



UFD-P710
DIGITAL ULTRASONIC FLAW DETECTOR
(ADVANCED TYPE)
SOFTWARE OPERATATION MANUAL

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VIDEO OF PRODUCTS.



To respected users ,

Thank you for purchasing our product so that we have an opportunity to provide our services for you. We have made every effort to satisfy your requirements and assure you can enjoy our quality product with pleasure.

Please read the operating manual carefully prior to use of the board in order to operate correctly and effectively. Meanwhile, you can obtain our service at any time through the technical support and service within the manual. Through the appendix, you can also learn more about the use of the instrument, which is conducive to the appropriate use of this product.

We sincerely hope that the operating manual provides you with great help.

We thank again for use of the product and we hope to have more opportunities to provide our services for you.

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Contents

1	Brief Introduction	1
2	Installation	1
3	Main Operation Page.....	1
3.1	General Operation Page.....	1
3.2	Menu Bar	2
3.3	File Path Zone	2
3.4	Viewlist Zone	3
4	Viewer	3
4.1	Interface of the Viewer.....	3
4.2	Main Menu Bar	4
4.3	Viewlist Zone	5
4.4	Prefs Zone	6
4.5	Waveform and Readout Zone.....	6
4.6	Viewer Zone.....	6
5	Other Parts	7
5.1	Exporting Image.....	7
5.2	Export Report.....	8
5.3	Export Viewlist	9

1 Brief Introduction

This app is used with the UFD-P710 flaw detector for displaying the files collected from the UFD-P710 on a PC screen. It's an user-friendly and convenient tool.

2 Installation

This app is free of installation. The user just needs to unzip the “UFD-P710-EN.rar”, and runs the “UFD-P710-EN.exe” to manage data.(see Figure 2-1)

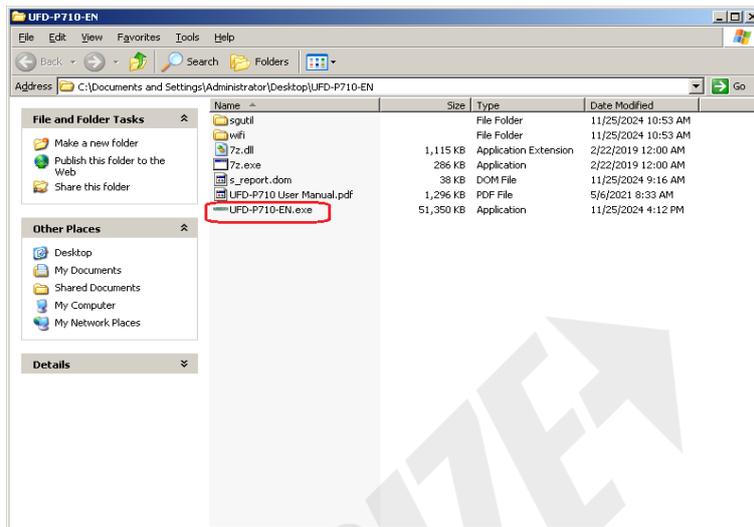


Figure 2-1 the UFD-P710 file

NOTE: Please unzip the “UFD-P710-EN.rar” file again when you need to use the app on another PC. Do not directly copy the “UFD-P710-EN.exe” to another PC, which may cause malfunctions.

3 Main Operation Page

3.1 General Operation Page

The general operation page is shown in Figure 3-1.

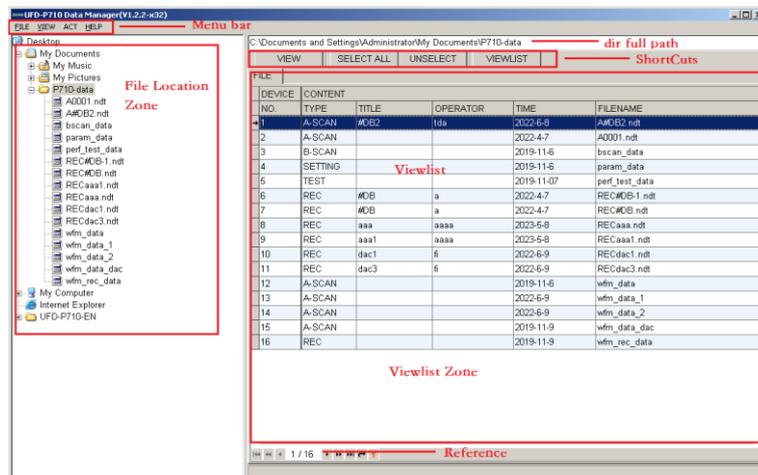


Figure 3-1 the general operation page

3.2 Menu Bar

The menu bar is shown in Figure 3-2.



