

User's Manual For Imposa Tools software

Version: 2.06

Revision History

Revision	Date of Revision	Description	Revised by
1.0	2006-11-24	This is the first edition.	Sureone
1.1	2006-12-18	Modified support connection address.	Sureone
1.2	2006-12-26	Updated the Imposa Tools software.	Sureone
2.06	2007-11-5	Updated the Imposa Tools software, version is 2.06.	Lin Zhenyu

imposa

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1. Terms and Definitions

- VPU3000: Video Process Unit
- LDU3000: LED Distribute Unit
- Imposa

 œ cabinet: The exterior dimensions of the cabinet are fixed. Each cabinet is matched with 6
 display modules. Each module has various rows and columns of pixels that make up the resolution,
 while the pixels are situated at certain distances which we call Pitches. Different pitches lead to
 different specifications.
- Display module: The modules are made up of light emitting diodes, driving circuits and front masks.
 The modules are potted with high performance silicon. The module is the basic element of an LED display.

2. Introduction to the Functions of the Software

- 2.1 To detect and set the size, display mode, driver board type, and color temperature, etc. of the LED display.
- 2.2 To detect the status of various Imposa[™] cabinets.
- 2.3 To test the LED display.
- 2.4 To read back, upgrade and repair the data on firmware, GAMMA data, configuration files, data for driver boards.
- 2.5 Advanced hardware backup and restoration.
- 2.6 To test system communication and computer serial ports.

3. Operation Environment

3.1 System Requirements

- Intel Pentium or Celeron MAX 500 MHz CPU or higher or compatible system
- RAM:128 M or more
- Available USB port or serial port (RS232)
- 10/100M Ethernet
- CD-ROM drive
- Windows 2000, windows XP and windows 2003 operate system
- Displaying mode: 1024X768, 24 Byte at least

3.2 Connecting the Equipment

3.2.1 Offline Display

LDU, Imposa™ cabinets, light sensor

Unless one or more **Imposa**[™] cabinets are connected, some of the functions may not be able to perform normally.

3.2.2 Synchronous Display

When in synchronous mode, the following equipment or instruments should be added to avail normal

operation

VPU3000, one pair of optic converters, video source (e.g., DVD player or other video equipment), DVI input

(as computers have DVI outputs)

4. Startup

4.1 Preparing for startup

Properly connect the equipment and the computer. If you want to connect a computer via USB to the VPU, please refer to "*Universal converter winxp A3 20060901*.pdf", and install the driver software for converting USB to serial communication.

4.2 Startup

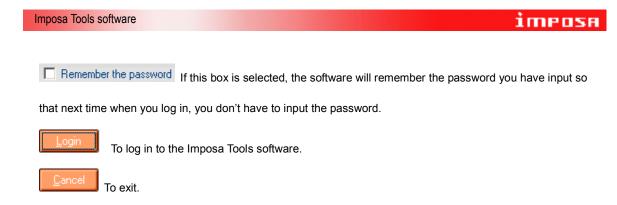
Choose Start\All programs\Imposa software\Imposa Tools, or double click *Imposa Tools.exe* in folder System disk directory \Program Files\Imposa \Imposa Software\Imposa Tools\.

To the software, you must log in. The Login window is as the following Fig. 4.1.

ітрозя	90
	User Login
2	Password:
	Remember the password
	Login <u>C</u> ancel

Fig. 4.1 Imposa Tools Login Window

Please input Password in the box after Password.



After logging in, you will see the software interface as shown in the following Fig. 5.1

5. Introduction to the Software Interface

5.1 Interface Introduction of the Imposa Tools

After the software Imposa Tools have been started, you will see the following (See: Fig. 5.1):

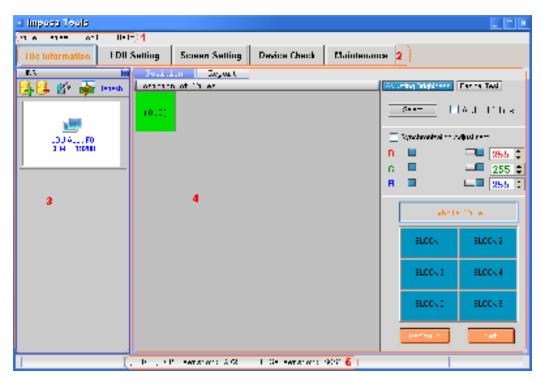


Fig. 5.1 Main interface of Imposa Tools

5.2 Menu Bar

As Fig. 5.1 area 1 shows, the Menu Bar has four menus: File, View, Tool and Help.

Fig. 5.2 Menu Bar

Menu Bar supports the same shortcut operation with Windows. One can press "Alt +the first letter of the menu name". See Tab. 5.1.

Menu Name	Shortcut key
File	Alt + F
View	Alt + V
Tool	Alt + T
Help	Alt + H

Table 5.1 Shortcut key of Menu Bar

5.2.1 File menu includes: Open Project, Save Project, Change Password and Exit.

<u>F</u>	ile
	Open Project
	<u>S</u> ave Project
	E <u>×</u> it

Fig. 5.3 File menu

- Save Project serves as saving the communication parameter and basic parameter on the current project.
- Open Project is to open the project file saved before.
- Change Password is to modify the current user's password.
- Exit means exit from the Imposa Tools software.

5.2.2 View menu includes: Tile Information, LDU Setting, Screen Setting, Device Check, and Maintenance.

Choose different buttons to switch to different setting windows.

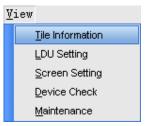


Fig. 5.4 View menu

5.2.3 Tool menu includes: Maintenance Wizard, Adjust Time, Serial Check, Auto Assign Address For Tiles,

Backup LDU Data, Recover, Backup Config Files of All Tiles, and Read Back All Brightness Data.

