it.

The pass code must be entered in order for the window to locate and communicate with the Time HASP. Enter the pass code provided with the time HASP. Make sure you fill in both pass code entry boxes Make sure the Time HASP is inserted into a USB port on the computer and click on the FIND button. If the pass code was entered correctly then the "HASP" area of the window will be go active and the SET button will be turned on. Also the pass codes will be added to the memory resident database.

To set the time on the Time HASP the "Set To" section needs to be adjusted to the desired date and time. In addition to the edit boxes for the time and date there is a check box that keeps the time and date edit boxes in sync with the current computer time. If the computer time is not desired to be applied to the Time HASP then uncheck this box and adjust the time and date to the desired values. When ready, click on the SET button and the time/date on the Time HASP will be adjusted and represented in the "HASP" area of the window.

5.5.1 OK Button

When clicked closes this window.

5.5.2 SET Button

When clicked sets the time and date on the Time HASP based upon what the time and date edit boxes are set to in the "Set To" area.

5.5.3 FIND Button

Locates the Time HASP and if found enables the ”HASP” area of the window which keeps the time and date boxes in the window synchronized with the Time HASP.

PLEASE NOTE: The Time HASP must be inserted into a USB port on the computer and the pass code must be correctly entered in the pass code boxes for the window to be able to access the Time HASP.

5.5.4 STOP / START Button

Disables keeping the time and date edit boxes in sync for both the Set To (if the system time checkbox is checked) with the computer time/date and the HASP section time and date edit boxes being kept in sync with the Time HASP. To re-establish synchronization the STOP button will become the START button. Pressing the START button will restart time/date synchronization.

PLEASE NOTE: The SET button is disabled when synchronization is stopped.

5.6 ElitePI Log View

This window is used to review the retrieved log file from an ElitePI. To view the log the following must have been done.

- **Get System Logs** Task checked in the Task definition.
- The ElitePI display needs to be selected in the Task**.**

PLEASE NOTE: If the “Task Scope” was set to “All ElitePIs” then the log files will not be saved for each individual ElitePI. The ElitePIs need to be individually selected. The system log saved will be from the last ElitePI updated.

- The Task needs to be in the Kit and the kit needs to be executed on the ElitePI.

If the above is true then the ElitePI system log will be present on the USB Flash Drive. To access the log file from the USB Flash Drive

- Insert the USB Flash Drive into an available USB port on the computer

- On the Main window select the drive in the Build Drive dropdown box.
- On the Main window menu bar select **View -> ElitePI Log.**

The window in **Figure 17** will be presented:

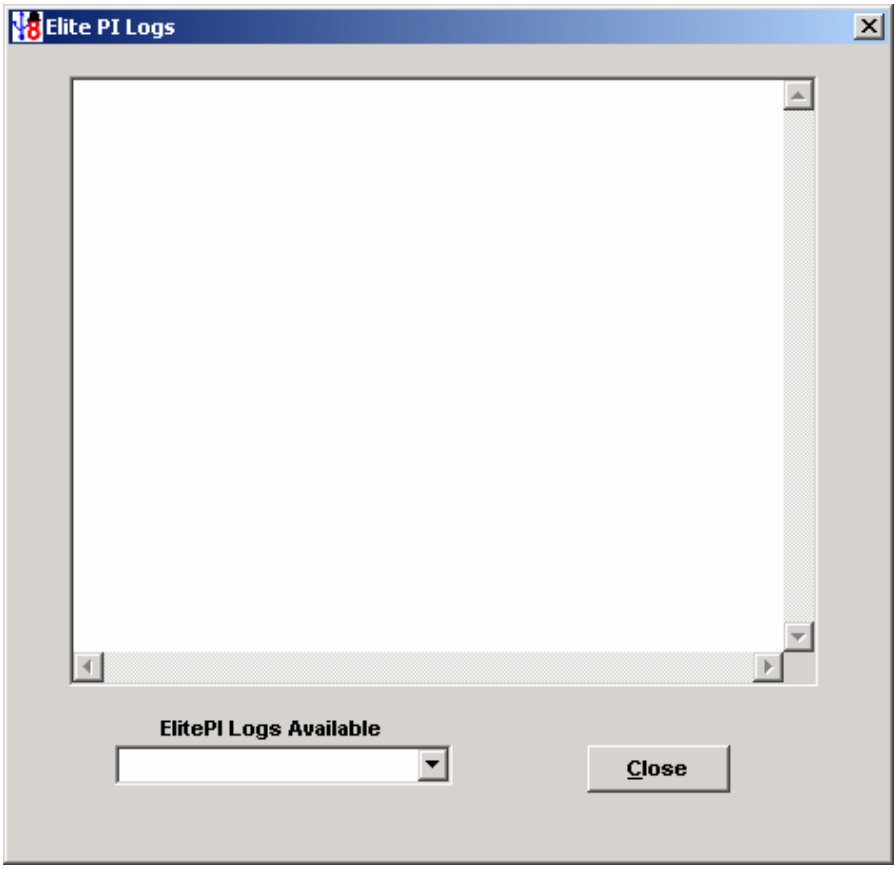

Figure 17 – ElitePI Log viewing window

The window is broke up into a large display area where the log file contents are displayed and a dropdown box that contains the name of the ElitePI that has a log file on the USB Flash Drive. Selecting an ElitePI from the dropdown box will cause the log file for that ElitePI to be loaded and displayed.

5.6.1 CLOSE Button

Closes the window.

5.7 Transfer Execution Log

This window is used to review the retrieved execution log file generated when USB Installer is on the ElitePI. To view the log the following must have been done.

- The ElitePI display needs to be selected in the Task

PLEASE NOTE: If the "Task Scope" was set to "All ElitePIs" then the log files will not be saved for each individual ElitePI. The ElitePIs need to be individually selected. The system log saved will be from the last ElitePI updated.

If the above is true then the Execution log will be present on the USB Flash Drive. To access the log file from the USB Flash Drive

- Insert the USB Flash Drive into an available USB port on the computer
- On the Main window select the drive in the Build Drive combo box.
- On the Main window menu bar select **View -> USB Execution Log.**

The window in **Figure 18** will be presented:

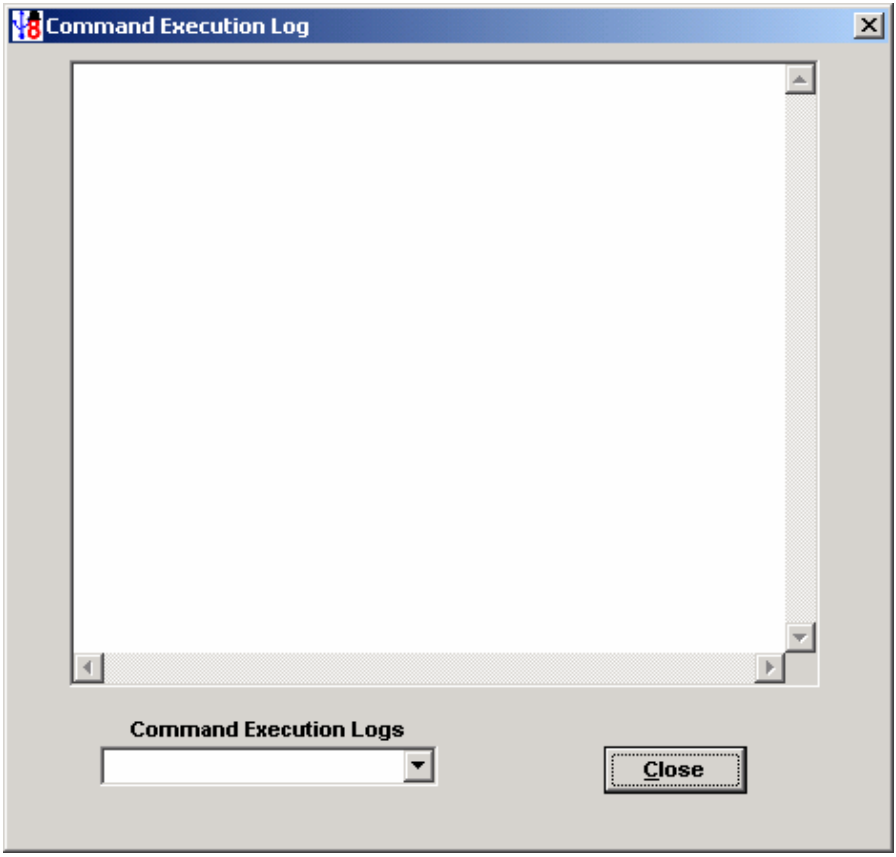

Figure 18 – Transfer Execution Log window

The window is broke up into a large display area where the log file contents are displayed and a dropdown box that contains the name of the ElitePI that has a log file on the USB Flash Drive. Selecting an ElitePI from the dropdown box will cause the log file for that ElitePI to be loaded and displayed.

5.7.1 CLOSE Button

Closes the window.

5.8 Transfer Command Processing Log

This window is used to review the retrieved command processing log file generated when USB Installer is on the ElitePI. To view the log the following must have been done.

- The ElitePI display needs to be selected in the Task.

PLEASE NOTE: If the "Task Scope" was set to "All ElitePIs" then the log files will not be saved for each individual ElitePI. The ElitePIs need to be individually selected. The system log saved will be from the last ElitePI updated.