Figure 3-2 the menu bar

The illustration of the items on the menu bar:

a) **FILE**

LOAD: Loads the selected file.

EXIT: Shuts down the app.

b) **VIEW**

VIEW: Views the content of the selected file.

c) **ACT**

SELECT ALL: Selects all the files.

UNSELECT: Unselects the selected files.

EXPORT->VIEWLIST: Exports the file list info to an Excel form.

3.3 File Path Zone

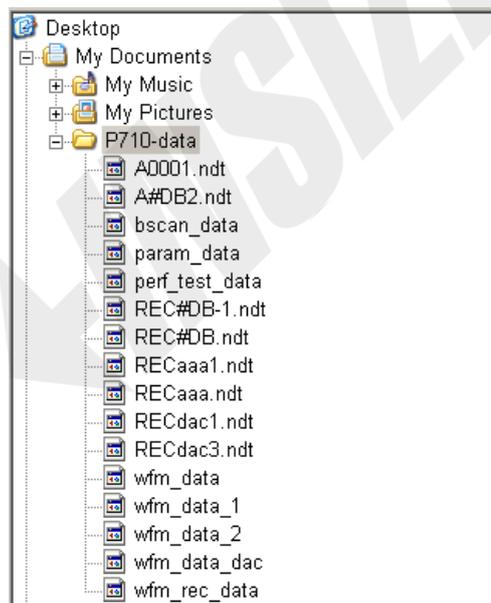


Figure 3-3 the file path

File Path: saves the files under this path (see Figure 3-3).

3.4 Viewlist Zone

FILE					
NO.	TYPE	TITLE	OPERATOR	TIME	FILENAME
1	A-SCAN	#DB2	tda	2022-6-8	A#DB2.ndt
2	A-SCAN			2022-4-7	A0001.ndt
3	B-SCAN			2019-11-6	bscan_data
4	SETTING			2019-11-6	param_data
5	TEST			2019-11-07	perf_test_data
6	REC	#DB	a	2022-4-7	REC#DB-1.ndt
7	REC	#DB	a	2022-4-7	REC#DB.ndt
8	REC	aaa	aaaa	2023-5-8	RECaaa.ndt
9	REC	aaa1	aaaa	2023-5-8	RECaaa1.ndt
10	REC	dac1	fi	2022-6-9	RECdac1.ndt
11	REC	dac3	fi	2022-6-9	RECdac3.ndt
12	A-SCAN			2019-11-6	wfm_data
13	A-SCAN			2022-6-9	wfm_data_1
14	A-SCAN			2022-6-9	wfm_data_2
15	A-SCAN			2019-11-9	wfm_data_dac
16	REC			2019-11-9	wfm_rec_data

Viewlist Zone

Reference

Figure 3-4 the Viewlist

The illustration of the items on the viewlist zone (see Figure 3-4):

Viewlist: The list of files under the current path supporting viewing or exporting.

VIEW: Views the content of the selected file.

SELECT ALL: Selects all the files under the current path.

UNSELECT: Unselects the selected files.

VIEWLIST: Exports the list of files into an Excel form.

4 Viewer

4.1 Interface of the Viewer

Three ways to load files:

- a) Click [FILE]> [LOAD] to choose the desired file on the pop-up box;
- b) Double-click the file in the viewlist zone to load it (see Figure4-1);
- c) Select file in the viewlist zone and click [VIEW] to load it.

