Section

3 Warrior Control Panel

The Control Panel sets certain global characteristics of the Warrior system. The Warrior Control Panel is started from its icon in the Warrior program group or via the Windows Start button.

Show Depth as	Refresh Monitors every
 Feet Meters 	Waveforms 500 msec Numerics 1000 msec
Use Language © English © Spanish © Portugese	Show Data Units as © English Edit © Metric © User Defined
Plotting Gridline Setup Printer Setup	Acq. System Settings Line Resistance 50 Ohm Panel Type CPFC
Cable Type	Key Authorization Code # U2937 Add a Code See Codes
Warrior Data Directory	

FIG: 3.1 Warrior Control Panel

3.1 Show Depth as

These option buttons in the upper left set the default depth units for the system. The choices are Feet or Meters.



FIG: 3.2 Depth units

3.2 Use Language

These option buttons set the language of the user interface for the system. Several choices are expected to be available shortly.

- Use Language -		
	O	English
	0	Spanish
	0	Portugese

FIG: 3.3 Languages

3.3 Refresh Monitors every

These text boxes allow control over the rate of screen refresh for numerical and graphical data monitor displays (waveforms). Waveform is set to 500 msec. and numeric is set to 1000 msec. by default. The minimum value currently accepted is 100 msec. Updating at a high rate tends to make the monitors difficult to read and the 1000 msec. refresh rate is a good compromise.

Refresh Monitors every		
Waveforms	500	msec
Numerics	1000	msec

FIG: 3.4 Refresh Monitors every

3.4 Show Data Units as

These buttons allow selection of the default units system. The system allows three sets of data units, namely English, Metric and User Defined. The actual units for each selection may be edited by clicking the Edit command button making selections in the options box shown below. The units for the various types of data and parameters may then be selected for a particular units map, accommodating occasions where a mix of English and Metric units may be required.

Selectable Unit Maps				
Measurement Type	English		Metric	User Defined
Depth	ft	•	ft 💌	ft 💌
Calipers	in	•	in 💌	in 💌
Sonic Velocity	usec/ft	•	usec/ft	usec/ft
Bulk Density	g/cc	•	g/cc 💌	g/cc 💌
Volume	ft3	•	ft3 💌	ft3 💌
Temperature	degF	•	degF 💌	degF 💌
Pressure	psi	•	psi 💌	psi 💌
Speed	ft/min	•	ft/min 💌	ft/min 💌
Weight	lb	•	в	lb 💌
Flow Rate	b/d	•	b/d 💌	b/d 💌
Attenuation/Distance	db/ft	•	db/ft 💌	db/ft
Weight/Distance	lb/ft	•	lb/ft 💌	lb/ft 💌
Perforation Shot Density	Shots/ft	•	Shots/ft 💌	Shots/ft 💌
OK				

FIG: 3.5 Select Unit Maps

Horizontal Gridline Setup	? ×
English Depth Metric Depth Time	
For each output frequency available, enter compression ratio for which a gridline shoul	the highest Id be displayed.
50.0 foot	
10.0 foot 2399	
2.0 foot 479	
1.0 foot 0	
0.5 foot	
0.1 foot	
	Cancel Apply

FIG: 3.6 Horizontal Gridline Setup

Set up compression ratios for gridlines.

3.5 New Authorization Code

This box is used for entering a sixteen digit Hex code for systems that have been installed with a software full time key. Some panels are release with Software time key it is valid for a specific duration of time (60 days). When the Key expires please Contact Scientific Data Systems for valid extension codes.

The second line we recommend type all the information about the Key number, Panel number, software version, and Unit number.



FIG: 3.7 Add a New Key Authorization Code

3.6 See Key Authorization Codes



FIG: 3.8 See Codes

Click on See Codes, you can see all the codes in your Warrior Software

Ke	ey Authorization Codes					
	672C352B5EB36640 ; U2442 PPAA Software ver.7.0 Skid Unit #2 FDD240178F7b736E ; U2366 CPFB TRUCK #1					
	OK					

FIG: 3.9 Key Authorization Codes

3.7 Printer Installation.

3.7.1 Windows XP Printer Installation

To Facilitate this operation a USB Port has been assign on the Interface Panel (rear Plate) and marker "Plotter". It is recommended to use this USB port for your printer connection. Install the printer in windows XP first . The warrior software CD must be in the CD Device. Plug in Belkin USB Printer Adapter cable into any available USB port. Do not remove the Belkin USB printer from the chose USB port Do not plug in the USB printer adapter to different USB port Turn Printer On.

