# INDEX

# 1.0 Before You Get Started

Care and Servicing
1. READ INSTRUCTIONS CAREFULLY.

2. POWER: Use only the power supply included. Do not overload wall outlets or extension cords. Overloading creates risk of shock and/or fire. Power cords from all equipment, including this device, should be routed away from areas where people walk.

3. SERVICING: Do not try to service this device yourself.
Unauthorized servicing will void warranty and may damage device. Refer all questions and servicing only to qualified service personnel (see Warranty for details).

4. CLEANING: Unplug device from wall outlet before cleaning. Use damp cloth to wipe unit clear of dust and dirt. Do not use liquid or aerosol cleansers.

Please note: Reading through this manual will require concentration. Before you start reading, take time to set up all your equipment carefully, checking all connections. Then make yourself comfortable with all your equipment within easy reach. Also note: the EZ-10 requires an active video signal to produce its effects. Long pauses (as when you read the manual), can cause a source signal to be interrupted:

* To ensure the video signal from a <u>playback VCR</u> will not be interrupted as you read the manual, simply insert a full length video cassette (at least two hours of video) and play it back. (For the purpose of learning how to use the EZ-10, you may want to use a pre-recorded movie rather than one of the home videos you want to edit.)

* To ensure the video signal from a <u>playback camcorder</u> will not be interrupted as you read the manual, put the camcorder into CAMERA mode <u>without</u> any tape inside. The source video will be a continuous, live camcorder shot. (If there is a tape inside the camcorder, it will shut off after a few minutes of inactivity.)

# 2.0 Functions and Controls



1. Keyboard functions for the EZ-10 Titler.
2. MODE LEDs: Indicates the mode for Auto/Manual, IN/OUT and GPI.
3. T-Bar Control: Lets you manually control video fades. For video fades, T-bar's "up" position means "IN" and the "down" means "OUT". **Note: fade effect is only available with an external video source.**

## Special Function Keys:

1. Rainbow Color: Provides 39 patterns and 256 gradient colors for text.

2. Background Color: Provides 256 solid colors plus 39 rainbow gradient colors for screen background.

3. Face Color: Provides 256 solid colors plus 39 rainbow gradient colors for the type face.

4. Outline Color: Provides 256 solid colors plus 39 rainbow gradient colors for text outline.

5. Shadow: Provides shadow effect for text. Shadow color is only in black.

6. Outline: Turn on and off text outline.

7. Double Width: Text stretches to double width.

8. Double High: Text stretches to double high.

9. Text Space: Letter spacing changes. There are four spacing options to choose from.

10. Font/Cut: Press this key in " EDIT" mode for a font list that shows the 30 fonts that are available. (Number 0-9 and A-T). Press this key in the " EFFECT" mode to select the " CUT" effect for page transition.

11. Size/Fade: Change letter size in " EDIT" mode. There are three size options. By pressing the Size/Fade key, you will cycle through the sizes. Press this key in the " EFFECT" mode to select "FADE" effect for page transition.

12. Center/Wipe: Press this key in "EDIT" mode to center the text line. Press this key in "EFFECT" mode to select "WIPE" effect for page transition.

13. Line Shift: Press this key in "EFFECT" mode to select "LINE SHIFT" effect for page transition. Press the key to select the line shift position (Bottom-Middle-Top).

14. Lang/Scroll: Press this key in "EFFECT" mode to select "SCROLL" effect for page transition. Press the "LANG" key in Edit mode to select desire language of user instruction display on screen.

15. Page Link: Press this key in "EFFECT" mode to automatically play back all pages with scrolling effect . The arrow symbol will appear by each page number for which page link function was selected. Press this key again to disable page link effect.

16. Home/Load: Press the "HOME" key in "EDIT" mode and move the cursor instantly to the left end of line . Press the "ALT" and "LOAD" keys to download project 1 or 2 which was pre-programmed in "EDIT" or "EFFECT" mode. EZ-10 provides storage for two projects. Each project may contain up to 10 pages. It will take about 40 to 70 seconds to download a project, depending upon the amount of information in the project. **The GPI LED will flash during the downloading of the project.**

17. End/Save: Press the "END" key in "EDIT" mode to move the cursor instantly to the end of the line. Press the "ALT" and "SAVE" keys to save the page information to memory. These projects will stay in memory even if the machine is turned off. The EZ-10 can save up to two projects. Each project can contain up to 10 pages. It will take about 8 seconds to save a project.

18. Edit Mode: To edit text, press the "EDIT" key.

19. Effect Mode: Press this key to enter the "EFFECT" mode. Use this mode to program the transition effects for the pages. Also press this key to playback the page effects.

20. Page Down: Advance to the next page.

21. Page Up: Return to the previous page.

Note: It will take up to 10 seconds to change a page if, depending on how much text is on the next page.

22. Play: Press this key once in "EDIT" mode to activate the playback effect for the current page you are editing. Press this key twice in "EFFECT" mode to activate the playback effect for all pages from the page currently marked by cursor to the last page.

