Section 15 – Physical Diagnostic Utility

FEATURES

This utility allows the user to see the physical inputs and outputs associated with a logical or physical control panel, input mnemonic, output mnemonic, and level mnemonic. It also provides the user the opportunity to view outputs associated with a logical or physical input.

This utility can be used in conjunction with the Physical Remapping Utility. The user must be logged into the network for this utility to function.

Note: The Physical Diagnostic Utility does not support remote PC operation.

This is an MDI application. An MDI application has a window within which multiple MDI child windows, which are frame windows themselves, can be opened, each containing a separate document (or a log file for this utility).

MENUS

File

New - Allows the user to create a new Diagnostic Log File.

Open –Allows the user to open an existing Log File.

Close – Closes the frame window that has the keyboard focus. If only one child frame window is open, this will close that child window.

Save - Saves the log file that is open in the child frame window, which has the keyboard focus.

Save As – Saves the log file to a different filename.

Print – Prints the current log file.

Print Setup - Sets up the printer.

Recent Files - Lists the last four log files being created or opened.

Exit

View

Toolbar – Allows the user to display or hide the toolbar.

Status Bar – Allows the user to display or hide the status bar.

Input Mapping - Provides the user with the input mapping table.

Input/Output Exception Table - Provides the user with the Input or Output Exception tables.

Options

Manual – Allows the user to update the log file manually.

Automatically – Allows the user to update the log file automatically.

Window

Cascade - Cascades all non-minimized MDI child windows.

Tile - Tiles all non-minimized MDI child windows.

Help

About PhyDiag

Displays the About dialog box.

FUNCTIONALITY

Figure 15–1 shows the main MDI frame window that the user sees when entering the application.



Figure 15–1.

File > New

Selecting this item brings up the following dialog:

MPKID	Panel	
0002673	GVG1	
0000266d	GVG2	
0900117d	cp-3000	
UUCIADAU	CP_3830	

Figure 15–2.

Select a control panel (MPK device) by clicking on one row of the grid table. The row will be highlighted and the OK button will be enabled. When OK is selected, the following dialog will be displayed:

ew Log File Name			×
Log File Name		Do not log to fi	le
C:\Jupiter\Logdata	VPDU-266D_101	4_ 112527.LOG	
		0]
<u>O</u> K	Change	Cancel	

This dialog displays a filename that consists of the name of the control panel the user has chosen and the current time and date. Select the **Change** button to change the filename. If OK is selected, a MDI child frame window containing a empty log document will be displayed:

15-3.

Control Panel			
MPK ID: 26	6D Panel	; GVG2	
Level Set			
Output	Level	Input	
ASSIGN1	11010	VCD1	
Events:	AUDIO	VIRI	
Events: Physical	AUDIO	ut Phy. Output	÷
Events: Physical Log. Switcher Log	g. Level Phy. Inp	out Phy. Output	
Events: Physical Log. Switcher Log	J. Level Phy. Inp	out Phy. Output	
Events: Physical	J. Level Phy. Inp	out Phy. Output	

The title bar of this MDI child window shows the log file name, and the first two fields of the dialog show the control panel the user has chosen. To display the associated physical information, select an output, input and level mnemonic. **Once these fields are filled in**, select **UPDATE** to display the "Physical" table.

The Physical table displays the switcher, logical level name, physical inputs and outputs associated with the logical information. The user may select to update the table and log manually or automatically by selecting the **Manual/Automatic** toggle in the **Options** menu. Note that multiple lines of information may be displayed for each event if the currently selected input/ output/level uses path–finding.

The contents of this scrolling display can be saved as a CSV (comma delimited) file by selecting the File > Save menu option.

Selecting By Output

When the "Output" field is selected from the "Level Set" table, the "Output Select" dialog is displayed:

	Category	Entry	Mnemonic	Output
	ASN	1	ASN1	ASSIGN1
	ASN	2	ASN2	ASSIGN2
	ASN	3	ASN3	ASSIGN3
	ASN	4	ASN4	ASSIGN4
	AUX	5	005	005
	AUX	6	006	006
	AUX	7	007	007
(AUX	8	008	008
	AUX	9	009	009
0	AUX	10	010	010

Figure 15–5.