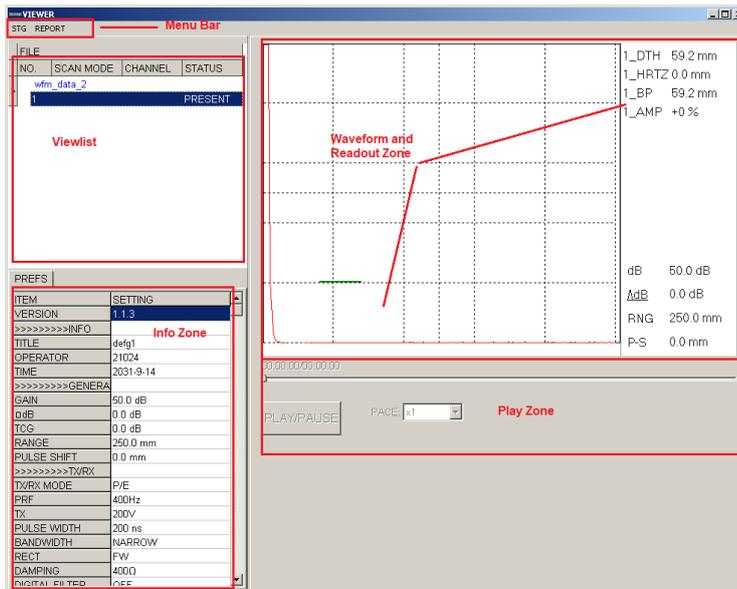


Figure 4-1 the viewer

4.2 Main Menu Bar



Figure 4-2 the main menu bar

The illustration of the items on the main menu bar (see Figure 4-2):

a) STG

G-COLORRED: Paints the waveform within the gate with its color (see Figure 4-3).

FILLED: Fills the hollow waveform (see Figure 4-4/Figure 4-5).

b) REPORT

EXPORT WORD: Exports the current data and images into a WORD file.

EXPORT IMAGE: Saves the current waveforms as an image file.