Select setting/Printers and Faxes



FIG: 3.10 Windows XP Control Panel

Select Printers and Faxes



FIG: 3.11 Printers and Faxes Window

Add Printer



FIG: 3.12 Add Printer Wizard

Select Next



FIG: 3.13 Local Printer

Uncheck (Automatically detect and install my Plug and Play printer) and Select Local printer attached to this computer Select Next

dd Printer Wizard
Select a Printer Port Computers communicate with printers through ports.
Select the port you want your printer to use. If the port is not listed, you can create a new port.
Use the following port: USB001 (Virtual printer port for USB)
Note: Most computers use the LPT1: port to communicate with a local printer. The connector for this port should look something like this:
C Create a new port: Type of port: Local Port
< Back Next Cancel

FIG: 3.14 Select a Printer Port

Select USB Port USB0001 to start.

Add Printer Wizard			
Install Printer Software The manufacturer and model of	determine which printer software to use.		
Select the manufacturer and disk, click Have Disk. If you compatible printer software.	d model of your printer. If your printer came with an installation ar printer is not listed, consult your printer documentation for		
Manufacturer Oki Okidata Olivetti Panasonic Printeesiu	Printers Printrex 810M Printrex 820G Printrex 820DL/G Printrex 840DL/G		
This driver is not digitally signed! Tell me why driver signing is important			
	< Back Next > Cancel		

FIG: 3.15 Install Driver.

Select Manufacturer Printrex and Model Printrex 840DL/G the driver is in the CD select "Have Disk"



FIG: 3.16 Install from Disk

Select the CD Driver in this case is D: and "Browse"



FIG: 3.17 Printrex Drives options.

Select the Driver PRINTREX WIN2K, this driver is to install in WIN2K and windows XP.



FIG: 3.18 Select the drive

Run the Drive

Add Printer Wizard	
Install Printer Software The manufacturer and model determine whi	ich printer software to use.
Select the manufacturer and model of yo disk, click Have Disk. If your printer is no compatible printer software.	ur printer. If your printer came with an installation t listed, consult your printer documentation for
Printers	
Printrex 810M Printrex 820G	
Printrex 820DL/G	
Printrex 840DL/G	•
This driver is not digitally signed! <u>Tell me why driver signing is important</u>	Windows Update Have Disk
	< Back Next > Cancel

FIG: 3.19 Install the Printer Drive

Select 840DL/G or the model is connecting to the PC.

Add Printer Wizard	
Use Existing Driver A driver is already installed for this printer. You can use or replace the existing driver.	Ì
Printrex 840DL/G	
Do you want to keep the existing driver or use the new one? Keep existing driver (recommended) Replace existing driver	
< Back Next >	Cancel

FIG: 3.20 Set the driver

Select replace existing driver

Add Printer Wizard
Name Your Printer You must assign a name to this printer.
Type a name for this printer. Because some programs do not support printer and server name combinations of more than 31 characters, it is best to keep the name as short as possible.
Printer name: Printrex 840DL/G
Do you want to use this printer as the default printer?
C No
< Back Next >>> Cancel

FIG: 3.21 Printer Name

Type the name or let the default Printer.

Add Printer Wizard			
Printer Sharing You can share this printer with other network users.			
If you want to share this printer, you must provide a share name. You can use the suggested name or type a new one. The share name will be visible to other network users.			
Do not share this printer			
O Share name:			
< Back Next > Ca	incel		

FIG: 3.22 Printer sharing

Select do not Share this printer

Add Printer Wizard		
Print Test Page To confirm that the printer is installed prope	rly, you can print a test page.	I
Do you want to print a test page?		
Yes		
C No		
	< Back Next >	Cancel



Select Yes



FIG: 3.24 Continuing Installation.



FIG: 3.25 Completing the Add Printer

Select Finish.



FIG: 3.26 Test Page

The Printer Test Page must appear. At this point the Printer is installed in windows XP and then select OK.