**Note: All text is compressed when it is stored into memory. Therefore, each time you want to play back these pages, they need to be decompressed . First press the "PLAY" key to start de-compress the page information. It will require about 2 seconds for de-compression. The GPI LED will flash. When GPI LED is flashing, press the "PLAY" key a second time to activate the playback effects.**
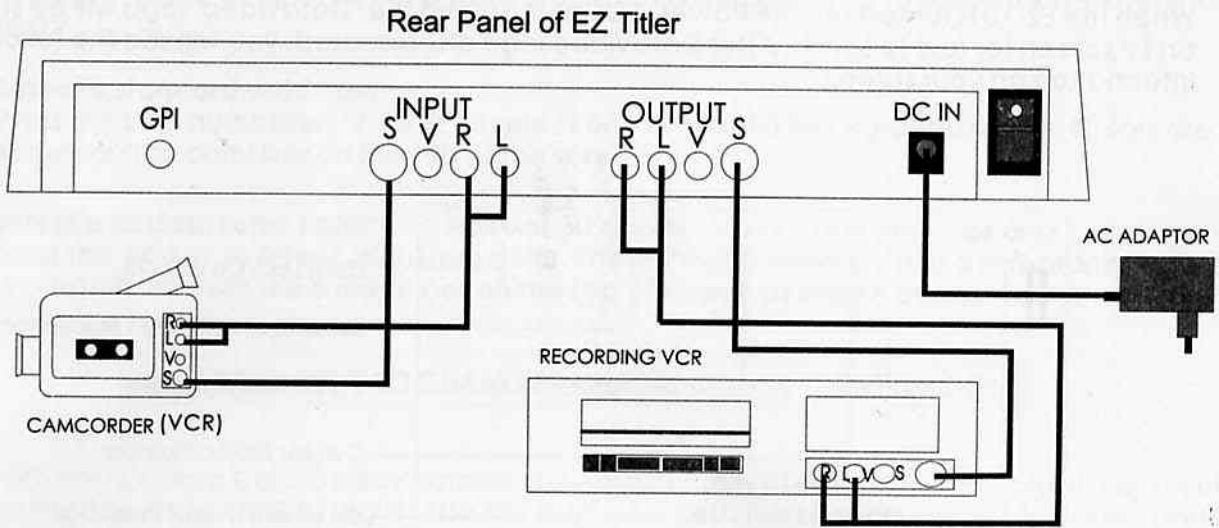
23. Auto/Manual: Press this key in "EDIT" or "EFFECT" mode to determine playback mode, (Auto or Manual). In "AUTO" mode, the AUTO/MANUAL LED will lite. **The T-Bar will be activated when MANUAL mode is selected.** In "EFFECT" mode, if the Auto mode is "ON" which will start playback from the page that was marked by cursor and continue to the last page containing text. In Manual mode, if the AUTO/MANUAL LED is "OFF", you must activate the Page In to Out and page to page transition effects by pressing the "PLAY" key manually.

24. GPI/Demo: Press this key in "EFFECT" mode to **enter to GPI (General Purpose Interface)mode.** The GPI LED will lite when the GPI mode is activated. GPI is used for external control devices such as Datavideo's SE-200 Pro Integrated Editing Center. **To activate a re-cycle playback effect** for all pages, you press the keys "SHIFT" + "DEMO" key in "EFFECT" mode and then press the "PLAY" key again when GPI LED is flashing. **To playback "DEMO" program,** Press the keys "ALT" + "DEMO" in "EDIT" or "EFFECT" mode, it will take about 60 seconds to down load the demo program. The GPI will flash during downloading the demo program.

25. Page: Select a page for editing in "EDIT" mode by pressing the "PAGE" key and then any

# 3.0 Installation

## 3.1 Typical installation

### Rear Panel of EZ Titler

GPI

INPUT
S V R L

OUTPUT
R L V S

DC IN

AC ADAPTOR

R L Vo S

CAMCORDER (VCR)

RECORDING VCR

## 3.2 Installation Diagram of EZ-10 with Datavideo's SE-200 Integrated Editing Center

### Rear Panel of SE-200

GPI I/R

EDIT EDIT
A B

VCR-A
R L V S

VCR-B
R L V S

MUSIC
L R

OUTPUT
R L V

EAR VOL

S

Rear Panel of EZ Titler

AC ADAPTOR

GPI

INPUT
S V R L

OUTPUT
R L V S

DC IN

AC ADAPTOR

R L Vo S

REMOTE

PLAYER-A (VCR)