<u>T</u>	ool	
	Maintenance Wizard	
	Adjust <u>T</u> ime	
	Serial Check	
	<u>B</u> ackup LDU Data	•
	<u>R</u> ecover	•
	Backup Config Files of All Tiles	

Fig. 5.5 Tool menu

- Maintenance Wizard: Maintenance guide for operation.
- Adjust Time: To adjust the time of the display.
- Serial Check: Serial port for check.
- Auto Assign Address For Tiles: Automatically assign the address of each Imposa cabinet
- Backup LDU Data: For Backup of LDU data.
- Recover: To recover LDU data.
- Backup Config. Files of All Tiles: For backup of config files of all tiles.
- Read Back All Brightness Data: read back the brightness data of each cabinet.

5.2.4 Help menu only comprise About.

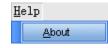


Fig. 5.6 Help menu

Select "Help\About", and the instructions to the software edition will appear ,see Fig. 5.7. Click anywhere on the window to exit the window.

About				×
Ξ		Imposa T	ools	
0 S	Version:	1.0.22	Build in	2006-12-19
Ę	Copyright:	2006.8 ~ 2006.12		
i i	Comments:	Tools For Impos	a Setting	

Fig. 5.7 About window

5.3 Setting Bar

Area 2 in Fig. 5.1 is just the Setting Bar. Select different buttons to switch to different setting windows. The functions are the same with View. Setting window is in area 4 in Fig. 5.1.

Tile Information LDU Setting Screen Setting Device Check Maintenau	ce 2
--	-------------



Fig. 5.8 Imposa Tools

5.4 LDU Management Bar

LDU Management Bar is in the area 3 in Fig. 5.1. One can add or delete LDU, set LDU's communication

parameters and even refresh them.

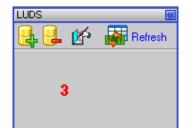
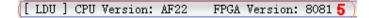


Fig. 5.9 LDU Management Bar

5.5 Status Bar

Status Bar is in the area 5 in Fig. 5.1.





Status Bar illustrates the firmware version of LDU. CPU Version is CPU's version number, and FPGA Version

is FPGA' version number. In Fig. 5.10, CPU's version number is A201, and FPGA' version number is 9003.

The window is refreshed only after Status Bar is switched to Screen Setting.

6. Explanations on Basic Operations

6.1 Managing the LDU

Through LDU Management Bar, one can add or delete LDU, set LDU's communication parameters and even refresh them.

Whenever switching among the operating windows, please remember to press before performing the next operation.

NOTE: 1 LDU can be consisted by many LDU HUB. Please note that what is shown in LDU Management Bar is the LDU corresponding address.

If it is the first time to operate the Imposa Tools, there will be no LDU in LDU Management Bar, as is

shown in Fig. 6.1. In this case, one should press to add the LDU HUBs according to the actual screen composition. One display can be made up of several LDUs, but they should be added one by one at a time,

Imposa Tools software

and can not be added all at once.

LUDS		<u></u>
.	2°	🚮 Refresh

Fig. 6.1 LDU Management Bar when Imposa Tools is operated for the first time.

6.1.1 Add LDU

Press I and there will appear a window as Fig. 6.2. Set the communication parameters according to

the actual connection of LDU.

LD	U	×
		O Ethernet
	Com Port:	COM1
	Baud Rate:	19200 🔻
	LDU Address:	FO
		OK Cancel

Fig. 6.2 Communication parameter setting for LDU

When computer and LDU communicate with each other via RS232/485 or VPU, choose RS232/485 and select the correct serial port and baud rate in Com Port. See Fig. 6.3.

Com Port:	COM1 👻	
Baud Rate:	19200 👻	

PIC 6.3 Selects serial port and the related baud rate.

When computer and LDU communicate with each other via Ethernet, choose Ethernet and input the

connect IP address (169.254.10.49, for example) in IP bar. See Fig. 6.4.



PIC 6.4 Selecting Ethernet and input IP address

Note: If it is an off-line display, one can choose RS232,RS485 or Ethernet as the communication means between computer and LDU. For baud rate can range from 2400Bps to 115200Bps. When used as a synchronous display, the communication between computer and LDU is realized by an optic fiber cable. In this case, only USB (USB switch to RS232) or RS232 can be used. The baud rate will be switched to 19200Bps automatically.

For the HUB Address, the option varies from F0 to F7. Set it according to the LDU's actual connections.

LDU Address:	FO ·	•

Fig.	6.5	Select	LDU	Address
------	-----	--------	-----	---------

Press to finish adding an LDU. Then the LDU Management Bar will turn to the following window. For the newly added LDU, the address is F0, serial port is COM5, and baud rate is 19200Bps.



Fig. 6.6 Adding one LDU

6.1.2	Delete a	an LDU
-------	----------	--------

Press to delete a LDU, as shown in Fig. 6.7, a confirmation window will appear. Press

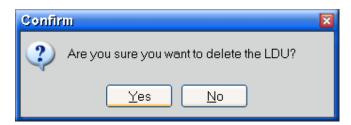


Fig. 6.7 To confirm deletion

6.1.3 Setting the communication parameters for the added LDU

Press to have Fig. 6.2 to come out. Set the communication parameters according to actual connections of LDU. Double click a certain LDU and there will also appear Fig. 6.2.

6.1.4 Rrefresh information of the added LDU

Press Refresh to have Fig. 6.8 to come out. It means the software is reading LDU's information.

After reading, the information will be shown in the setting window in area 4, as Fig. 5.1 shows.

Progress 🔀
Reading Data, Please wait
15%
Stop

Fig. 6.8 Reading LDU's information

6.1.5 To minimize LDU Management Bar

Press it again to resume full size. The minimized LDU

Management Bar is shown as in Fig. 6.9.

