

# FALCO 500e SERIES

## CONFIGURATION GUIDE

P/N 210010-000

Revision A

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**A.1 Graphic Window Quick Setup**

This section will outline:

1. How to Create an FBG/Tektronix 4010/4014 Window
2. How to Create More Memory
3. How to Configure the FBG Window
4. How to Create a Text Window
5. How to Link the Two Windows

This section will be for a terminal with only FBG I installed. The differences when FBG II is installed are outlined at the end of this section.

**How to Create an FBG/Tektronix 4010/4014 Window**

To create an FBG Window for use with Tektronix 4010/4014 applications, enter Setup and move to the Window Setup screen. The **New Window** field will be highlighted. Press **Enter** (End on an AT Keyboard) to create a new window. In order to make the most of the available memory, create Window 2, make the type FBG (2), the page size 1 and the number of pages 1.

**How to Create More Memory**

To create more memory, delete Window 1. To do this, highlight the **Delete Window** field, press **Enter** (End on an AT Keyboard) and enter a 1 when prompted. This will free up enough memory to make the FBG Window 23 lines.

**How to Configure the FBG Window**

Highlight the **PgSz** field in the FBG Window matrix and enter a 23. A 23 line FBG I Window will handle most Tektronix Graphics applications.

**How to Create a Text Window**

Now highlight the **New Window** field again. This time, create Window 1 as an 80 only type (1) with a 24 line page size and 1 page of memory. Now you have two windows, 1 FBG and 1 text.

**How to Link the Two Windows**

To use both windows with the same host, there are 2 steps which must be taken.

First, in the Window Setup screen, you must configure the **T/F** field of the window matrix. Window 1's should be set to 2 and Window 2's should be set to 1. Thus, any graphic command

entered in the text window will switch the terminal to the FBG Window and vice versa.

Second, the auto main receive field in the Comm Setup must be toggled to read **Auto Main Rcv**. This is so the main receive port will also switch when the windows are switched.

### **When FBG II Is Installed**

When FBG II is installed, follow the previous steps as outlined, with one exception. When creating the FBG Window, make the page size 49. Also, it is necessary to set the terminal to FBG II in the FBG Setup screen.

To set the terminal to FBG II, it is necessary to attach the keyboard to the FBG Window in the Comm Setup screen. This is done by highlighting the **Key** field in the FBG Window matrix and pressing **Enter** (**End** on an AT Keyboard) to toggle this field to the indicator arrow. Then move to the FBG Setup screen and toggle the **FBG I** field to read **FBG II**.

### **A.2 FBG Special Setup Features**

This section will detail the parameters available when operating in an FBG Window.

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FBG Setup

FALCO SETUP

Online  Full  Falco Esc  Del  Hold Screen @ Marg

Normal Print  Epson 5  Break  Setup  Status  Caplock

Keyset 1  CR = CR  LF = LF  GIN Term = CR  Relative

FBG I  Save  Recall  Title: Falco 5000

[Prev Scrn] = Dir [Next Scrn] [SETUP] = Exit [Enter][LF] = Select < arrows >

---

Each graphics window has it's own FBG Setup screen and can be configured separately for the parameters listed below.

### **Communications Mode**

This option sets the terminal to operate as follows:

Option	Status Line	Function
Online	(blank)	Bidirectional communication with each keystroke
Block	<b>BLK</b>	Data is sent in <b>block</b> form
Local	<b>LOC</b>	No communication takes place through the main port

### Duplex Mode

Duplex is only functional **online**. In **Full Duplex** mode, data goes directly out the port without displaying on the screen, while data is both displayed and sent out in **Half Duplex** mode.

### Falco Escape

When set to **No Falco Esc**, the terminal will not execute any of the Falco escape sequences. Otherwise, the escape sequences will be executed normally.

### Delete

When toggled to **No Delete**, the terminal will ignore any deletes sent from the host. When toggled to **Delete**, the delete will be interpreted as a coordinate position code.

### Hold Screen

In Alpha Mode the page is divided into two columns. An automatic hold screen can be set to execute at either the end of the screen (EOS), the end of the first column (**Marg**) or not at all (**No Hold Screen**).

### Print

There are three print options available.

Option	Definition
Normal Print	Data is displayed normally
Extend Print	Each received character will be displayed and passed out the auxiliary port
Transparent Print	Each received character will be passed out the auxiliary port, but will not be displayed

### Printer Selection

The option toggles between Epson 5, Epson 7, IBM Pro and DEC LA, to set the printer port to the correct printer type. The Epson 5 is for low resolution Epson mode 5 printers. It is

for use with FBG I or, if a high resolution output is not required, FBG II. Epson 7 is a higher resolution output for use with FBG II. More time is required to produce this output.