FIG: 3.27 Printers and Faxes

Check if the Printrex 840DL/G is set as default



VIDEO: 3.1 Printer Windows installation

3.7.2 Warrior Printer Installation

There are two different methods that Warrior uses to print. If you want a hardcopy of your log while you are logging, then you must print to a Direct printer. For good quality color prints, or to print to a printer that is not in the list of Direct printers, select the option Enable printing through Windows printer. If you have that button checked, then when you print from Warrior, you will see either (Direct) or (Windows) label for each printer in the list of printers to print to.

Selecting **Help** will bring up useful information about the settings for various printers, supported by Warrior.

3.7.2.1 Direct to Printer

Most printers, supported for Direct printing by Warrior, also have Windows drivers, so when a Direct Printer is installed; the Windows driver should be installed as well if there is one. Select a printer name, as would be done during a printer selection in Windows programs. Warrior can use the port properties you set up for that printer through the standard Windows printer setup, so the port name doesn't have to be specified in two different places. When a Windows name is specified, then the Port Name doesn't need to be changed in Warrior, as it will use the same port that is set up through your standard Windows printer setup.

The Port Driver should be set to port32 for all printers except the Gulton 250 and 275, which use the cenpoll32 driver, as they don't have any corresponding Windows drivers. When using Direct printing, settings, such as media type, plot speed, etc., are all controlled by Warrior directly, not by the Windows printer driver.

Recommended printers for color printing Direct:

Epson Stylus Color 900 Epson Stylus Color 1520 Epson Stylus Color 3000 Epson Stylus Color C60, C80, C82, C84 HP DesignJet 750C, 1050C

Recommended printers for monochrome printing Direct: Printrex 840 DL/G (www.printrex.com) ISys V8.5e (www.isys-group.com)

3.7.2.2 Printing through Windows Printing

Whilst logging, it is possible to print to a Windows printer. However, printing hardcopy of your log is not possible. SDS cannot guarantee that all printers will work properly for making prints from Warrior, therefore a list of tested printers, that are able to make continuous prints, is available. The Windows printing options are settings that may change from one printer to the next. However, most of the settings are set by SDS, so they should not be changed. Some printers place a large gap at the start of a print, so a print gap is added during start of print, so the first fan fold can be skipped and a distance can be added to get the <fold here> to come out in the right place.

When using Windows printing, settings, such as media type, plot speed, etc., are all controlled by the Windows printer driver.

Recommended printers for color printing through Windows:

Epson Stylus Photo 825 Epson Stylus Photo 890 Epson Stylus Photo 1280 HP designjet 5500 HP deskjet 5550 HP deskjet 6540 Isys Iterra Elite color LED * Isys Iterra Lite color thermal inkjet * Recommended printers for monochrome printing through Windows: Printrex 820DL/G, 840DL/G ISys V8.5e

(* Denotes printer can do multiple copies)

🖼 Warrior System Control Panel	×
Show Depth as	Refresh Monitors every
 Feet Meters 	Waveforms 500 msec Numeric 1000 msec
Use Language	Show Data Units as
 English Spanish Portugese 	Edit G User Defined
Plotting	Acq. System Settings
Gridline Setup Printer Setup	Line Resistance 50 Ohm Panel Type CPDB 💌
Cable Type	Key Authorization Code # U2937
	Add a Code See Codes
Warrior Data Directory	Browse
Setup Realtime Backup	ОК

FIG: 3.28 Control Panel Printer Setup

Select Printer Setup

💀 Installed Printers	×
Direct to Printer	Windows Printing
Printer Names Warrior printer name	Enable printing through Windows printer
Default Name of this printer as seen by Windows printing. Required if not printing to file. Properties	Windows printing options for above printer Have printer do orientation Drigin for printing Dan to start of mint (inches)
Port	Windows page length is > 15"
Driver	Darkness for horizontal grid lines 1 = Darkness for vertical grid lines 1 = Left margin (inches) Right margin (inches)
Install Remove Config	Find This Printer on USB port
Note: To print while logging you must print to one of the Direct printers	Printing Help Save Changes Close

FIG: 3.29 Installed Printers

Some of the Windows printers may require a value to be entered for the "Gap to start of print". Having a non-zero value will cause the printer to advance the paper that distance, so the first fan fold page may be blank in order to position the print head to the proper place.