PLAYER-B

EDIT

R L V S

CD PLAYER

TV/Monitor

RECORDING VCR

INFRARED
TRANSMITTER

I/R

A V

R L V S

V A
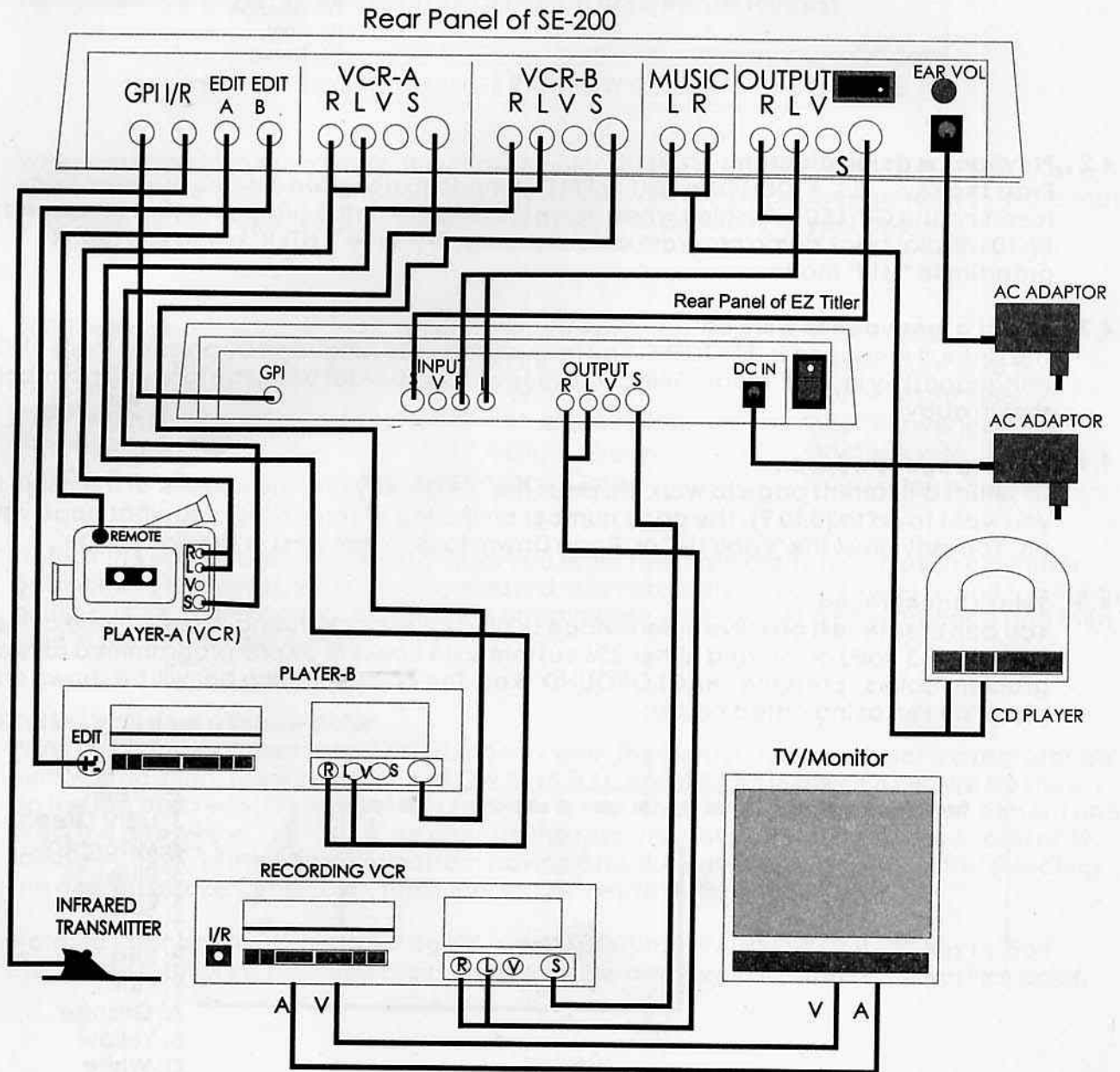
# 4.0 Edit Mode

### 4.1  Go to Edit Mode
When the EZ-10 is turned on, the Power LED lights up and the "Datavideo" logo will be shown on TV screen for few seconds. After Datavideo logo disappeared, you will see the following information on your screen.

```
LANG: BG    PROJECT:1    PAGE:1    SPACING:1    CAPS:OFF
```