### Break

**No Break** will disable the **Break** key.

### Setup

Setting this block to the **No Setup** option will prevent accidental entry into the Setup Directory while using the keyboard for normal entry. To re-enter the Setup Directory when the **Setup** key is disabled, press the **Shift** and **Setup** keys simultaneously.

### Status

When activated, the status line will be displayed on the system screen. When disabled, the status line will not be displayed. Note that if there is another window under the disabled status line, the status line from that window will be displayed.

### Caplock

This option will toggle between:

- |                     |  |
|---------------------|--|
| <b>Caplock</b>      | the <b>Lock</b> key will lock the alpha keys in the uppercase position                           |
| <b>Shift Lock</b>   | the <b>Lock</b> key will work exactly like a typewriter lock.                                    |
| <b>Disable Lock</b> | the <b>Lock</b> key will be disabled, leaving the alpha keys in their previous Caplock position. |

### Key Set

The number of programmable function keys can double with this option. After programming the keys under **Keyset 1**, set this option to **Keyset 2** and program them again.

### Carriage Return

Toggles the **Return** key to transmit as either a CR (carriage return) or as a CRLF (carriage return-line feed).

### Line Feed

Toggles the **Line Feed** key to transmit as either a LF (line feed) or as a CRLF (carriage return-line feed).

### GIN Terminator

Graphic Input terminator can be set to either a carriage return (**CR**), a carriage return and an End Of Transmission (**EOT**) or none at all (**None**).

## Relative

When using an FBG page size that is smaller than the Tektronix screen size, it is possible to select whether the alpha cursor will remain in the selected page size when Home, Line Feed, Up or Down is executed. By setting this option to **Relative**, the cursor will move within the selected page size. When this option is toggled to **Originate**, the cursor will move within the constraints of the Tektronix screen.

## Falco Business Graphics

When the Falco Business Graphics II option is installed, the terminal can be toggled between FBG I and FBG II depending upon the user's need. Although FBG II has better resolution (1120x400) than FBG I (560x400), it uses more memory.

## Save

Any changes that have been made in the Terminal Setup and Special Setup screens can be saved in non-volatile memory with this option. This option is used to save parameters for each individual window being configured.

## Recall

If the **No Auto Save** option was chosen in the Setup Directory screen, then this option will **Recall** the previously saved Terminal Setup and Special Setup parameters.

## Title

This option will prompt for a ten character **Title** for the terminal. The title will appear on the status line.

## A.3 Changes to the Quick Setup Manual

### Setup Directory

The first field of the Setup Directory will now enter the Port/Soft-key Setup screen. This screen is a combination of the Soft-key screen and the Comm Setup screen.

The number of lines in the **Lines** field can now be set to 50.

### Communication Setup

The Comm Setup no longer accesses the individual Port Setup screens, this function is executed in the Port/Soft-key Setup.

An additional field, **Nxt**, has been added. This field is used to select a window, other than the next one numerically, for the terminal to toggle to with **Ctrl F1** (**Ctrl F6** on the F5220 keyboard).

### Port/Softkey Setup

The fields for accessing the Port Setup and editing Soft Keys are now combined in the Port/Soft-key Setup screen. The fields for selecting the number of receive buffers are also included.

### Window Setup

The Window Setup remains the same except for one field, the T/F field. This field is used to select an alternate window for the terminal to switch to when executing a graphics command from a text window or returning to a text window after the graphics command has been executed.

### Programming Soft Keys

There are now two ways to program Soft Keys in Setup. The first, the original way, is to use the **Edit Key** field and then just press the key to be programmed.

The second way to program a Soft Key in Setup is by:

1. Highlighting the Edit Key field
2. Pressing Enter
3. Then entering the Soft Key code (i.e., 06 for **F6**)
4. Then pressing Enter again.

Pressing **Enter** in step 4 will display the contents of the key. At this point, program the key in the normal way.

This second way is to accommodate three new keys that are available, the Mouse keys. See below.

#### A.4 The Installation of a Mouse

When using a mouse, the following steps must be taken. First, the **No Mouse** field in the Comm Setup field must be toggled to either **Msoft Mouse** for a Microsoft Mouse or **Msys Mouse** for a mouse which uses Mouse System protocol (i.e., Logimouse), depending upon the mouse being used.

After the proper protocol has been selected the port which the mouse will be attached to must be selected. This is the field next to the protocol field in the Comm Setup. Note the port selected as the mouse port is not affected by the **Auto Main Rev** field when switching from window to window.