	Posi Posi O (O,
-UDS	<

Fig. 6.9 Minimized LDU Management Bar

6.2 Saving or Opening a Project File

6.2.1 Save the current project file Select File\Save Project to a file, Project1, for example, and press Save. The

suffix is cpj.

另存为					? 🛛
保存在 (L):	DPDATE		•	🗕 🗈 💣 🎟 -	
表	11-20. CPJ 12-5 10-236.				
	文件名 (M): 保存类型 (T):	Project1 Project File(*. cpj)		•	保存 (S) 取消

Fig. 6.10 Name the project file

6.2.2 To open a saved project file

Select File\Open Project. Choose the file-Project 1.Click Open. The extension suffix of the project file is

cpi.

打开		? 🗙
查找范围(I):	🔁 UPDATE 💌 🛨 🖽 🖬 🗸	
 我最近的文档 夏面 夏面 我的文档 夏前 夏前 我的电脑 夏前 夏前	m 11-20. CPJ m 12-5 10-236. CPJ m 12-5. CPJ m Project1. CPJ	
	文件名 (20): Project1.CPJ ▼	打开(0)
	文件类型(I): Project File(*. cpj)	取消

Fig. 6.11 Open the saved Project file.

6.2.3. Change Password

Select File\Change Password. First of all, input the old password. Then input the name password twice.

Click OK to finish the change.

🖏 Change Password 🛛 🛛 🔀
Old Password:
New Password:
Repeat Password:
<u>Q</u> K <u>C</u> ancel

FIG 6.12 Change password

6.3 Adjusting Time

Select Tool\Adjust time, and there will appear a window as shown Fig. 6.12.

Adjust Time		×
Display		
Date Time:	2006-11-23 10:38	
Time Zone:	GMT +08:00	
Computer		
Date Time:	2006-11-23 10:39	
Time Zone:	GMT +08:00	
<u>R</u> ead	🛃 Adjust 👖 Close	•

Fig. 6.12 Window of adjusting time

The software will read the date, time and time zone of the connected LDU, and show them in the Display bar. The date, time and zone of the computer will be shown in the Computer bar.

Read the date, time and time zone of the connected LDU, and show them in the Display

bar.

Adjust Adjust time. Send the computer's date, time and time zone to the connected LDU. If the

adjusting is successful, a window as shown in Fig. 6.13 will appear. Or if failed a failure prompt will come out.

Information 🛛 🗙
Time adjusted successfully
ОК

Fig. 6.13 Time adjusted successfully.



Close the current window

6.4 Testing the Serial Ports

Select Tool\Serial Check to have Fig. 6.14 to come out. This test can check if the serial port of the computer is normal. Before the test, connect the red joint attached with LDU to the serial port that needs testing.

Prepare the universal adaptor switching USB to RS232 to check USB port.



Fig. 6.14 Window of Checking a Serial Port

Choose the serial port to be tested.

6.4.1 Select a serial port and set its parameters

COM Port:	COM1	-
Baud Rate:	19200	•

Set the baud rate of the serial port to be tested.

6.4.2 Starting and finishing testing

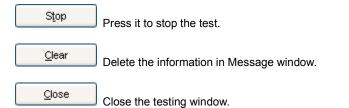
<u>S</u>tart

After selecting the serial port and baud rate, press button Start to start the test. The result will

be shown in the Message window (Fig. 6.15) of Check Serial Port , Fig. 6.14.

Requst ti	ime out	2006-11-23	11:08:53	~
Requst ti	ime out	2006-11-23	11:08:54	
Requst ti	ime out	2006-11-23	11:08:54	
Requst ti	ime out	2006-11-23	11:08:55	
Requst ti	ime out	2006-11-23	11:08:56	
Requst ti	ime out	2006-11-23	11:08:57	
Requst ti	ime out	2006-11-23	11:08:58	
				1

Fig. 6.15 Message window of Check Serial Port



imposa

6.4.3 Meanings of the results

Requst time out	2006-11-23 11:08:53	It means the serial port works abnormally.
Commission OV		
Commnication OK	2006-11-25 11:17:26	It means the serial port is normal.

6.5 Setting the Parameters for the LDU

	LDU Setting	
Select		or View\LDU Setting in the setting bar of Imposa Tools to switch to LDU Setting

window, See Fig. 6.16.

	LDU	Setting							
LUDS	<u> </u>								
LDU Addr: F0			Basical Setting			Communication			
COM3 19200		×		1	-	IP:	169.254.10.49		
<u> </u>		Y:		1		Baud Rate1	115200		
		LDI	U Width:	128		Baud Rate2	115200		
		LD	U Height:	96					
			Advan	iced Setting	1	(Color Adjust		
		Tile	e Num:	1		6500: R: 10 0	🖨 👩 100 🖨 B: 100 🚍		
						9300: R: 100	🚔 G 100 🖨 🖪: 100 🚔		
						Preset: R: 100	🖨 🖪 100 🖨 🖪: 100 🖨		
						Color Adjust:	Color Adjust		
			Restore to	Eactory Settin	ig 👘		Read Back Send		

Fig. 6.16 LDU Setting window

6.5.1 Basic Setting

×	1	
Y:	1	😫 s

Set the X and Y coordinates of LDU. Only valid for synchronous

displays.

LDU Width:	128	
LDU Height:	96	

Set the size of the display controlled by the LDU HUB. The setting

should be on the basis of the display's actual composition. When setting, one can press the number keys on

the keyboard directly or click is at the right of the input box to add or decrease the number.