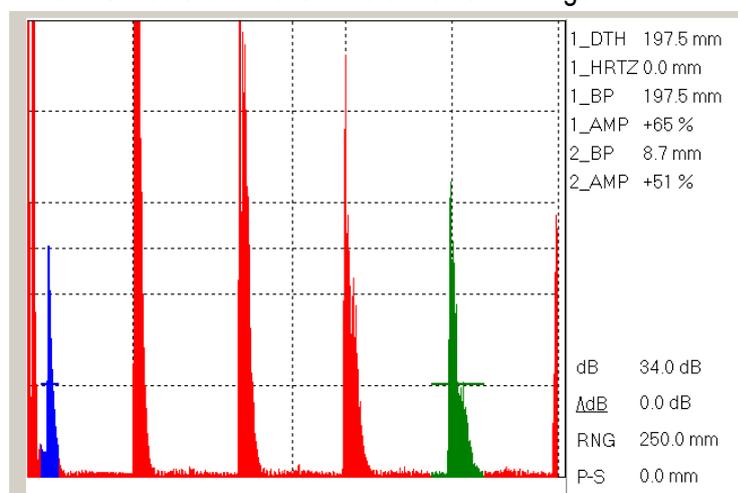


Figure 4-3 the colored waveform

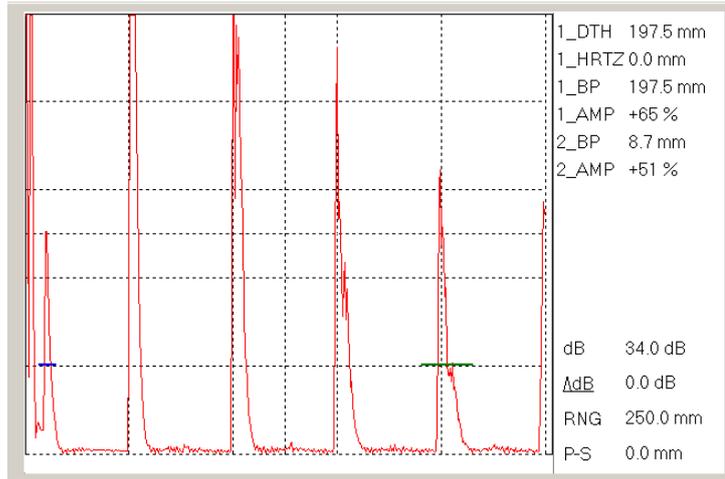


Figure 4-4 the hollow waveform

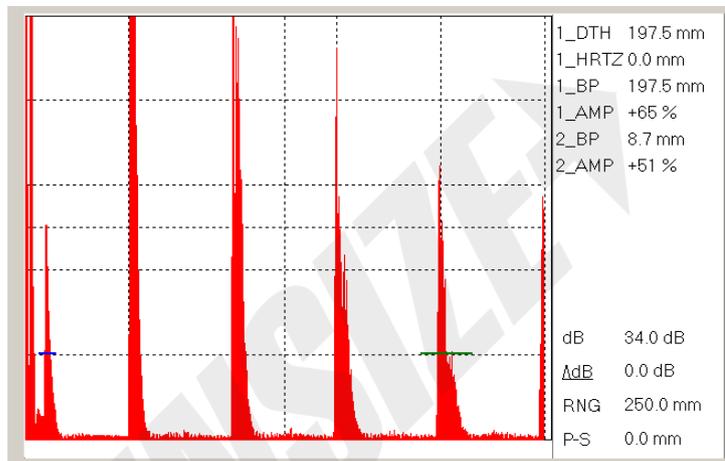


Figure 4-5 the solid waveform

4.3 Viewlist Zone

FILE			
NO.	SCAN MODE	CHANNEL	STATUS
1	param_data_2		
2	param_data_3		
3	wfm_data_1		PRESENT
4	wfm_data_2		

Figure 4-6 the viewlist zone

Viewlist: Displays the list of loaded files in history (see Figure 4-6). Files can be switched and reloaded with the image and data updated in the display Zone.

4.4 Prefs Zone

ITEM	SETTING
VERSION	1.1.3
>>>>>>>>>INFO	
TITLE	
OPERATOR	
TIME	2031-9-14
>>>>>>>>>GENERA	
GAIN	50.0 dB
□dB	0.0 dB
TCG	0.0 dB
RANGE	250.0 mm
PULSE SHIFT	0.0 mm
>>>>>>>>>TX/RX	
TX/RX MODE	P/E
PRF	400Hz
TX	200V
PULSE WIDTH	200 ns
BANDWIDTH	NARROW
RECT	FW
DAMPING	400Ω
DIGITAL FILTER	OFF

Figure 4-7 the Prefs zone

Prefs Zone: Displays the parameters and information related to the work (see Figure 4-7).

4.5 Waveform and Readout Zone

The waveform and readout zone is shown in Figure 4-8

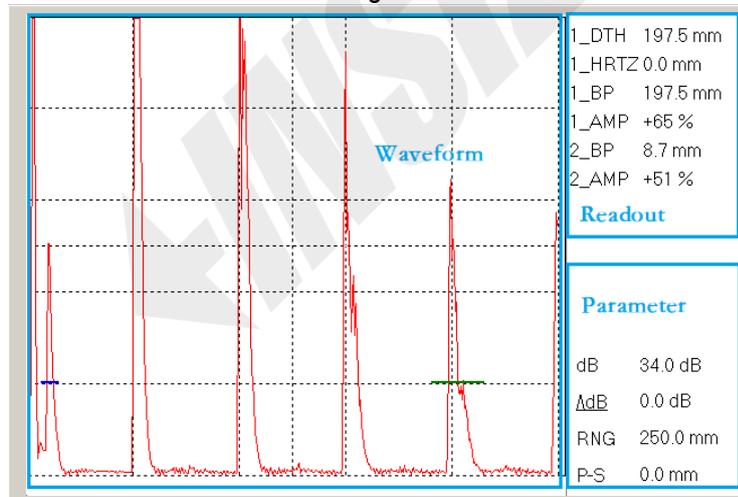


Figure 4-8 the waveform and readout zone

NOTE: The left screen is for waveform displaying. The upper right screen is the readout zone, and the lower right is for viewing general parameters.

4.6 Viewer Zone

The viewer zone is shown in Figure 4-9 and the state of the viewer is displayed in Figure 4-10 and Figure 4-11.