After the port has been designated, it is necessary to properly configure the parameters of the port. To do this, use the **Next Scrn** key to move to the Port/Soft-key Setup screen and



highlight the field of the mouse port. Press **Enter** to move into the Port Setup field. The parameters should be set as follows:

Field	Value	Field	Value
Baud Rate	1200 baud	Stop Bits	1
Bits and Parity	8 Bits, No Parity	Transmit Control	No Xmit Ctrl
Receive Control	No Rcv Ctrl	Transmit Speed	No Xmit Limit

Now attach the mouse to the port according to the manufacturer's instructions.

After the mouse is attached to the terminal, it is possible to adjust the scale the mouse uses to gauge its movement. There will be a field made available in the Terminal Setup screen, **Mouse Scale = 16**, for this function. To adjust the speed of the mouse toggle this field to the appropriate number.

When operating in an FBG window the **Mouse Scale** field is made available in the FBG Setup screen.

Also, it is possible to load the mouse keys with specific functions. Listed below are the mouse keys, their soft key codes and their default values. See the previous page to program these keys using the code.

Key	Code	Default
Mouse Left	ML	ESC
Mouse Center	MC	'kCR (execute Return)
Mouse Right	MR	'kEN (execute Enter)

### A.5 The Alarm Clock

There is an Alarm Clock function available on the Falco 5000 and the Falco 500e. This function is accessed through the Setup Directory screen. To activate the Alarm, highlight the Alarm field and press **Enter**. This will move you into the Alarm Setup screen.

Once in the Alarm Setup screen, any of the parameters shown can be altered by highlighting the starred field under the value and pressing **Enter**. After this is done a second field is made available directly to the right of the starred field. To change the value of this field, move over with the arrow keys and enter the new value.

The Soft Key field will not be made available until one of the parameters for that alarm is activated. The default alarm, CK, is a bell (Ctrl G).

**A.6 Escape Sequence List**

The following lists apply to all the terminal models. All of the Falco Mode Escape Sequences can be used in the other modes if the following substitutions are made:

Mode	Substitute	For	Mode	Substitute	For
Wyse	ESC < <	ESC [ <	Wyse	ESC ~	ESC
TVI	ESC z	ESC	DG	ESC z	ESC
IBM	ESC z	ESC			

ESC z may not work for all modes, depending upon the terminal characteristics.

CSI is an 8 bit control code equivalent to ESC [.

DCS is an 8 bit control code equivalent to ESC P.

ST is an 8 bit control code equivalent to ESC \.

**A.6.1 IBM Mode Escape Sequences**

Terminal Control			
Reads status	ESC 6	Transfers contents of display buffer	ESC 8
Reads Setup switch	ESC 7	Set functions	ESC 9
Keyboard Control			
Locks keyboard	ESC :	Unlocks keyboard	ESC ;
Display Control			
Set tab at cursor	ESC 0	Clear tab at cursor	ESC 1
Protect Unprotect Control			
Set protect field attribute	ESC 3 Pc		
Cursor Control			
Move cursor	ESC Ps	Tab left	ESC 2
Move buffer address	ESC X Pc1 Pc2	Set cursor address to buffer address	ESC Z
Move cursor address	ESC Y Pc1 Pc2	Read cursor address	ESC 5
Edit Mode Control			
Clear to end of field	ESC I	Clear display	ESC K
Clear to end of display	ESC J	Clear display to nulls	ESC L
Insert line	ESC N	Insert character	ESC P
Delete line	ESC O	Delete character	ESC Q
Send and Print Control			
End transfer	ESC S		
Print line	ESC U	Print page	ESC W