6.5.2 Communication Setting

IP:	169.254.10 .49	Set the IP address of LDU HUB when using Ethernet to

Imposa Tools software imposa
communicate.
Baud Rate1 115200
Baud Rate2 115200 Set the baud rates of COM1 and COM2 on LDU HUB, Baud
Rate 1 should correspond with COM1, and Baud Rate 2 with COM2. The default baud rate is 115200Bps.
Tile Num: 40
HUB.
6.5.3 Advanced Setting
Display Mode: Synchronous
This is the display mode of the LED sign. User can choose either
Synchronous or Asynchronous
Gamma Index: Gamma 1 group information of the Gamma Data of the LED sign. There
are 4 Gamma groups. These 4 groups can be valid only when the sign is under Asynchronous mode. For
Synchronous mode, these groups are invalid.
Signal Direction LeftToRight Interstignal of the LED sign can be either from Left to Right or
Bottom to Top.
Function: Function1 There are Function 1 and Function 2 for option.
Screen Type: $48x36$ Set the height and width of the LED sign.
6.5.4 Brightness
Bright Mode: Manual There are 3 modes for the user to adjust the brightness:
Manual, Auto and Schedule.
Manual Adjust: 100 💭 % Test when the sign is under Manual Adjust mode, input the
brightness percentage into the input box. Or users can press Test to activate the synchronous setting,
as Fig 6.20 shows.



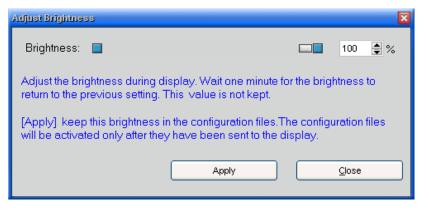
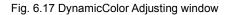


FIG 6.20 Adjust Brightness widow

Color Adjust:	Color Adjust	Adjust the color	temperature of	the display. Set it to be
6500K, 9300K or Pr	eset. The set value will be sho	own on the displa	y immediately.	
6500: R: 100	🛢 😋 100 🛢 B: 100 🊔	Set the color ter	nperature when a	t 6500K.
When setting, one of	can press the number keys o	n the keyboard c	irectly or click	at the right of the input
box to add or decrea	ase the number.			
9300: R: 100	🖨 G 100 🖨 B: 100 🖨	Set the color terr	perature when at	9300K.
Preset R: 100	🖨 😋 100 🖨 🖪: 100 🌩	Preset the color t	emperature.	
Set the color temp	perature of the display synchro	onously. Press		
Color Adjust t	o open the Color Adjusting Dy	namical window	. See Fig. 6.17.	
Color Adjust	ing Dynamically			×
R:				100 🗘 %
G:				100 🗘 %
B:				100 🗘 %
	color during display. Wait o s-value is not kept.	ne minute for th	e color to return t	to the pre∨ious
	00] keep this color to 9300 i I only after they have been			nfiguration files will
Savet	o 5600 Save to 9	300 :	Save to Customize	Close



16

The value of color temperature of the display set in this window can be shown forthwith, but it can't be

saved in config files. One minute later after setting, the display will return to the original value.

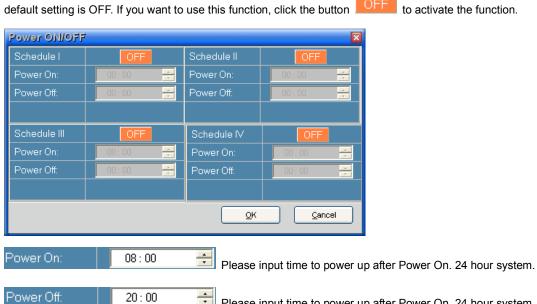
R:	1	100 🗘 %
G: 📮	1	100 🗘 %
B: 🔲	1	100 \$ %

When adjusting the ratio of the three colors so as to change the display's color temperature, one can

press the number keys on the keyboard directly or click at the right of the input box to add or decrease the number

Save to 5600	Save to 9300	Save to Customize	The place	to save	the color			
temperature after setting. F	Press Save to 5600 to sav	ve the value to 5600K. Or	r you may sa	ve it to 9	300 in the			
same way. Press Save to Preset to save it to a Preset place. The saved value of color temperature should be								
sent to LDU. Otherwise one	e minute later, the display v	will return to the original o	ne.					

Power:	Power On/Off									
		Automatically	switch	ON	and	OFF	the	LED	screen.	The



to activate the function.

Please input time to power up after Power On. 24 hour system.

6.5.5 Sending and resuming the parameter.

Send the set parameter to LDU. After sending, LDU will be reset automatically. Therefore, the



computer will hault communication with LDU for several seconds.

Read back LDU's parameters.

6.5.6 System Information

System Information

Show the information of the system

6.5.7 Restore to Factory Setting

Restore to Eactory Setting

Recover the content in LDU Setting window to factory setting. This

doesn't include: Advanced setting and Basic Setting.

Contents of the factory setting.

Item		Value
Communication	IP	169.254.10.49
	Baud rate1	115200
	Baud rate2	115200
Color Adjust	6500K	R:100 G:100 B:100
	9300K	R:100 G:100 B:100
	Preset	R:100 G:100 B:100

TABLE 6.1 LDU Setting window for the content of factory setting

6.6 Auto Assign Address for the Tiles

Select Tool/Auto Assign Address for Tiles, as FIG 6.18 shows. With this feature, user can assign the address without having to adjust the switch code manually. Instead, users can use CPU to download the necessary information and assign the address of every cabinet. Press Auto Assign Address for Tiles, a window shows-up as FIG 6.18 shows. Press Yes, users will see the processing window of FIG 6.19. The system will reboot if the assignment is not successful, as FIG 6.20 shows. If the Assignment is successful, user will see the window of FIG 6.21.