Select the Install button for a list of printers, supported by Warrior,

for printing whilst logging. When this box is checked, either a (Direct) or (Windows) label for each available printer is shown when printing from Warrior. For fan fold printing, set the printer page size to twice the size of one fan fold page.

🔛 Install Printer		X
Printer		
		μţ
		1
Install	Cancel	
Install	Cancel	

FIG: 3.30 Install Printer

Open the Drop- down box

🙀 Install Printer	×
Printer	
	-
PDF File	
TIFF File	
Veritas	
VeritasE	
Printrex	▼

FIG: 3.31 Install Printer

Select Printrex



FIG: 3.32 Install Printer

Click over Install

Printrex 820 Plotte	r Config	uration	X
Media	Paper		•
Paper speed	Full		•
Film speed	Half		•
Sensitivity	Low		•
Width	8.375		
Height	12.5		
	🔽 Top	o of Form	
Top margin (inches)		0.1	
TOF marker offset (in	ches)	0.625	
TOF marker thicknes	s (inches) 0.25	
Save		Close	

FIG: 3.33 Printrex 820/840 Plotter Configuration

For fan fold printing, set the printer page size to twice the size of one fan fold page

Select S	Save
----------	------

Installed Printers	<u>×</u>
Direct to Printer	Windows Printing
Printer Names Warrior printer name	Enable printing through Windows printer
Printrex Default Name of this printer as seen by Windows printing. Required if not printing to file.	Windows printing options for above printer
Printrex 840DL/G	Origin for printing Gap to start of print (inches)
Port	Windows page length is > 15" Length for headings, pictures, etc. (inches)
Driver port32 Use with standard printer ports & SDS Buffered Plotter Cards & USB parallel ports	Darkness for horizontal grid lines 1 + Darkness for vertical grid lines 1 +
	Find This Printer on USB port
Install Remove Config	Show network printers in hardcopy Windows printer list
Note: To print while logging you must print to one of the Direct printers	Printing Help Save Changes Close

FIG: 3.34 Installed Printers

Select on the Drop-down the Printer Model Printrex 840DL/G

ect to Printer	Windows Printing
Printer Names	Enable printing through Windows printer
Printrex C Default Name of this printer as seen by Windows printing. Required if not printing to file.	Windows printing options for above printer Have printer do orientation
Printrex 840DL/G Properties	Grigin for printing
Port Name USB001 Use with standard printer ports & SDS Buffered	Windows page length is > 15" Length for headings, pictures, etc. (inches) Darkness for horizontal grid lines
Driver port32 Plotter Cards & USB parallel ports	Darkness for vertical grid lines
	Find This Printer on USB port
Install Remove Config	Show network printers in hardcopy Windows printer list
To print while logging you must print to one of the Direct printers.	

FIG: 3.35 Installed Printers

Select Save Changes



VIDEO: 3.2 Warrior Printrex Install

3.7.2.3 New Printers List

Printing help and Printers32.ini contain details of printers tested with Warrior. However, printers are constantly changing, so check the following link <u>http://www.warriorsystem.com/Support Printers List.htm</u>

COLOR PRINTING NOTICE: You will always get better color prints printing through a Windows color printer. None of the direct color printers were designed for printing continuous log prints. Unless you require color printing while logging, we recommend you use one of the Windows printers and not use Direct printing to a color printer.

Source Resolution: If it takes a long time to print to your Windows printer, try setting this to a lower value. The default is 1. A lower value may degrade the print quality, so test with your printer to find the optimal setting. You may be able to use a higher Windows printer resolution (600 or 720 dpi) and use a Source Resolution of 1/2 or 1/3 and still get a quality print.

3.7.3 Finding Printer

We recommend connect the Printer/Plotter in the same USB port but if you do not know which port is , you can find the USB port where the printer is connected .