— Caps Lock On and Off

— Spacing of text from 1 to 4 options

— Current page number

— Current project number

— On screen display language
  BG: English
  EP: Spanish
  FR: French
  DT: German
  IT:  Italy
  NL: Dutch
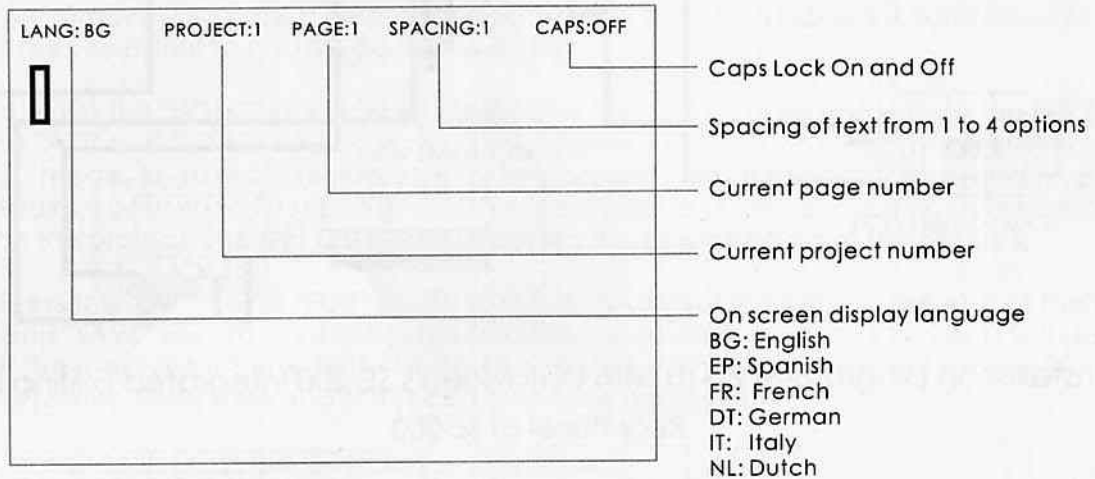
### 4.2  Playback a demo program
Press the keys "ALT" + "DEMO" in EDIT or EFFECT mode to down load demo program from memory. The GPI LED is flashing when down loading the demo program. After 60 seconds, the EZ-10 will playback demo program automatically. Press the "ENTER" key to exit demo program to "EDIT" mode.

### 4.3  Select a language to work on
The default language is "ENGLISH". You may change the language by pressing the "LANG" (language)key in "Edit" mode. Select the language you want using the language symbols shown above .

### 4.4  Select page to work on
To select a different page to work on, press the "PAGE" key and the number of the page that you want to go to (o to 9). The page number on the top of screen tells you what page you are on. You may press the "Page Up" or "Page Down" to go to the next or previous page.

### 4.5  Select background
You can create text on a live video image or on a color background. To select one of the standard 13  solid colors and either 256 custom solid colors or 39 pre-programmed rainbow gradient colors,  press the  "BACKGROUND"  key. The color selection bar will be shown on the top of screen as indicated below:

```
O: Clear 1:Rainbow 2:■ 3:■ 4:■ 5:■ 6:□ 7:■ 8:■ 9:□ A:■ B:□ C:□ D:■ E:□
```
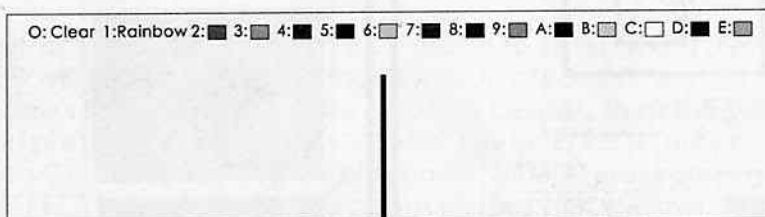
0: Clear
1: Rainbow
2: Green
3: Light Green
4: Magenta
5: Blue
6: Cyan
7: Brown
8: Red
9: Pink
A: Orange
B: Yellow
C: White
D: Black
E: Grey

### 4.5.1 Select a page without background color
Press the "0" key to select a clear background. This will allow you to see live video behind the text.

### 4.5.2 Select a standard solid color
Press the keys numbered "2" to "E" to select one of 13 solid background colors. Colors are shown on the color bar on the top of the screen.

### 4.5.3 Select a custom solid color
Press the "1" key to select a custom color. The default custom color is a red-orange-yellow gradation. You will see a menu bar on the top of screen as shown below:

```
USE ARROW KEYS TO CHANGE RAINBOW COLOR     ENTER= DONE
```

With the "Custom Color Select" screen, you can digitally create 256 solid colors! Each color is defined by three "R-G-B" digits. The first digit is for Red, the second digit is for Green, and the third Digit is for Blue. The digits "0" to "7" on the Keyboard are used to make the color selection ("8" and "9" are temporarily inactive). When you type in the three digits, the R.G.B. 3 digit number will be shown in the menu bar at the top of screen as follows:

```
USE ARROW KEYS TO CHANGE RAINBOW COLOR     R=2 G=4 B=5
```

When you type in the third digit, the chosen color fills the area below the Cursor Bar. Just a few of the three-digit combinations are listed next, with the colors they generate. Note that colors may vary, depending on the color settings and capacity of your display.

| | | |
|---|---|---|
| "000" = Black | "500" = Bright Red | "033" = Teal |
| "222" = Dark Gray | "705" = Pink | "044" = Light Blue |
| "444" = Light Gray | "730" = Orange | "007" = Bright Blue |
| "777" = white | "770" = Mustard Yellow | "636" = Lavender |
| "100" = Brown | "050" = Bright Green | "306" = Purple |
| "303" = Dark Red | "020" = Dark Green | "103" = Deep Purple |

Note: If the screen seems to "freeze" after you enter the three digits, (you type in a number and nothing happens), you probably pressed only two digits, or you pressed a digit too lightly or too quickly. If this occurs, simply press any digit key until you get a color change and then type in the three digits again.