FIG 6.18 Inquire window of auto assign address

Progress	×
Assigning address for Tiles, Please wait.	
0%	
Stop	

FIG 6.19 Processing window of auto assign

Error		×
8	Failed to assign address for Tiles. Please Recycle Electrical Power to Display!	
	ОК	

FIG 6.20 Power up (reboot) again to display when assignment is failed

Inform	aition	×
į)	Auto-assign address for Tiles successfully.	
	ОК	

FIG 6.20 Successful auto assignment

Setting the Parameters of the Screen

Select Screen Setting or View\Screen Setting in the setting bar of Imposa Tools to switch to Screen Setting window, see Fig. 6.18. Just as Fig. 6.19 shows, the software can read back the display's parameters automatically.

	Screen Setting		
	Туре	D	lisplay
Screen Type:	6*12(26.7mm) 🔤	Display Mode:	Asynchronous
Max Width:	512 景	Gray Mode:	888 🗹
Max Height:	288 景	Gamma Index:	Gamma 1 🛛 🗹
Br	ightness	Powe	er ON/OFF
Bright Mode:	Manual 🗨	Phase 1	OFF
Manual Adjust:	100 🖨 🛛 Test	Power On:	00:00 🛨
Schedule:	Schedule Table	Power Off:	00:00 🛫
More Information	Restore to <u>Factory</u> Se	ettings <u>R</u> ead	Back <u>S</u> end

Fig. 6.18 Screen Setting window

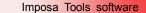
Progress	×
Reading Data,Please wait	
86%	
Stop	

Fig. 6.19 Software read back the display's parameters automatically after entering Screen Setting

6.6.1 Type

Screen Type:	6*12(26.7mm)	Show cabinet's type. This value is read back automatically by the
software.		
Max Width:	512	
Max Height:	288	Set the width and height of the display according to the display's
exact size.		
6.6.2 Display		
Display Mode:	Synchronous	The displaying mode of the display. There are two options:

Imposa Tools software imposa
Synchronous or Asynchronous
Gray Mode: 888 The gray mode of the display. Two options: 5:6:5 or 8:8:8. This can
only be valid when the display is in the mode of off-line displaying.
Gamma Index: Gamma 1 Gamma Index of the display. Altogether there are 4 groups: 1-4.
This function is valid only when the display is in the mode of off-line displaying.
6.6.3 Brightness
Bright Mode: Manual Set the brightness control mode of the display. There are three
modes: Manual, Auto and Schedule.
Manual Adjust: 100 F Test Brightness setting when the mode is Manual. One can select a
value directly in the input the box or press Test to set it synchronously. The synchronous setting
window is shown as Fig. 6.20 .
Adjust Brightness
Brightness: Image: Comparison of the second sec
Apply <u>Close</u>
Fig. 6.20 Adjust Brightness window
Brightness:
or input the needed value directly into the box. The display will reflect the related brightness immediately.
Press Apply to close the window and save the value to the input box following Manual
Adjust. Press
♪ It is only valid after sending it to LDU. Or one minute later, the display will recover to the original value.
6.6.4 Brightness schedule setting





Schedule:

Schedule Table

Schedule the brightness of a whole day manually. It is unvalid

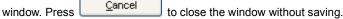
when the brightness schedule is default. The window is as Fig. 6.21 shows.

Brig	htness So	hedule	×
	Start Time	End Time	Brightness
	00:00	00:00	13 🚖%
	00:00	00:00	10 🔹%
	00:00 👻	00:00 🛫	10 뢎%
	00:00 🔺	00:00 🗧	28 🌩 %
	00:00	00:00	10 🚖%
OK Cancel			

Fig. 6.21 Brightness Schedule window

The schedule can be divided to 10 period of time maximum. As Fig. 6.22 shows, only after ticking in the box at the front of the schedule bar it can be valid. Input the start time into the Start Time box, end time into the

End Time box, and brightness value into the Brightness box. Press



It divide a day into two phases, one is from 8:00 to 17:00. The other is from 17:01 to 07:59. Both of their brightness is 100%.

Start Time	End Time	Brightness
08:00 ÷	17:00 ÷	100 🚖 %

Fig. 6.22 One schedule bar

The schedule time is 24hour mode.

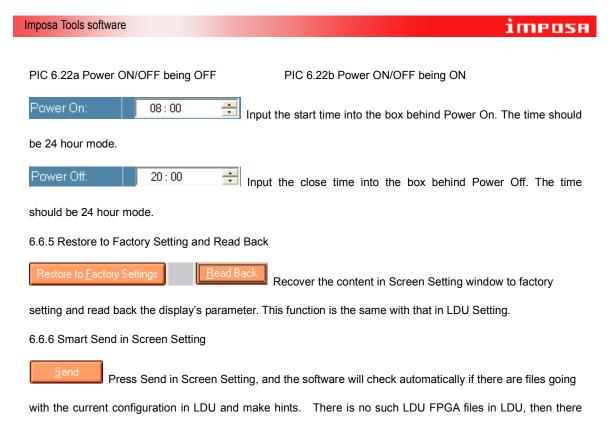
6.6.4 Power ON/OFF

Open or close the display according to the pre-set schedule time. When it is default, it on the function of OFF.

So for the usage of this function, click

OFF to start the function. See Fig. 6.23b.

Phase 1	OFF	Phase 1	ON
Power On:	00:00 🐥	Power On:	00:00
Power Off:	00:00 🐥	Power Off:	00:00



will appear a confirmation window as Fig. 6.23 shows. Press Yes to continue the sending, and No to cancel it.

Confirm	×
FPGA File for LDU is not available. (Continue or not?
Yes <u>N</u> o]

Fig. 6.23 Hint window when there is no LDU FPGA files that go with the current configuration in LDU

When there is no FPGA files of control board going with the current configuration in LDU, there will appear a confirmation window as Fig. 6.24 shows. Press Yes to continue the sending, and No to cancel it.

Confirm	×
PFGA File for Tiles is not available. Continue or not?	
Yes <u>N</u> o	

Fig. 6.24 Hint window when there is no control board FPGA files that go with the current configuration in LDU After sending, LDU will recover automatically. So computer and LDU will not communicate with each other for several seconds.