## A.6.2 Falco Mode Escape Sequences

<b>Mode Control</b>			
Enable monitor mode	ESC U	Switch terminal mode	CSI < Ps M
Disable monitor mode	ESC u	Read terminal mode	CSI < m
Disable monitor mode	ESC X		
Set block mode	ESC B	Set local mode	ESC Ctrl _
Set conversation mode	ESC C	Set half duplex	ESC {
Set conversation mode	ESC Ctrl ^	Set full duplex	ESC }
<b>Terminal Control</b>			
Enable auto repeat	ESC _ 9	Enable auto wrap	ESC ~
Disable auto repeat	ESC _ :	Disable auto wrap	ESC 0
Enable auto linefeed	ESC 8	Enable margin bell	ESC o
Disable auto linefeed	ESC 9	Disable margin bell	ESC n
Enables keyclick	ESC >	Disables keyclick	ESC <
Enables keyclick	ESC _ 1	Disables keyclick	ESC _ 2
Lock keyboard	ESC #	Hold screen on	ESC _ 3
Unlock keyboard	ESC *	Hold screen off	ESC _ 4
Num lock on	ESC _ 5	Caps lock on	ESC _ 7
Num lock off	ESC _ 6	Caps lock off	ESC _ 8
Set terminal value	CSI P1;P2 v	Ring bell	ESC _ 0
Send keyboard status	ESC   w		
<b>Display Control</b>			
Screen display off	ESC O	Read screen brightness	CSI < B
Screen display on	ESC N	Set screen brightness	CSI < 1;Pn B
Screen saver timer	CSI < Pn s	Draw box on screen	ESC H P1 P2
Set screen format	CSI < Ps S	Load message line	ESC f STR CR
Change screen lines	CSI < Ps L	Display message line	ESC g
Select screen attribute	ESC G Pc	Turn message line off	ESC e
Display status line	ESC h	Reverse video	ESC b
Load status title	ESC   y STR	Normal video	ESC d
Select page & cursor features	ESC   v Pc		
Graphic mode on	ESC \$	Graphic mode off	ESC %
<b>Reset Function Control</b>			
Soft reset	ESC _ ;	Reset PC mode	ESC m
<b>Prtct/Unprct Contrl</b>			
Select protect attribute	CSI < Ps T		
Enable protect mode	ESC &	Enable write protect	ESC )
Disable protect mode	ESC '	Disable write protect	ESC (
<b>Page Control</b>			
Enable autopage mode	ESC v	Display previous page	ESC J
Disable autopage mode	ESC w	Display next page	ESC K
Display page Ps	CSI 1;Ps }	Display page Pn	CSI < Pn P
Set scroll region	CSI Pn;Pn r		
<b>Cursor Control</b>			
Set cursor type	ESC . Ps	Set cursor type	CSI < Ps c
Move cursor (80 col)	ESC = Pc Pc	Move cursor (80 col)	ESC - Pc Pc Pc
Move cursor (132 col)	ESC - Pc Pc ~Pc	Move cursor decimal	CSI Pn;Pn H

Move cursor up	CSI Pn A	Move cursor down	CSI Pn B
Move cursor right	CSI Pn C	Move cursor left	CSI Pn D
Home cursor	CSI H	Reverse linefeed	ESC j
Rd crsr postn (PRC)	ESC /	Rd crsr postn (RC)	ESC ?
Rd crsr postn (RC)	CSI 6 n	Rd crsr postn (PRC)	CSI ? 6 n
Set tab	ESC 1	Clear tab	ESC 2
Clear all tabs	ESC 3	Tab left	ESC I
Tab right	ESC i		
Edit Mode Control			
Enable local edit	ESC k	Enable insert mode	ESC Z
Enable duplex edit	ESC l	Disable insert mode	ESC r
Insert line	ESC E	Insert Pn lines	CSI Pn L
Insert blank	ESC Q	Insert Pn blanks	CSI Pn @
Del unprt line	ESC R	Del Pn unprt lines	CSI Pn M
Del unprt char	ESC W	Del Pn unprt chars	CSI Pn P
Del end unprt field (SP)	ESC T	Del unprt field (NL)	ESC t
Del end unprt page (SP)	ESC Y	Del unprt page (NL)	ESC y
Del screen (NL)	ESC *	Del unprt scrn (SP)	ESC + or ESC ;
Del unprt screen (PRT)	ESC ,	Del unprt scrn (NL)	ESC :
Del unprt (Ps)	CSI Ps K	Del unprt (Ps)	CSI Ps J
Send and Print Control			
Send delimiter	ESC x 4 Ps Ps	Print delimiter	ESC p Ps
EOL delimiter	ESC x 1 Ps Ps	FBG printer type	CSI < Ps f
Send unprt line	ESC 4	Send line	ESC 6
Send unprt page	ESC 5	Send page	ESC 7
Send unprt message	ESC S	Send unprt message	ESC s
Program answerback	ESC   STR CR	Print page	CSI 0;Ps i
Enable ext print	ESC @	Enable trans print	ESC ^
Disable ext print	ESC A	Disable trans print	ESC a
Frmt print	ESC P	Unfrmt print	ESC L
Softkey Control			
Invoke softkey	CSI CD	Invoke softkey	ESC   x CD
Program softkey	ESC $\bar{c}$ CD STR CtrY		
Character Set Control			
Clear char font	ESC c ? Pn	Load char font	ESC c A Pn Ps STR
Invoke char set	ESC c Ps		
Setup Control			
Save Setup values	CSI 0;1 }	Select Setup action	CSI < Ps A
Set parameter	CSI < Ps h or l		
Communication Control			
Connect main port	CSI < P1 [;Ps;Pn] C	Trans param	CSI < P1;P2;P3 x
Connect aux port	CSI < P1 [;P2;Pn] Z	Word strt	CSI < P1;P2;P3;P4;P5 X
Select rec param	CSI < P1;P2;P3 R	Select rec buf	CSI < P1;P2 b
Window Control			
Make or delete window	CSI < P1;P2;P3[;P4] w	Rd wndw param	CSI < Ps [; Pn] r
Load window parameters	CSI < Ps ; Pn p	Assign keyboard	CSI < Pn a