### 4.5.4 Select a custom rainbow color
Press the number "1" key to select a rainbow color. The default rainbow color is a red-orange-yellow gradation. The words "USE ARROW KEYS TO CHANGE RAINBOW COLOR" will be shown on the top of screen. Press the arrow keys ← & → to select a different type of pattern and press the arrow keys ↑ & ↓ to change the resolution of pattern. There are a total of 39 rainbow colors, with each color pattern having 8 resolutions to choose from. After selecting the desired background color, press the "ENTER" key to return to "Edit" mode.

Note: To change a rainbow color again , simply press the "RAINBOW COLOR" key in "Edit" mode and then press the three digits number or the arrow keys to modify the custom color.

### 4.6 Select text colors
Press the "FACE COLOR" key to display the color manual on the top of screen. Select a color using the same method you used for background color selection.

### 4.7 Select text outline colors
Press the "OUTLINE COLOR" key to display the color manual on the top of screen. Select one of colors using the same method you used for background color selection.

### 4.8 Select text size
Each line of text can be one of three sizes. Press the "SIZE" key to select the desire size of text. **Note: The characters will be deleted which has been push out the TV screen when you press the size key to cycle select the character size.**

### 4.9 Select text font
Press the "FONT" key. The font manual will be shown as below. There are 30 type faces to choose from. (Each character of text can be a different font). Press the number 0 - 9 or A - T to select the desired font.

| | | | |
|---|---|---|---|
| 0 Aa Bb Cc | 8 AaBbCc | G AaBbCc | N AaBbCc |
| 1 AaBbCc | 9 AaBbCc | H AaBbCc | O AaBbCc |
| 2 AaBbCc | A AaBbCc | I AaBbCc | P AaBbCc |
| 3 AaBbCc | B AaBbCc | J AaBbCc | Q AaBbCc |
| 4 AaBbCc | C AaBbCc | K AaBbCc | R AaBbCc |
| 5 AaBbCc | D Aa Bb Cc | L AaBbCc | S AaBbCc |
| 6 AaBbCc | E AaBbCc | M AaBbCc | T AaBbCc |
| 7 AaBbCc | F AaBbCc | | |

### 4.10 Create text
Place the cursor where you want to begin your text. Enter the desired text.

A). To move cursor, press the SPACE BAR to move one space at a time. Press the "ENTER" key to move one line at a time.

Note: If you plan to make your text run across the screen like a "Tickertape (line shift) , use a small size font.

B). To make an upper case letter, Press the "SHIFT" key and the letter key. To make all upper case letters, press the "CAPS LOCK" Key. ( the word "CAPS" will show "ON" at the top of the screen when this key is on). Press the "CAPS LOCK" Key again to turn off the CAPS and return to lower case letters.

C). For keys with two white characters on them (such as "&" ), type normally for "lower" character. Press "SHIFT" key and the key for the "upper" character.

D). For keys with blue color characters on them (such as A ,)type normally for "white color" character. Press "ALT" key and the blue color key for the lower case "blue" character. Press "ALT" + "SHIFT" + the blue color key for "upper" blue character.

E). To erase text, place the cursor just to the left of the character or space that you want to delete. Press the "DELETE" key to erase the character or space. To erase an entire line, place the cursor anywhere on the line you wish to delete and press both "ALT" & "L-DELETE" keys. To delete an entire page, place the cursor anywhere on the page and press both "PAGE" & "DELETE" keys. To erase all pages, press the "ALT" + "SHIFT" + "DELETE" kéys.
**Note: Each page may contain up to 245 characters. The warning "OUT OF MEMORY" will be shown on the screen when you enter the "Effect" mode from the Edit mode if there are more than 245 characters on a page. You must delete characters to less than 245 characters on the page.**

**4.11 Select text shadow**

Press the "SHADOW" key. The shadow will be shown with the text by line. Press the "SHADOW" key again to turn off shadow.

**4.12 Select text outline**

Press the "OUTLINE" key. The outline will disappear. Press the "OUTLINE" key again to recover the outline. See Section 4.7 for instructions on how to change the outline color.

**4.13 Select text spacing**

Press the "TEXT SPACING" key. The text on the whole screen will cycle through the four spacing options. **Note: The characters will be deleted which has been push out the TV screen when you press the "TEXT SPACING" key to cycle select the text spacing.**

**4.14 Select text double width and height**

Press the "2 x WIDTH" or "2 x HIGH" key. The text will double width or height by line on the screen. Note: if text is extended past the right edge of the screen, it is not saved in memory. If it is resized to bring it back, it will not be there and you will have to reenter the missing text. **Note: The characters will be deleted which has been push out the TV screen when you press the "2 x WIDTH" or "2 x HIGH" key to cycle select the character size.**

**4.15 Insert/Delete a line**

To insert a blank line, move the cursor to the line where you wish to insert a blank line. Press the "L-INSERT" key to insert a blank line. To delete a line, move the cursor to the line where you wish to delete. Press the "ALT" + "DELETE" keys to delete a line.

**4.16 Center the text**

Move the cursor to the line you wish to center and press the "CENTER" key.