6.6.6 More information

imposa

More Infomation

After selecting, a window will appear (as Fig. 6.25). What displayed is the detailed

contents.

Detailed information for Screen Se	ittings	×
LDU Number:	1	
Screen Type:	6*12(26.7mm)	
Screen Width:	512	
Screen Height:	288	
Screen Coordinate:	(43,0)	
Display Mode:	Asynchronous	
Gray Mode:	888	
Brightness Mode:	Manual Adjust	
Manual Brightness:	100	
Half-brightness Protection:	ON	
Temp. at half-brightness:	60	
Half-brightness percentage:	95	
Display-off Protection:	OFF	
Power-off Temp.	70	
Display-off Percentage:	95	
Monitor Mode:	OFF	
Auto Backup:	OFF	
Retry Times:	3	
Min Current of Fan:	50	
Max Current of Fan:	700	
Min Volatage of Power:	4	
Max Volatage of Power:	13	
Record Size:	0	
Record Interval:	0	
Width of Drive Board:	12	
Height of Drive Board:	6	
Hor_TileNum:	20	
Color Setting:	Customize	
		-
Export	Close	

Fig. 6.25 Detailed information for Screen Settings

<u>E</u>xport

<u>C</u>lose

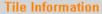
Select

Contents in the detailed information for Screen Settings window can be sent to a LOG. file.

Press Export , select a saving path and name the saved file. The suffix of the file is LOG.

Close the window.

6.7 Basic Information of the LDU, Basic Colors Adjustment and Display Test



or View\Tile Information in the setting bar of Imposa Tools to switch to Tile

Information window. See Fig. 6.26.

Tile Information							
LUDS	[Positio		port				
🔒 🔒 🖆 🛛 🐺	Position	of Tiles				Adjusting Brightn	Basical Test
	00 (0,0)	01 (1,0)	02 (2,0)	03 (3,0)	04 (4,0)	Select	🗆 ALL Tiles
HUB Addr: F0 COM6 19200	08 (0,1)	09 (1.1)	0A (2,1)	0B (3,1)	0C (4,1)	Synchroniz	ation Adjustment
	10 (0,2)	11 (1,2)	12 (2,2)	13 (3,2)	14 (4,2)	B:	□■ 255 \$
							Whole Tile
	18 (0,3)	19 (1,3)	1A (2,3)	1B (3,3)	1C (4,3)	BLOCK	.1 BLOCK 2
	20 (0,4)	21 (1,4)	22 (2,4)	23 (3,4)	24 (4,4)	BLOCK	.3 BLOCK 4
						BLOCK	.5 BLOCK 6
	<	Ш)	>	Defaul	t <u>S</u> et
	[LDU]C	PU Versio	n: AFOD	FPGA Ve:	rsion: 80	81	

Fig. 6.26 Tile Information window

6.7.1 Outlay viewgraph of cabinets

Position Click the button Position in setting window to switch to outlay viewgraph. From Fig. 6.26 we can see that there are 25 cabinets connected to LDU. These cabinets are arranged automatically according to the data flow. So they are only having something to do with the connection between Imposa[™] cabinets and LDU instead of address.

08 (0,1)

08 is the cabinet's address. The address is counted by hexadecimal system. (0,1) is the cabinet's coordinates in the whole screen. 0 is the line coordinate, and 1 is the column coordinate. So the cabinet is in 0 line and the first column.

6.7.2 List viewgraph and the reflecting information

imposa

Report

Click the button Report in setting window to switch to list viewgraph. See Fig. 6.27. It shows

the detailed information of cabinets connected to LDU in the form of list.

		_	Keport					
Address	X	Y	∛idth	Height	Brightness(%)	Temperature(C)	CPU Version	FPGA Version
00	0	0	24	18	100	31	2500	0083
01	1	0	24	18	100	31	2500	0083
02	2	0	24	18	100	31	2500	0083

Fig. 6.27 List viewgraph window

List viewgraph reflect the information of Imposa[™] cabinets. See Table 6.2 for details.

Item	Instructions	Unit
Address	Cabinet's address. Represented by	
	hexadecimal system	
Х	X coordinate of the cabinet in the whole	
	screen	
Y	Y coordinate of the cabinet in the whole	
	screen	
Width	Width of the cabinet	Pixel
Height	Height of the cabinet	Pixel
Brightness (%)	Brightness of the cabinet	%
Temperature (C)	Temperature of the cabinet	
CPU Version	Version of control board CPU program	
FPGA Version	Version of control board FPGA program	
Frame Frequency	Frame frequency of the cabinet	Hz
Fan (On/Off)	On /Off status of fans in cabinet	
Fan Current (mA)	Working current of fans in cabinet	mA
Power Voltage1 (V)	Input power voltage 1 of control board	V
Power Voltage2 (V)	Input power voltage 2 of control board	V
Ethernet State	State of Ethernet	
Time in high Temperature	Working duration of cabinet in high	
	temperature	
SN	Serial number of cabinets	
Gamma Index	Gamma data index of control board	

TABLE 6.2 Information for Imposa[™] cabinet

6.7.3 Basic colors adjustment

In outlay viewgraph, select Adjusting Brightness to adjust basic colors. This can't be operated in List viewgraph.

6.7.3.1 Select the cabinet going to be adjusted first

Click the green pane under Position of Tiles using mouse left key.

When more than one cabinet is chosen, users can press Ctrl and click the cabinets.

Or one can click

select to open the selecting window. See Fig. 6.28.

Choices Dialog	×
AvailableTile(s): 01 03 04 05 06 07 08 09 0A 0B 0C	Selected Tile(s):
	<u>OK</u> <u>Cancel</u>

Fig. 6.28 Cabinet selecting window

Available Tile(s): Address of the cabinets that are available.