The title bar of this window displays the Control Panel Output Set name as well as the logical control panel name.

The table displays the output set for the selected control panel. To select an output, click on any row in the table, and click "OK." The output mnemonic is displayed in the **output** field of the **Level Set** table in the Physical Diagnostic child window.

Selecting By Level

When the "Level" field is selected from the "Level Set" table, the "Level Select" dialog box is displayed:

	Mnemonic	Switcher	Name	
1	VID	GVG	VIDEO	
2	AUD	GVG	AUDIO	
3	VIDE	DEFAULT	VIDEO	
4	LEFT	DEFAULT	LEFT	
5	RIGH	DEFAULT	RIGHT	
6	TIME	DEFAULT	T/C	

Figure 15–6.

The title bar of this window displays the Control Panel Level Set name as well as the logical control panel name.

The table displays the level set for the selected control panel. To select a logical level, click on any row in the table, then click "OK." The level mnemonic is displayed in the **Level** field of the **Level Set** table in the Physical Diagnostic child window.

NOTE: If the selected output and level set have an input associated with it, then the input mnemonic will be displayed in the **input** field of the **Level Set** table. If no input is associated with the selected output and level, an INVALID red color mark will be displayed in the input field of the Level Set table.

Physical Data Update

After selecting the panel mnemonics, the **UPDATE** button of the MDI child window will be enabled to allow the user to update the physical information. All events will display in the window with a scroll bar, if necessary. If "path–finding" is in use, there will be multiple lines of data for an event. The data will be written to a comma delimited CSV log file, as displayed in the title bar of the child window. The log file will have the capability of being printed to the currently selected Windows printer. The user may select to update the table and log manually or automatically by selecting the **Manual/Automatic** toggle in the **Options** menu.

File > Open

This menu allows the user to view and print an existing log file. The following **Open** dialog is displayed to allow the user to choose an existing log file:

Open			? ×
Look <u>i</u> n:	🔄 Logdata	- 🗈 🖻	
 PDU-2661 PDU-2661 PDU-2661 PDU-2661 PDU-2661 PDU-2661 PDU-2661 PDU-2661 	D_0910_181213.LOG D_0911_095228.LOG D_0918_133151.LOG D_0918_143617.LOG D_1006_084139.LOG D_1006_084139.LOG D_1014_112527.LOG B_0910_180324.LOG	 PDU-2673_0911_0950. PDU-2673_0911_0956. PDU-2673_0911_0958. PDU-2673_0911_10030. PDU-2673_0912_1628. PDU-2673_0912_1634. PDU-2673_0918_1057. 	32.LOG = 1 43.LOG = 1 36.LOG = 1 33.LOG = 1 35.LOG = 1 25.LOG = 1 11.LOG = 1
Files of type:		T.LOG	
r nes or type.	Logine (109)		Cancel

After the user selects a file, a MDI child window as in File > New containing the information of all the events in the log file will be displayed.

View Menu

The View menu contains Input Mapping, Input Exception Table, and Output Exception Table items.

INPUT MAPPING

Input Mapping allows the user to view the mapping of Logical Outputs; Physical Outputs can also be viewed by selecting a logical switcher, logical level, and an input, as seen in the following window:

Switcher	Level	Log. Input	Phy. Input	
FAULT	VIDEO	020	20	
but Using th	ie Innut			
Switcher	l evel	Log Output	Phy Output	
ownener	Lever	Log. output		
			<u> </u>	

Inputs are selected either by physical number, or logical name. **Once all the fields are filled in**, the program will then display a list of outputs the input is currently switched to. The information in this table can be printed to the currently selected Windows printer.

EXCEPTION TABLES

The Input and Output Exception Tables display the current physical input and output remappings:

	Switcher	Level	Orig. Input	New Input
1	DEFAULT	VIDEO	1	21
2	DEFAULT	VIDEO	2	22
3	DEFAULT	VIDEO	3	23
4	DEFAULT	VIDEO	4	24
5	DEFAULT	VIDEO	5	25
6	DEFAULT	VIDEO	6	26
7	DEFAULT	VIDEO	7	27
0		VIDEA	0	20

Figure 15–9.

These Input or Output exception tables are entered from the Physical Remapping Utility. They can be printed to the currently selected Windows printer.