Installed Printers	x
Direct to Printer	Windows Printing
Printer Names Warrior printer name	Enable printing through Windows printer
Printrex C Default Name of this printer as seen by Windows printing. Required if not printing to file.	Windows printing options for above printer Have printer do orientation
Printrex 840DL/G Properties	Origin for printing Gap to start of print (inches)
Port	Windows page length is > 15"
Name USB001	Length for headings, pictures, etc. (inches)
Driver port32 Use with standard printer ports & SDS Buffered Plotter Cards & USB parallel ports	Darkness for horizontal grid lines
	Darkness for vertical grid lines
	Find This Printer on USB port
Install Remove Config	Show network printers in hardcopy Windows printer list
Note: To print while logging you must print to one of the Direct printers	Printing Help Save Changes Close

FIG: 3.36 Installed Printers

Check Enable printing through windows printer.

Printer Na	mes		Enable printing through Windows printer
	Warrior printer name		
Printrex	V	🔽 Default	Printrex 840DL/G
	Name of this printer as seen by Windows printing. Bequired if not printing to file		Have printer do orientation
Printrex 8	4001/6	Properties	Origin for printing
j			Gap to start of print (inches)
Port			Windows page length is > 15"
Name [USB001		Length for headings, pictures, etc. (inches)
Driver [port32 Use with standard printer ports & S	DS Buffered	Darkness for horizontal grid lines
1.			Darkness for vertical grid lines
			Find This Printer on USB port
	Install Remove	Config	Show network printers in hardcopy Windows printer list

FIG: 3.37 Installed Printers

Select on the Drop-down the Printer Model Printrex 840DL/G

Printer Names	
Warrior printer name	Enable printing through windows printer
	Printrex 840DL/G
Printrex V Derault	└─ Windows printing options for above printer
Name of this printer as seen by Windows printing. Bequired if not printing to file	Have printer do orientation
Distance 04001/C	Origin for printing
Prindex 8400L/G	Gap to start of print (inches) 0.0
Port	Windows page length is > 15"
Name USB001	Length for headings, pictures, etc. (inches)
Driver port32 Use with standard printer ports & SDS Buffered	Darkness for horizontal grid lines
	Darkness for vertical grid lines
	Find This Printer on USB po
Install Remove Config	Show network printers in hardcopy Windows printer list

FIG: 3.38 Installed Printers

Select find this Printer on USB port.

ľ

ind Print	er 🔀		
?	This will send a test print to Printrex 840DL/G. Be sure to turn off all other printers. Continue with test?		
	Yes No		

FIG: 3.39 Find Printer

Select Yes



FIG: 3.40 Testing Printer

If the test print comet out select Yes It means the printer is connect to USB002



FIG: 3.41 Printer Found

Select OK

Installed Printers	<u>></u>
Direct to Printer	Windows Printing
Printer Names Warrior printer name	Enable printing through Windows printer Printrex 840DL/G
Name of this printer as seen by Windows printing. Required if not printing to file.	Windows printing options for above printer Have printer do orientation
Properties Properties	Origin for printing 1 Gap to start of print (inches) 0.0
Port	Windows page length is > 15"
Name	Length for headings, pictures, etc. (inches)
Driver Use with standard printer ports & SDS Buffered Plotter Cards & USB parallel ports	Darkness for horizontal grid lines
	Darkness for vertical grid lines
	Find This Printer on USB port
Install Remove Config	Show network printers in hardcopy Windows printer list
Note: To print while logging you must print to one of the Direct printers	Printing Help Save Changes Close

FIG: 3.42 Installed Printers

Select on the Drop-down the Printer Model Printrex 840DL/G

Installed Printers	
Direct to Printer	Windows Printing
Printer Names Warrior printer name	Enable printing through Windows printer
Printrex Pri	Windows printing options for above printer Have printer
Printrex 840DL/G Properties	Origin for printing 1
Port	Windows page length is > 15"
Driver Use with standard printer ports & SDS Buffered Plotter Cards & USB parallel ports	Darkness for horizontal grid lines 1 Darkness for vertical grid lines 1
	Find This Printer on USB port
Install Remove Config	Show network printers in hardcopy Windows printer list
ote: To print while logging you must print to one of the Direct printers	Printing Help Save Changes Close