A.6.3 DEC Mode Escape Sequences

VT200 Escape Sequences

<b>Mode Control</b>			
Set submode	CSI 6 Ps * p	Switch to VT52	CSI ? 2 I
Set National mode	CSI ? 42 h	Set VT200 7-bit	ESC SP F
Set Multinational mode	CSI ? 42 l	Set VT200 8-bit	ESC SP G
<b>Reset Function Control</b>		<b>Prot/Unprot Control</b>	
Power up selftest	CSI ! p	Set protect mode	CSI Ps * q
<b>Edit Mode Control</b>			
Erase Pn char	CSI Pn X	Erase unprt scrn	CSI ? Ps J
Insert Pn lines	CSI Pn L	Erase unprt line	CSI ? Ps K
<b>Send Print Control</b>			
Request UDK status	CSI ? 25 n		
Terminal ID	CSI c	Terminal ID	ESC Z
<b>Softkey/Character Set Control</b>			
Soft char set	DCS Pfn;Pcn;Pe;Pcms { Dscs Dres[;:]ST		
Invoke G0	ESC ( Dscs	Invoke G2	ESC * Dscs
Invoke G1	ESC ) Dscs	Invoke G3	ESC + Dscs
Invoke G1 into GR	ESC ~	Invoke G3 into GL	ESC o
Invoke G2 into GL	ESC n	Invoke G3 into GR	ESC
Invoke G2 into GR	ESC }	Invoke G2 into GL	ESC N
Load F keys	DCS P1;P2P3/ P4[;P3/P4.]ST	Invoke G3 into GR	ESC O

VT52 Escape Sequences

<b>Mode Control</b>			
Request for terminal ID	ESC Z	ID response	ESC / Z
Set VT100 mode	ESC <		
<b>Keyboard Control</b>			
Read keyboard type	CSI ? 26 n		
Set application keypad	ESC =	Set numeric keypad	ESC >
<b>Cursor Control</b>			
Move cursor YCR	ESC Y R C		
Move cursor up 1 line	ESC A	Move cursor right	ESC C
Move cursor down 1 line	ESC B	Move cursor left	ESC D
Move cursor home	ESC H	Reverse linefeed	ESC I
<b>Edit Mode Control</b>			
Erase to end of screen	ESC J	Erase to end of line	ESC K

Print Control			
Print line	ESC U	Print screen	ESC ]
Set transparent print	ESC W	Set auto print mode	ESC ^
Set normal print	ESC V	Reset auto print	ESC _
Set graphic char	ESC F	Set ASCII char	ESC G