Selected Tile(s): Address of the selected cabinets.

The selecting and deleting of cabinets are operated by the following buttons in the table.

Button	Instructions
>	Select one cabinet's address in Available Tile(s) and press this button to add it to Selected
	Tile(s).
>>	Add all the cabinets in Available Tile(s) to Selected Tile(s).
<	Delete the selected cabinets in Selected Tile(s).
**	Delete all the cabinets in Selected Tile(s).

TABLE 6.3 linstructions for buttons

<u>o</u>k

Reflect the selected cabinets to Position of Tiles and close the window.

Close the window

ALL Tiles If ticked in the box, then all the cabinets in Position of Tiles will be selected.

6.7.3.2 Select modules in the selected cabinet

Whole Tile

Adjust the whole cabinet

imposa

BLOCK 1	BLOCK 2
BLOCK 3	BLOCK 4
BLOCK 5	BLOCK 6

Adjust the modules in the cabinet. Click one box using mouse left key to turn it to

BLOCK 1

When more than one module is chosen, users can press Ctrl and click them.

6.7.3.3 Basic color adjustment

Synchronization Adjustment If ticked in the box, it means the adjustment can be synchronous and the display will reflect the result forthwith.

R:		255 🗘
G :		255 🗘
B :		255 🗘

Click the triangle button or input values directly into the box. Observe the displaying effect of the screen until it

meets the requirements.

It is only valid after sending it to LDU. Or one minute later, the display will recover to the original value.

6.7.3.3 Sending and recovering the default value

<u>S</u>et

Send the result of the basic color adjustment to LDU. After sending, the display will show it

ourt.



Recover the default value of the selected cabinets or module's basic color adjustment. When

the following hint window appears, press Yes to continue and No to cancel it.

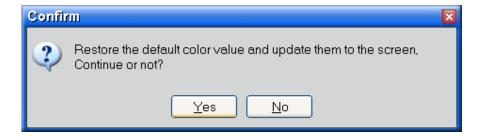


Fig. 6.29 Confirmation window for recovering the basic color adjustment

The operation will take a longer time, so be patient. When the hint window as shown in Fig. 6.30b appears, the

recovery will be successful.

Progress 🛛	
Sending Data,Please wait	
and a set of the second A because and	Information 🛛 🛛
0%	Set successfully
Stop	ОК

PIC 6.30b Set successfully.

6.7.4 Basic test

PIC 6.30a Sending Data

In the outlay viewgraph, select Basical Test to have Basic test. Basic test can't be operated in list viewgraph.

6.7.4.1 Select cabinets need operating before Basic test. The way is the same with 6.1.7.3.1.

6.7.4.2 Select the mode of Basic Test in the mode box (Fig. 6.31) . For instructions of each mode please consult TABLE 6.4.

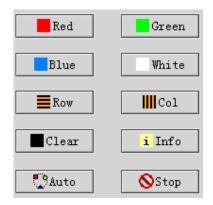


Fig. 6.31 Mode window of Basic test

Mode button	Instructions	Mode button	Instructions
Red	The whole display is red.	III Col	Scan in vertical lines from left to right
Green	The whole display is green	Clear	Black screen. No display of the selected cabinets
Blue	The whole display is blue	i Info	Show the switch on Information of selected cabinets
White	The whole display is white	Auto	Test automatically

imposa			Imposa Tools software
Row	Scan in lines from bottom to top	⊗ Stop	Stop test
TABLE 6.4 Instru	ctions for the mode of Basic	test	
6.8 Equipment Test			
Test the state of the connect		Device Check	Device Check
	ools to switch to Device Che		
		Device Check	
Only Error Informatio	Start	pp Export	Message window
	LDU] CPU Version: AFOE	FPGA Version: 8081	
	Fig. 6.32 Device	Check window	
Start Start Devi	ce Check. The testing resul	t will be shown in Message	window. The software will
test the status of LDU and	cabinets automatically. See F	ig. 6.33a and Fig. 6.33b.	
Stop Stop Devi	ce Check.		
Export Send the	testing result to a LOG file. C	Click Export and name the fil	e then save it. The suffix of
the sent Device Check resu	ılt is LOG.		
Only Error Informatio If tie	cked in the box, Message wir	ndow will show only wrong ir	formation.
HUB Addr: F0 CPU Version: AF0E Bright Sensor: NA	FPGA Version: 80 Temperature Ser		

PIC 6.33a LDU testing information in Device Check Message window

Tile Addr: 00 Communication: OK CPU Version: 2600

Ethernet State: OK FPGA Version: 0083

PIC 6.33b Testing information of control board in Device Check Message window

6.9 Pixel detection

Select

Pixels Check

in IMPOSA TOOLS. Or users can choose View/Pixel Check to switch to the

Pixels Check window, as Fig 6.33 shows.

🖃 Impose Tools				_ 🗆 =
Eile Eil- 1011 H.1	<u>ل</u>			
	Setting Device Ch	eck Maintenance	Pixels Check	
	Practice of Intes			
JJAFD L IVS	10 10 10 10 10 10 10 10 10 10			
	Potels Check		Tee Jie &	

FIG 6.33 Pixels Check Window

Press Pixel Check in FIG 6.33 to open the detection function. Or double-click as FIG 6.34 shows. When the process reaches 100%, there will be no difference with the interface. Click Detail, as FIG 6.35 shows. With this function, user will be able to see the exact position of each pixel. Black means the pixel is normal. For



the meaning of the other colors, users can refer to the table on the right, as Fig 6.35 shows.