FIG: 3.43 Installed Printers

Select on the Drop-down Printrex

Warrior printer name	J Enable printing through Windows printer
Printrex 🔽 🔽 Default	Printrex 840DL/G
Name of this printer as seen by Windows printing. Required if not printing to file.	Windows printing options for above printer Have printer do orientation
Printrex 840DL/G Properties	Gap to state of print (inches)
Port-	Windows page length is > 15"
Driver port32 Use with standard printer ports & SDS Buffered Plotter Cards & USB parallel ports	Darkness for horizontal grid lines 1 Darkness for vertical grid lines 1
	Find This Printer on USB po
Install Remove Config	Show network printers in hardcopy Windows printer list

FIG: 3.44 Installed Printers

Uncheck Enable printing through Windows printer and select Save Changes



VIDEO: 3.3 Find Printers

3.7.4 Printing to PDF

Warrior supports direct printing to PDF files through its own driver. Before creating a PDF output, determine what the customer intends to do with the file and configure the PDF options accordingly. If it is intended only to view the PDF on the screen, then the driver should be set to Continuous Viewable Image and Color. If the customer intends to print the PDF, then it should be set to Continuous Printable Image and Color or Monochrome, depending on the printer being used. In addition, it may be important to set the page size to match the page size of the customer's printer; otherwise gaps between pages can appear.

Furthermore, there is a trade off between file size and quality. The higher the dpi setting, the better the quality normally, but the file size is larger. Some experimentation may be required with the customer to produce optimal results. This is also true for the selected compression mode. For most situations, FLATE compression works well.

3.7.5 Printing to TIFF

Warrior also supports direct printing to TIFF files through its own driver. Again, determine what the file is intended for and configure the driver accordingly.

Note that the driver supports TIFF single continuous pages of longer than 90 inches. However, many TIFF applications (including Warrior fax) do not support this, so before increasing the maximum page length be sure that the customer can read such files.

3.7.6 Cable Type

Select the cable type according with logging unit cable if the cable it is not available select the close one, if help to select the values to equalized the signal on the cable.

🙀 Warrior System Control Panel	X	
Show Depth as	Refresh Monitors every	
 Feet Meters 	Waveforms 500 msec Numerics 1000 msec	
Use Language	Show Data Units as	
 English Spanish Portugese 	 English Edit Metric User Defined 	
Plotting	Acq. System Settings	
Gridline Setup Printer Setup	Line Resistance 50 Ohm Panel Type CPFC 💌	
Cable Type	Key Authorization Code #U2937	
IK22PTZ (14000-17999 ft)	Add a Code See Codes	
\ MP35 (23000-28000 ft) 3221ZTL (23600-30000 ft) C:\Warrior\Data\	Browse	
Setup Realtime Backup	ОК	

FIG: 3.45 Cable Type

3.7.7 Set Up Real Time Backup

The software has the options to storage the backup data in other directory or hard disk at the same time it storages the data in the Warrior\Data.

The software has three options:

3.7.7.1 No Real Time Backup

It just storage the data under Warrior directory or the path directory you select, this option is select by default.

3.7.7.2 Offer to Make Copy after each Pass.

At the end of each pass offer to make copy and storage in the Real Time Backup directory path you select.

3.7.7.3 Automatically make copy after each pass

Each pass will be automatically storage in the Real Time Backup directory path select by you.

🗃 Warrior System Control Panel	x				
Show Depth as	Refresh Monitors every				
 Feet Meters 	Waveforms 500 msec Numerics 1000 msec				
Use Language	Show Data Units as				
 English Spanish Portugese 	 English Edit Metric User Defined 				
Plotting	Acq. System Settings				
Gridline Setup Printer Setup	Line Resistance 50 Ohm Panel Type CPFC 💌				
Cable Type	Key Authorization Code # U2937				
	Add a Code See Codes				
Warrior Data Directory					
C:\Warrior\Data\	Browse				
Setup Realtime Backup	ОК				
Setup Realtime Log Backup	x				
Store realtime backups to:	Browse				
No realtime backup					
Offer to make copy after each pass					
C Automatically make copy after each pass	S OK				

FIG: 3.46 Setup Real time Backup

Setup Realtime Log Backup	×
Store realtime backups to:	Browse
 No realtime backup Offer to make copy after each pass Automatically make copy after each pass 	OK
Browse for Folder Browse for Realtime Backup Directory	?×
 Desktop My Documents My Computer My Network Places Recycle Bin 	•
OK Cano	el

FIG: 3.47 Set Real time Backup Directory