### VT100 Escape Sequences

Terminal Control			
Set full duplex mode	CSI ? 2 h	Set half duplex mode	CSI ? 2 l
Set auto repeat	CSI ? 8 h	Reset auto repeat	CSI ? 8 l
Set application cursor key	CSI ? 1 h	Set application numeric keypad	ESC =
Set standard cursor key	CSI ? 1 l	Set standard numeric keypad	ESC >
Lock keyboard	CSI 2 h	Set linefeed mode	CSI 2 0 l
Unlock keyboard	CSI 2 l	Set new line mode	CSI 2 0 h
Soft reset	ESC c		
Display Control			
Enable Auto Wrap	CSI ? 7 h	Set 132 columns erase screen	CSI ? 3 h
Disable Auto Wrap	CSI ? 7 l	Set 80 columns erase screen	CSI ? 3 l
Set dbl hgt dbl wdth, top	ESC # 3	Set dbl wdth	ESC # 6
Set dbl hgt dbl wdth, bottom	ESC # 4	Set nrml hgt/wdth	ESC # 5
Set scrolling region	CSI P1;P2 r		
Set origin mode	CSI ? 6 h	Reset origin mode	CSI ? 6 l
Reverse video	CSI ? 5 h	Smooth scrolling	CSI ? 4 h
Normal video	CSI ? 5 l	Jump scrolling	CSI ? 4 l
Clear tab	CSI 0 g	Clear all tabs	CSI 3 g
Set video attribute	CSI P s m	Fill screen with E's	ESC # 8
Cursor Control			
Set cursor display	CSI ? 2 5 h	Save cursor attributes	ESC 7
Reset cursor display	CSI ? 2 5 l	Restore cursor attributes	ESC 8
Move cursor up Pn lines	CSI Pn A	Move cursor right Pn lines	CSI Pn C
Move cursor down Pn lines	CSI Pn B	Move cursor left Pn lines	CSI Pn D
Linefeed, carriage return	ESC E	Reverse linefeed	ESC M
Move cursor	CSI Pn;Pn f	Linefeed	ESC D
Move cursor	CSI Pn;Pn H		
Edit Mode Control			
Insert mode	CSI 4 h	Rplcmnt mode	CSI 4 l
Del Pn char	CSI Pn P	Del Pn lines	CSI Pn M
Del line	CSI Ps K	Del unprt line	CSI Ps J
Insert Pn lines	CSI Ps L	Crsr postn report	CSI P1;P2 R
Send and Print Control			
Printer status request	CSI ? Ps n	Print screen	ESC [ 0 i
Request device attributes	CSI > c	Print line	CSI ? 1 i
Status response/request	CSI Ps n	Set form feed mode	CSI ? 1 8 h
Set auto print mode	CSI ? 5 i	Reset form feed mode	CSI ? 1 8 l
Reset auto print mode	CSI ? 4 i	Set transparent print mode	CSI 5 i
Set scroll/region	CSI ? 1 9 h	Reset transparent print mode	CSI 4 i
Reset scroll/region	CSI ? 1 9 l		

## A.6.4 Wyse Mode Escape Sequences

<b>Mode Control</b>			
Set block mode	ESC B	Set local edit mode	ESC k
Set Conversation Mode	ESC C	Set duplex edit mode	ESC l
<b>Terminal Control</b>			
Request terminal ID	ESC SP		
<b>Keyboard Control</b>			
Lock keyboard	ESC #	Unlock keyboard	ESC *
<b>Display Control</b>			
Select full or split page format	ESC x Pc1 Pc2	Select text seg 0	ESC ]
Select alternate text seg	ESC   Pc1 Pc2 (TVI)	Select text seg 1	ESC }
Move cursor	ESC J	Load host msg field	ESC F STR CR
Set tab	ESC - Ps Pc Pc	Clear tab	ESC 2
Display STX	ESC 1	Clear all tabs	ESC 0
Select page features	ESC 8	Display ETX	ESC 9
Set video attribute	ESC ' Pc	Set video attribute	ESC A Pc1 Pc2 (WY50)
Blank	ESC G Pc	Set video attribute	ESC Pc1 Pc2 (TVI)
No blank	ESC _ (TVI920)	Blinking	ESC ^ (TVI920)
Rev video	ESC q (TVI920)	No blinking	ESC q (TVI920)
No rev	ESC j (TVI920)	Undln	ESC l (TVI920)
	ESC k (TVI920)	No undln	ESC m (TVI920)
<b>Protect/Unprotect Control</b>			
Set protect column	ESC V		
Fill unprotect w/ attribute	ESC ! Pc	Fill unprt w/ attr	ESC . Pc (WY50)
Enable protect mode	ESC &	Enable write protect	ESC )
Disable protect mode	ESC '	Disable write protect	ESC (
<b>Page Control</b>			
Enable scrolling	ESC O	Disable scrolling	ESC N
<b>Cursor Control</b>			
Home cursor	ESC {		
Tab left	ESC I	Move to row Pc	ESC   Pc
Tab right	ESC i	Move cursor	ESC a Pn R Pn C
<b>Edit Mode Control</b>			
Del page to nulls	ESC :	Del page no prt (NL)	ESC *
Del page to spaces	ESC ; or ESC +	Del page no prt (PR SP)	ESC ,
Del end of screen (NL)	ESC y	Del end of line (NL)	ESC t
Del end of screen (SP)	ESC Y	Delete line (SP)	ESC T
Insert blank	ESC Q	Insert line	ESC E
Delete character	ESC W	Delete line	ESC R
Enable insert mode	ESC q	Disable insert mode	ESC r
<b>Send and Print Control</b>			
Send csr postn (T,R,C)	ESC /	Send to cursor	ESC 7
Send csr postn (80 col)	ESC ?	Send csr postn (132 col)	ESC b