**4.17 Advance the page forward or backward**

To advance to the next page or return to the previous page, press the "PAGE UP" and "PAGE DOWN" keys while in Edit mode. Please note that if there is text on the next page, it will not

# 5.0 Playback Single Page Titles

5.1 You may playback the titling effects only for the current page displayed on your screen. Press the "PLAY" key to enter the playback mode. After the "IN/OUT" LED goes out, press the "PLAY" key again to activate the titling effects. The default titling effect is set at scrolling with a 3 second display time. You can change effects, wait time interval, and speed in "EFFECT" mode, which is described in next section .

# 6.0 Create Titling Effects

**6.1 Go from Edit Mode to Effect Mode**

After you create the title you want, press the "EFFECT MODE" key to enter Effect Mode. In Effect Mode you will see the following information on your screen.

| PAGE | EFFECTS | SPEED | WAIT TIME |
|------|---------|-------|-----------|
| PAGE 1 | IN: SCROLL IN PAGE | SP 3 | 00:03:00 |
|  | OUT: SCROLL OUT PAGE | SP 3 | 00:03:00 |
| PAGE 2 | IN: SCROLL IN PAGE | SP 3 | 00:03:00 |
|  | OUT: SCROLL OUT PAGE | SP 3 | 00:03:00 |
| PAGE 3 | IN: SCROLL IN PAGE | SP 3 | 00:03:00 |
|  | OUT: SCROLL OUT PAGE | SP3 | 00:03:00 |
| PAGE 4 | IN: SCROLL IN PAGE | SP3 | 00:03:00 |
|  | OUT: SCROLL OUT PAGE | SP3 | 00:03:00 |
| PAGE 5 | IN: SCROLL IN PAGE | SP3 | 00:03:00 |
|  | OUT: SCROLL OUT PAGE | SP3 | 00:03:00 |
| PAGE 6 | IN: SCROLL IN PAGE | SP3 | 00:03:00 |
|  | OUT: SCROLL OUT PAGE | SP3 | 00:03:00 |
| PAGE 7 | IN: SCROLL IN PAGE | SP3 | 00:03:00 |
|  | OUT: SCROLL OUT PAGE | SP3 | 00:03:00 |
| PAGE 8 | IN: SCROLL IN PAGE | SP3 | 00:03:00 |
|  | OUT: SCROLL OUT PAGE | SP3 | 00:03:00 |
| PAGE 9 | IN: SCROLL IN PAGE | SP3 | 00:03:00 |
|  | OUT: SCROLL OUT PAGE | SP3 | 00:03:00 |
| PAGE 10 | IN: SCROLL IN PAGE | SP3 | 00:03:00 |
|  | OUT: SCROLL OUT PAGE | SP3 | 00:03:00 |

## 6.2 Select a page to work on

When you switch into Effect mode, the cursor will stay on the page that you last edited will be displayed. You can change pages by moving the cursor to the Page Column. Select the page you wish to edit by pressing the "ARROW" keys.

## 6.3 Select "IN" effect

Move the cursor to Effect Column at the "IN" line of the page you wish to edit. You may select from the following various effects s: Scroll, Fade, Wipe, Line Shift, and Cut for IN and OUT page transition.

A). To make a CUT IN: Press the "CUT" key. The words "CUT" will appear on screen.

B). To make a FADE IN: Press the "FADE" key. The words "FADE" will appear on the screen.

C). To make a WIPE IN: Press the "WIPE" key. The words "WIPE FROM TOP OF PAGE" will appear on the screen. Press the "WIPE" key again to toggle between "WIPE FROM TOP OF PAGE" and "WIPE FROM BOTTOM OF PAGE" effect.

D). To make a LINE SHIFT, press the "LINE SHIFT" key. The words "LINE CRAWL IN/OUT AT PAGE BOTTOM" will appear on the screen. Press the "LINE SHIFT" key again to select "LINE CRAWL IN/OUT AT PAGE MIDDLE" and "LINE CRAWL IN/OUT AT PAGE TOP" effects.

Note: 1. The line shift effect is only available with small size fonts. It is available with all fonts, text colors, and background colors. The background and text colors are selected by page in Edit mode.
2. Line shift has a 6 line per page maximum. The lines numbered 7 to 10 will not appear with line shift effect.
3. The wait time is not available with line shift effect.

E). To make a text line SCROLL IN: This effect is pre-set and should appear when you enter the "EFFECT" mode. If not, press the "SCROLL" key. The words"SCROLL" will appear on the screen.

F). To make a "TOTAL PAGES LINK": You may program all page to link for scrolling effect by pressing the PAGE LINK" Key. The arrow sign "!" Will appear on the screen with page number. Press the "PAGE LINK" Key again to disable the total page link effect.

## 6.4 Select "OUT" effect

To determine how your title will disappear from the screen, move the cursor to "OUT" line of the page you wish to edit. The way to program "CUT", "SCROLL", WIPE and "FADE" effects is the same as with the "IN" effects as described above.

## 6.5 Select "SPEED" of effects

Move the cursor to speed column "IN" and "OUT" line of the page you wish to edit. The speed "3" is pre-set. Press a number key from "1" (Slow) to "5" (fast) to change speed.