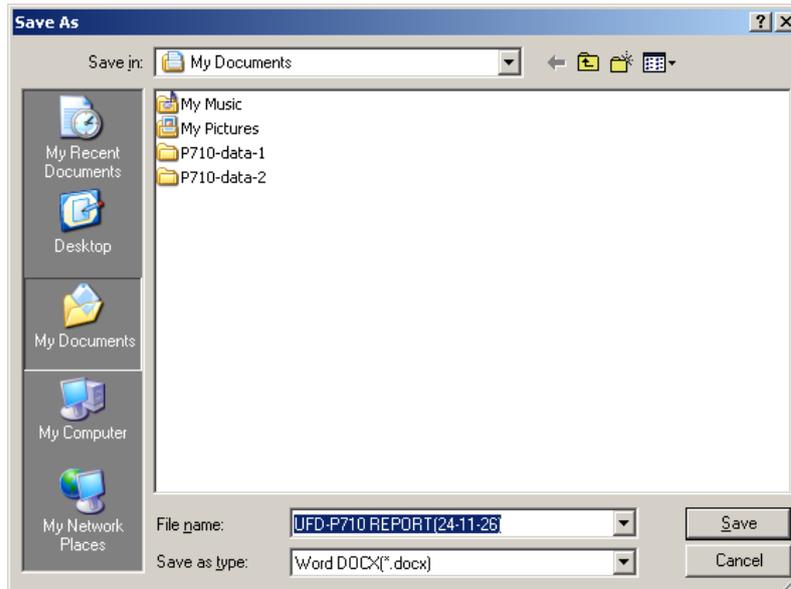


Figure 5-4 the save as file

5.3 Export Viewlist

The viewlist is shown in Figure 5-5 and Figure 5-6.

C:\Documents and Settings\Administrator\My Documents\SP710-data-1

VIEW SELECT ALL UNSELECT VIEWLIST

FILE

DEVICE NO.	CONTENT TYPE	TITLE	OPERATOR	TIME	FILENAME
1	A-SCAN	#DB2	tda	2022-6-8	A#DB2.ndt
2	A-SCAN			2022-4-7	A0001.ndt
3	B-SCAN			2019-11-6	bscan_data
4	SETTING			2019-11-6	param_data
5	TEST			2019-11-07	perf_test_data
6	REC	#DB	a	2022-4-7	REC#DB-1.ndt
7	REC	#DB	a	2022-4-7	REC#DB.ndt
8	REC	aaa	aaaa	2023-5-8	RECaaa.ndt
9	REC	aaa1	aaaa	2023-5-8	RECaaa1.ndt
10	REC	dac1	fi	2022-6-9	RECdac1.ndt
11	REC	dac3	fi	2022-6-9	RECdac3.ndt
12	A-SCAN			2019-11-6	wfm_data
13	A-SCAN			2022-6-9	wfm_data_1
14	A-SCAN			2022-6-9	wfm_data_2
15	A-SCAN			2019-11-9	wfm_data_dac
16	REC			2019-11-9	wfm_rec_data

Figure 5-5 the viewlist

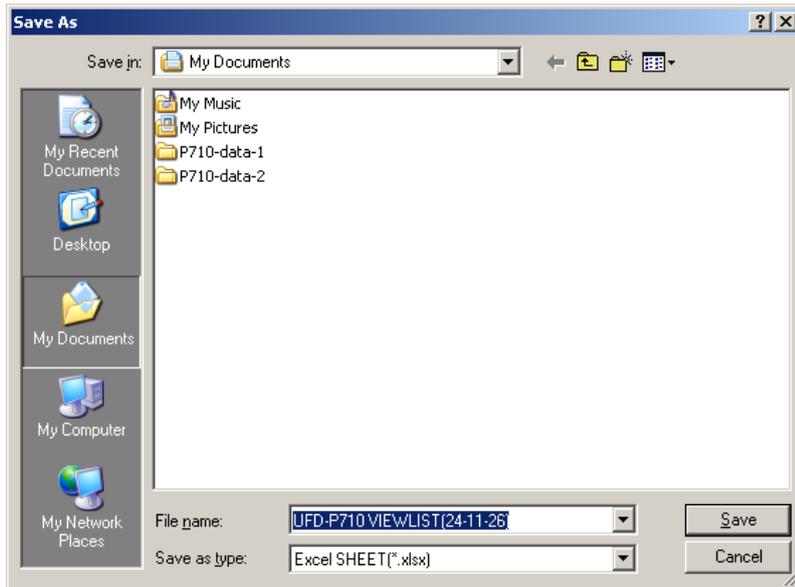


Figure 5-6 the save as box

The [VIEWLIST] button is used to export the data into an Excel file.



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