Send character	ESC M	Send to cursor	ESC s
Send unprt line	ESC 4	Send unprt to cursor	ESC 5
Send line	ESC 6	Send to cursor, home	ESC S
Print unfmt page	ESC L or ESC p	Print page	ESC P
Print unprt from home to cursor	ESC @ (WY50)		
Disable trans print	ESC a (925/910)	Enable trans print	ESC ^
<b>Softkys/Char Control</b>			
Enable graphic mode	ESC H STX	Enter one grph char	ESC H Pc
Disable graphic mode	ESC H ETX	Program function key	ESCzPc STR DL
<b>Communication Control</b>			
Set full duplex mode	ESC D F	Set half duplex mode	ESC D H
<b>Hazeltine Escape Sequences</b>			
<b>Mode Control</b>			
Enable monitor mode	ESC U	Disable monitor mode	ESC u or ESC X
<b>Keyboard Control</b>			
Lock keyboard	~Ctrl U	Unlock keyboard	~Ctrl F
<b>Protect/Unprotect Control</b>			
Set write protect on	~Ctrl Y	Set write protect off	~Ctrl _
<b>Cursor Control</b>			
Move cursor down	~Ctrl K	Home cursor	~Ctrl R
<b>Edit Mode Control</b>			
Del end of line	~Ctrl O	Del line	~Ctrl S
Del end of screen	~Ctrl W	Del end of screen	~Ctrl
Insert line	~Ctrl Z	Clear screen	~Ctrl
Clear unprt screen	~Ctrl ]		
<b>Send and Print Control</b>			
Request cursor position	~Ctrl E		
<b>Communication Control</b>			
Disable extension port	~Ctrl T		
<b>ADDSVP Escape Sequences</b>			
<b>Keyboard Control</b>			
Lock keyboard	ESC 5	Unlock keyboard	ESC 6



Cursor Control			
Move cursor to PsxPs	ESC Y Ps1 ; Ps2		
Edit Mode Control			
Del page to spaces	ESC k	Delete line	ESC I
Del end of line	ESC K	Insert line	ESC M
Protect/Unprotect Control			
Set protect attribute	ESC O Pc		
Send and Print Control			
Send unprotected message	ESC S		
Enable trans print	ESC 3	Disable trans print	ESC 4

### A.6.5 Televideo Mode Escape Sequences

Mode Control			
Enable monitor mode	ESC U		Set half duplex
Disable monitor mode	ESC u or ESC X	Set full duplex	ESC D F
Set block mode	ESC B	Set converstn mode	ESC C
Set local mode	ESC c		
Terminal Control			
Request terminal ID	ESC M	Select operating value	ESC [ Pc1 ; Pc2 v
Set new line mode	ESC [ = 6 h	Set auto wrap on	ESC [ = 7 h
New line mode off	ESC [ = 6 l	Set auto wrap off	ESC [ = 7 l
Keyboard Control			
Lock keyboard	ESC #	Enable key	ESC [ = Pc h
Unlock keyboard	ESC *	Disable key	ESC [ = Pc l
Set auto repeat on	ESC [ = 8 h	To enable keyclick	ESC >
Set auto repeat off	ESC [ = 8 l	To disable keyclick	ESC <
Display Control			
Turn screen on	ESC n	Normal video	ESC d
Turn screen off	ESC o	Reverse video	ESC b
Set page attr mode	ESC [ = 2 h	132 columns	ESC [ = 3 h
Set line attr mode	ESC [ = 2 l	80 column	ESC [ = 3 l
Load message line	ESC f STR CR	Tab left	ESC I
Load user messages	ESC _ P1 P2 STR CR	Tab right	ESC J
Set tab at cursor	ESC I	Set margin bell on	ESC [ = 4 h
Remove tab at cursor	ESC 2	Set margin bell off	ESC [ = 4 l
Remove all tabs	ESC 3	Set video attribute	ESC G Pc
Reset Function Control			
Reset operngn values	ESC ~Pc		
Protect/Unprotect Control			
To set Protect mode	ESC &	To enable Write Protect	ESC )