## 6.6 Select 'WAIT" period

When you play back titles automatically, they will remain on the screen momentarily before disappearing. You can increase or decrease this "wait" time. Move the cursor to the "WAIT TIME column on the "IN" and "OUT" line of the page you wish to edit. Move the cursor to underline each digit and type the number you want. The number 00:00:00 is displayed with the following format: Minutes: Seconds: Frames.

# 7.0 Play Back Titles of all pages

## 7.1 Play back titles automatically

The "PLAY" key needs to be pressed twice to activate the playback effect. First, Move the cursor to the page you wish to play back. Then, press the "PLAY" key the first time to enter the "PLAY BACK" Mode. After few seconds (about four seconds) when "GPI" LED light is flashing, press the "PLAY" key a second time to start playback.

## 7.2 Play back titles manually

The manual mode plays back pages one at a time. This feature is good for reviewing the accuracy of titles and effects, page by page. Press the "AUTO/MANUAL" key to exit AUTO Mode and go into the Manual Mode. The AUTO/MANUAL LED will light off. Move the cursor to the page you wish to start from. Press the "PLAY" key. After few seconds (about four seconds)when "GPI" LED is flashing, press "PLAY" key a second time. The text you created on that page will appear on the screen with the effect you selected-- but the text will not disappear automatically. To make the text disappear in manual mode, you must press the "PLAY" key again. Continue to press the "PLAY" key to playback the next page, until the last page that you want to review has played. During Manual Model, you can create fade effects by using the T-Bar. The T-Bar should be always start in the upper position. Slide down to make a "FADE OUT" effect.

## 7.3 Play back titles with "auto recycle"

Use this feature to run your sequence of text pages continuously. Press the "SHIFT" + "DEMO" Keys. The red words "AUTO CYCLE" will be shown at the bottom right corner of the screen. Press the "PLAY" key. When "GPI" LED light is flashing, press the"PLAY" key a second time. All of your text pages will playback in order (starting with page 01), and will continue to play until you press the "ENTER" key.

# 8.0 Program a "GPI" Mode

To program a GPI effect, you must be in the Effect mode. Once you are in the Effect Mode, press the GPI key. The GPI LED will light when GPI mode is selected. Then press the "PLAY" key to enter the "GPI" mode. The Effect Mode menu screen will disappear and the EZ-10 is ready for an external trigger signal. The "IN" and "OUT" effects for Page"01" will be activated when the external trigger signal is received. The next trigger signal will playback the next page (page 02) . The "Wait Time" pre-programmed with each page will be the interval time between IN & OUT. Press the "GPI" key again to exit the GPI Mode.

(ONLY FOR USERS WITH GPI-COMPATIBLE EXTERNAL DEVICES ) Select the GPI trigger mode "single" or "double" trigger.
If you have a GPI-compatible external Editor (eg. Video Editor with a GPI control jack), you need to determine which type of GPI trigger is utilized by the Editor (see below).
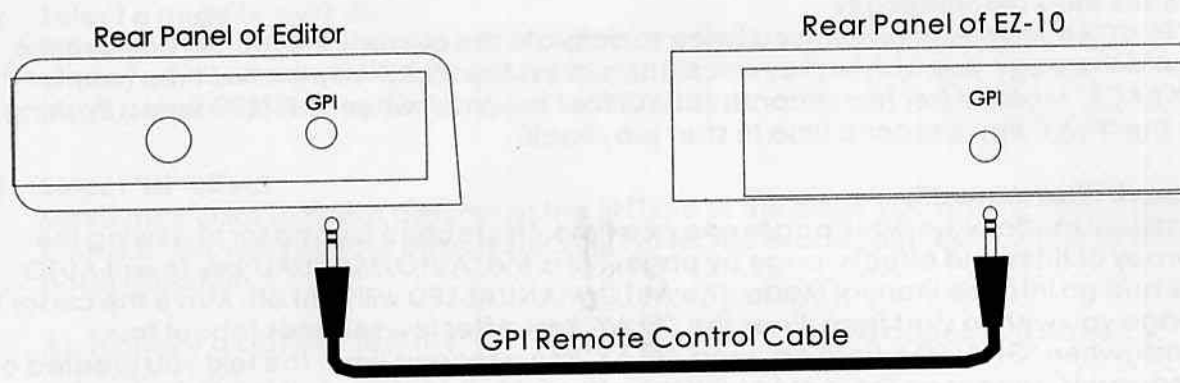
> a) What is a GPI tigger ?
> The GPI(General Purpose Interface) trigger is an advanced feature that allows the Editor to "cue" GPI -compatible external devices (such as the Datavideo's SE-200 Integrated Editing Center) to "play" effects automatically at specified points during an edit sequence. A detailed description of how to do this will follow shortly.
> NOTE: to connect the GPI jack to the GPI jack on an external device, use a standard 3.5 mm stereo cable (a cable with a 3.5 mm stereo plug on both ends):
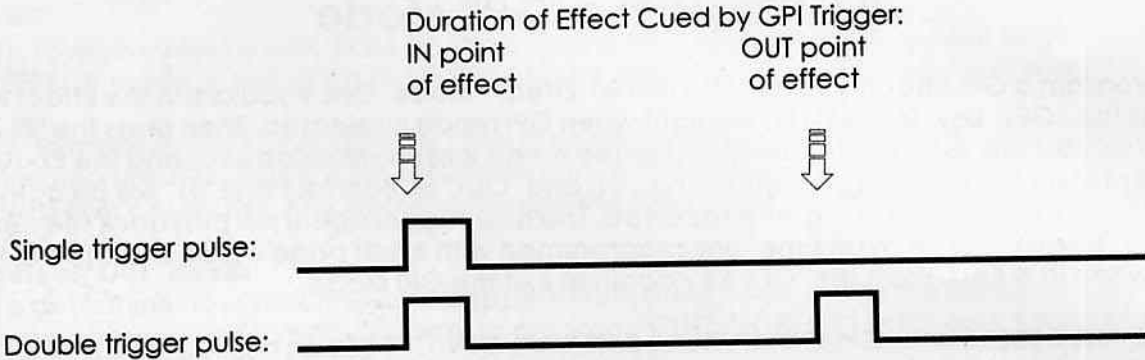
GPI Cable(Included)