If the above is true then the Execution log will be present on the USB Flash Drive. To access the log file from the USB Flash Drive

- Insert the USB Flash Drive into an available USB port on the computer
- On the Main window select the drive in the Build Drive combo box.
- On the Main window menu bar select **View -> USB Processing Log.**

The window in **Figure 19** will be presented:

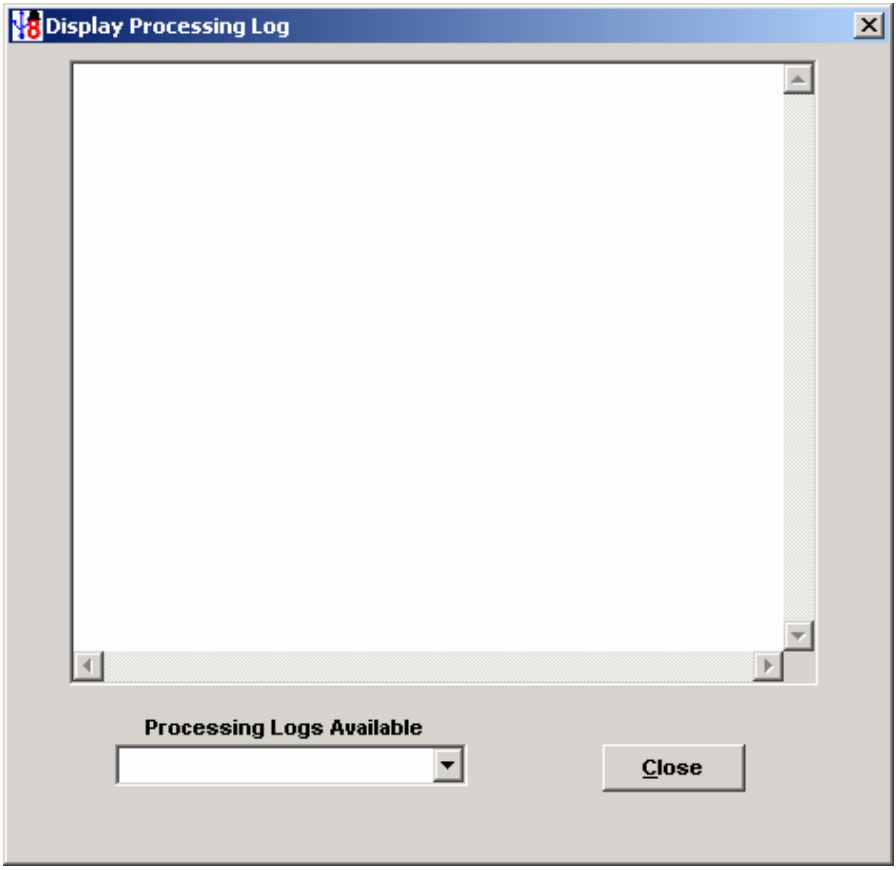

Figure 19 – Processing Log viewing window

The window is broke up into a large display area where the log file contents are displayed and a dropdown box that contains the name of the ElitePI that has a log file on the USB Flash Drive. Selecting an ElitePI from the dropdown box will cause the log file for that ElitePI to be loaded and displayed.

5.8.1 CLOSE Button

Closes the window.

5.9 Build Error Log

This window is used to review the build log file generated when a Kit is built on a Flash Drive.

To access the log file from main window menu bar select **View -> Build Log.**

The window in **Figure 20** will be presented:

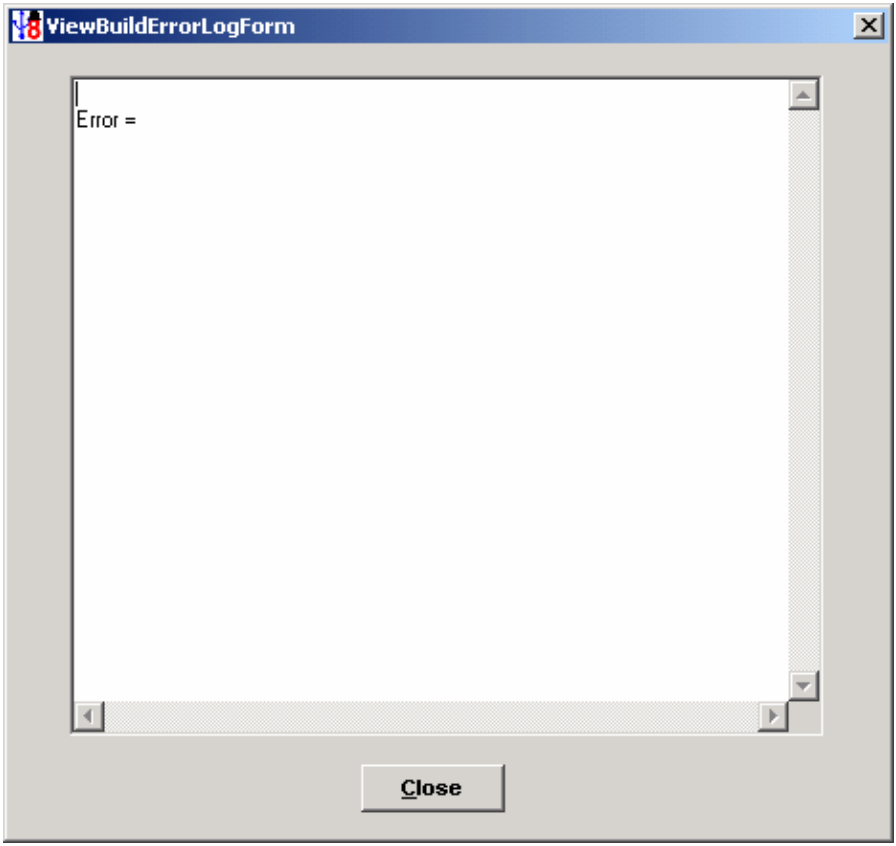

Figure 20 – Build Error Window

The window is broke up into a large display area where the log file contents are displayed. When the window is opened the current build log file is loaded and displayed.

5.9.1 CLOSE Button

Closes the window.

5.10 Recover Backup

This window allows for the selection of a database backup to restore. A dropdown box is presented with the possible backups to restore from based upon the date of the backup.

Figure 21– Recover Backup Window

Select a backup from the list and press the RESTORE button. A message will be presented asking if you are sure about this action. Press the YES button to restore the backup or NO to abort. The window will close when completed.

5.10.1 RECOVER Button

When pressed looks at the selected backup in the dropdown box, replaces the current database with the backup and activates it.

5.10.2 CANCEL Button

Closes this window WITHOUT any recovery operation being performed.

Appendix-A Setting the Physical Address

To set the physical address you must have access to the computer board mounted on the back of the ElitePI You must know up front, what the physical address needs to be set to before going to the ElitePIs and setting them.

It is HIGHLY advisable that you contact your elevator service contractor or C.E. Electronics for further assistance in defining the physical addresses before proceeding. Only your elevator service contractor should perform these setting changes on the computer board.

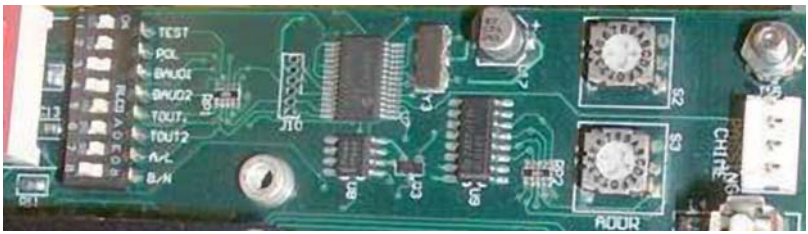

Figure A-1 – View of dipswitch and rotaries

Once all the physical addresses have been identified for the ElitePIs in your building or campus, go to each ElitePI and set the addresses. If the ElitePI is installed, take the necessary precautions before proceeding with removing the ElitePI from the elevator (safety and elevator power). Using **Figure A-1**, locate the two rotary switches on the ElitePI driver board. There are two rotary switches, one for the low address (Switch S3) and the other for the high address (Switch S2). Note that the rotaries are labeled in hexadecimal 0-F which is equivalent to 1 – 16 in the USB Transfer Editor's Display Editor screen (See Section 4.2.1). Using a flat blade screw driver, turn the rotaries carefully to the designated address. To verity they are set to the correct address set switch 1 on the dip switch to the "on" position. This will place the display in demo mode and show a diagnostics screen where the rotary information is display at the bottom section of the window. The Brightness indicator is the high address rotary (Switch S2) and the Address indicator is the low address rotary (Switch S3). Please note that the values for Switch S2 are represented here as 0 – F and the values for Switch S3 are represented here as 0 – 15.

INFORMATIONAL NOTE: In earlier versions of the ElitePI, Switch S2 was a hardware brightness control for the display screen. It is no longer used as a

brightness control mechanism. It is now designated the physical high address rotary.

Once the address is set correctly, set switch 1 of the dip switch to the “off” position and check for proper operation.

C.E. Electronics, Inc

2107 Industrial Drive
Bryan, OH 43506
PH (419) 636-6705
FX (419) 636-2516