To reset Protect mode	ESC *	To disable Write Protect	ESC (
Set half intensity mode	ESC [ = 5 h	Set full intensity mode	ESC [ = 5 l
<b>Page Control</b>			
To set autopage	ESC v	Display previous page	ESC J
To reset autopage	ESC w	Display next page	ESC K
Set page print flip	ESC [ = 15 h	Display page ps	ESC [ 1 ; Ps )
Reset page print flip	ESC [ = 15 l	Set no. of lines/page	ESC Pc
To set smooth scroll	ESC 8	Set line lock	ESC ! 1
To reset smooth scroll	ESC 9	Reset line lock	ESC ! 2
Set scroll region	ESC [ Pc ; Pc r		
<b>Cursor Control</b>			
Set cursor type	ESC . Pc		
Move cursor	ESC = Pc Pc	Move cursor	ESC - Pc Pc Pc
Move cursor	ESC = Pc ~Pc	Move cursor	ESC - Pc Pc ~Pc
Move cursor	ESC [ Pn ; Pn H or f	Reverse line feed	ESC j
Move cursor up Pn lines	ESC [ Pn A	Rqst crsr postn	ESC /
Move cursor down Pn line	ESC [ Pn B	Rqst crsr postn	ESC ?
Move cursor right Pn lines	ESC [ Pn C	Rqst crsr postn	ESC [ 6 n
Move cursor left Pn lines	ESC [ Pn D	Rqst crsr postn	ESC [ ? 6 n
<b>Edit Mode Control</b>			
Set insert mode	ESC q	Reset insert mode	ESC r
Insert blank	ESC Q	Ins Pn blanks	ESC [ Pn @
Insert line	ESC E	Ins Pn lines	ESC [ Pn L
Del character	ESC W	Del Pn chars	ESC [ Pn P
Del unprotected line	ESC R	Del Pn unprt lines	ESC [ Pn M
Set line edit mode	ESC O	Load replcmnt char	ESC e Pc
Replace to end of line	ESC T	Replace line (Pc)	ESC [ Pc K
Del end of line (NL)	ESC t	Replace end of screen	ESC Y
Replace page (Pc)	ESC [ Pc J	Replace page (NL)	ESC y
Del screen (NL)	ESC *	Del screen	ESC +
Del screen	ESC ,	Replace unprt char	ESC ;
Del unprotected (NL)	ESC :		
<b>Send and Print Control</b>			
Send delimiters	ESC x Pc Ps Ps		
Send unprt line	ESC 4	Send unprt page	ESC 5
Send line	ESC 6	Send page	ESC 7
Send unprt msg	ESC S	Send msg	ESC s
Enable ext print	ESC @	Set trans print	ESC '
Disable ext print	ESC A	Set normal print	ESC a
Print unprt frmt page	ESC P	Print page	ESC [ 0 ; Pc i
Print unfrmt page	ESC L	Print delimiter	ESC p Pc
<b>Softky/Char Control</b>			
Program answerback	ESC ^ < string > Ctrl/Y	Execute function key	ESC [ Pn
Program edit key	ESC 0 Ps Pc1 Pc2 Pc3	Program Send (950)	
Down arrow = LF	ESC [ = 9 h	Set special graphics	ESC \$
Down arrow = SYN	ESC [ = 9 l	Reset special graphics	ESC %
Trans control on	ESC [ = 0 h	Trans control off	ESC [ = 0 l
Program function key	ESC   CD [DST STR FS ... ] Ctrl/Y		

A.6.6 DG Mode Escape Sequences

Terminal Control			
Access Falco escapes	ESC z	Send terminal ID	ESC C
Keyboard Control			
Lock keyboard	ESC #	Unlock keyboard	ESC *
Set keyboard feature	ESC e Pc		
Display Control			
Set reverse video	ESC D	Set normal video	ESC E
Cursor Control			
Move cursor	ESC - P1P2P3		
Edit Mode Control			
Del page (SP)	ESC +	Del unprt page (SP)	ESC ;
Del page wprt (SP)	ESC ,	Del unprt page (NL)	ESC :
Del end of page (SP)	ESC Y	Del end of field (SP)	ESC T
Del end of page (NL)	ESC y	Del end of field (NL)	ESC t
Character Set Control			
Invoke GL secondary char set	ESC N	Invoke GL primary char set	ESC O

A.6.7 Abbreviations

The following table outlines the abbreviations used in this addendum.

Legend for Abbreviations			
Abbr	Meaning	Abbr	Meaning
CD	code	STR	string
del	delete	wprt	write protected
prt	protected	unprt	unprotected
NL	nulls	SP	spaces
rd	read	postn	position
crsr	cursor	DST	destination
dbl	double	hgt	height
wdth	width	nrml	normal
scrn	screen	undln	underline
rec	receive	wndw	window
ext	extension	trans	transparent
ins	insert	msg	message
param	parameter	strct	structure
rplcmnt	replacement	char	character

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