Rear Panel of Editor                                    Rear Panel of EZ-10

GPI                                                     GPI

GPI Remote Control Cable

**WARNING: NEVER plug a power source (such as an AC adapter) into a GPI jack.
Damage to the device can occur which could void the warranty on the device.**

b) What is the difference between a "single" and "double" GPI trigger?
   Any device that has a "single" GPI trigger (eg. the Datavideo EZ-10 EZ Titler) utilizes just
   one electrical pulse to control the duration of an effect (the single pulse signals both
   the "IN" and "OUT" points of the effect). Any device that has a "double" GPI trigger
   utilizes two electrical pulses to control the duration of an effect (one to signal the
   effect's "IN" point; the other to signal the effect's "OUT" point). This concept is illustrated
   below:

Duration of Effect Cued by GPI Trigger:
IN point                        OUT point
of effect                       of effect

Single trigger pulse:

Double trigger pulse:

**Note: The EZ-10 only accepts single trigger pulse. Please set up your editor (e.g.
Datavideo's SE-200) in single trigger mode to edit with EZ-10.**

# 9.0 Save the Pages into Memory

When you are finished editing, you can save the pages you have edited. **If you do not save your project, the project will be lost when you turn the machine off.** The EZ-10 can store two projects, each project containing up to 10 pages. To save the pages, press the "ALT" + "SAVE" keys in either Edit Mode or Effect Mode. The menu bar will be shown on the screen as follows:

| SAVE | PROJECT AS 1= PROJECT 1, 2= PROJECT 2 0= CANCEL |
|---|---|

Save the project by pressing the number "1" or "2" key to select project number "1" or "2". It will take about 10 seconds to save the project. The menu screen will disappear when the save mode is activated. The menu screen will appear again when saving is completed. Press the key "0" if you want to cancel the save mode.

**Warning: Please be careful when saving projects into memory. Previously stored projects with the same project number will be deleted. There is no warning shown on screen to remind you.**

# 10.0 Load the Project pages from Memory

At the beginning of editing, you can either create a new page of information or load previously created pages that stored in memory as a project. To load the pages, press the "ALT" + "LOAD" keys in either Edit Mode or Effect Mode. The menu bar will be shown on the screen as follows:

| LOAD | PROJECT AS 1= PROJECT 1, 2= PROJECT 2 | 0= CANCEL |
|---|---|---|

To load the pages from a project, select the project number "1" or "2" by pressing the number "1" or "2" key. Loading stored pages will take much longer than saving the pages. It will take up to about 10 seconds for each page to load from memory (it's required about 70 seconds to down load one project/10 pages from memory). The menu screen will disappear when load mode is activated and menu screen will be appear again when loading is completed. **The GPI LED is flashing when you are down loading the pages information from memory.** Press the key "0" if you want to cancel the load mode.

# 11.0 Specifications

**VIDEO**
* Input & Output Impedance-------------------------- 75ohm
* Input & Output Level------------------------------- 1.0 Vp-p nominal
* Frequency Response-------------------------------- 5 MHz Approx. (comp. video signal)
                                                       5.5 MHz Approx.

**AUDIO**
* Input Impedance ---------------------------------- 47K ohm approx.
* Output Impedance --------------------------------- 1k ohm approx.
* Frequency Response ------------------------------- 20 to 20 KHz +/-3dB
* S/N Ratio ----------------------------------------- 65dB typical
* THD ----------------------------------------------- 0.1% typical
* Output Gain --------------------------------------- Unity
* Power Requirement -------------------------------- DC12V 6W
* Dimensions --------------------------------------- 380 (W) x 245 (D) x 55(H) m/m
* Weight -------------------------------------------- 2.0 Kg approx.