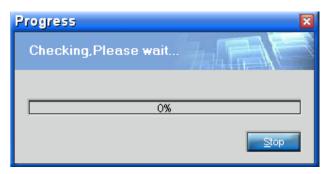
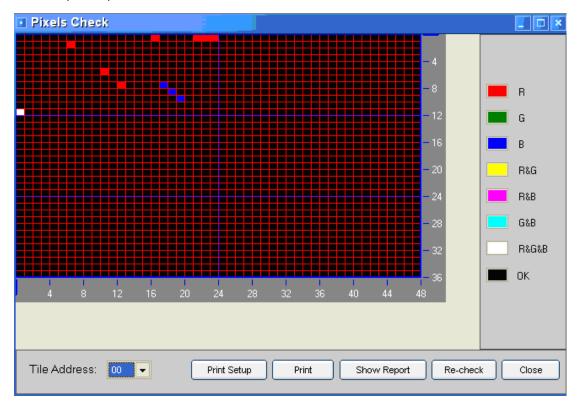
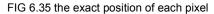


FIG 6.34Open the pixel detection





Tile Address: 00 - Fint Setur Fint Security Rectived 0000 Tile Address refers to the address of
the cabinet that with the problem pixel. In this drawing, the address is 00. User can clink Show Report
there will come out a .txt file, as FIG 6.36 shows. Click Re-check for a second checking. In FIG 6.36,
48X64 refers to the type of the Imposa cabinet.

```
Prixel sCheck, TXT   記事才
                                                                                                     .]=[×
2010 JAND 550 760 800
                      tite Size: OH & DA
                                                                   Letting: (H , H)
Lite Address: HH
                                              Had Dol
                                                             14
R: H
(HH,111 [Open ]
                   (HA, HI) [Bpen ]
                                        CIN'NAL Enhant 1
                                                            (12,07) [Open ]
                                                                                (IA, HH) [Upen ]
(21,001 [0000 ]
(22,001 [0000 ]
(20,00) [Прео ]
6: 2
(AH'III Fulsen 1
                   (HG, HA) [ Upen ]
11: 14
CHH'III Enhen 1
                                       сти,инт Глово 1
                   CIN, MALE Tableso 1
                                                            CIA'NAL Enhan 1
```

FIG 6.36 Notepad of the pixel detection

7. Explanations on Advanced Operations

Advanced operation is reserved for those who have knowledge about the Imposa[™] system. Improper operation may cause abnormalities on the display.

7.1 Backup and Restoration

It is highly recommended that you save a backup of the key data in the LDU at a safe place in your LDU or computer, so that when some accident happens, you can restore the key data from that safe place in the LDU or from your computer to the LDU. After restoration, the settings in the LDU will be exactly the same as the backup data. This will save the trouble of re-setting the parameter data.

Contents for backup:

- FPGA data
- Configuration files
- Driven files
- Gamma data files

J Operation is done only to the LDU that is currently in the LDU management bar. Operation towards

imposa

multiple LDUs is not possible.

7.1.1 Backup LDU data

This operation saves key data in the LDU to a safe place in the LDU or to your computer.

7.1.1.1 Saving to LDU

To save the key data in the LDU to a safe place in the LDU.

Select Tool\Backup LDU date\Save to LDU, and you will see the confirmation window as shown in Fig.ure 7.1.

Press Yes to continue, and press No to cancel.

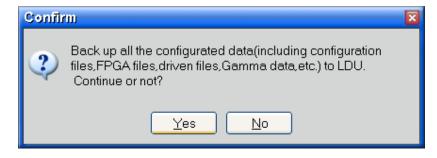


Fig. 7.1 Saving to LDU confirmation window

Operation in progress (as can be seen in Fig. 7.2). Please wait.

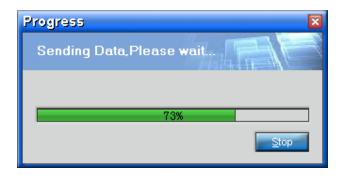


Fig. 7.2 Saving to LDU

After the operation is successful, you will see the window as shown in Fig. 7.3.

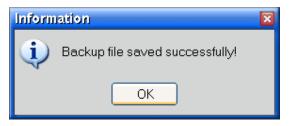


Fig. 7.3 Prompt for successful operation

7.1.1.2 Saving to Computer

To save key data in LDU to a designated place in your computer.

Select Tool\Backup LDU date\Save to Computer, you will see the window as shown in Fig. 7.4.

	Backup Data				
	Backup the LDU Data, and Save to the computer.				
	Note: The LDU data includes Config File, FPGA File, Gamma File, Drive Plate Data and so on.				
	Save To				
	Backup Cancel				
·	Fig. 7.4 Backup Data window				
Please press	•• to select the place for saving the backup files. And then name the file with the suffix LDU.				
Press the but	tton Backup to save the backup file to the computer, and press the button				
<u>C</u> ancel	to exit backup operation.				
The progress	of saving a backup file from the LDU to a computer is shown in Fig.ure 7.5. You can press the				
button	anytime during the process to cancel the backup operation.				
	Backup Progress				
	Task State				
	Compressed Files Sending data				
	waking				
Current Progress:					
	68%				
	Main Progress:				
	34%				

Fig. 7.5 Backup Progress window

When the operation is successful, you will see the window Fig. 7.6.

Inform	ation	×
i)	Backup Completed !	
	ОК	

Fig. 7.6 Prompt window for successful backup operation

7.1.2 Recover

ітрозя

To recover the backup data from the safe place in the LDU or from your computer to the LDU.

7.1.2.1 Recovering from LDU

To recover the backup data from the safe place in the LDU to the LDU.

Select Tool\Recover From LDU, and you will see the confirmation window as shown in Fig.7.7. Press

Yes to continue, and press No to cancel.

Confi	m	×
?	Restore all the configurated data(including configuration files, FPGA files, driven files, Gamma data,etc.) from LDU. The original configuration will be covered. Continue or not?	
	Yes <u>N</u> o	

Fig. 7.7 Confirmation window for Recovering From LDU

Operation in progress(as shown in Fig. 7.8). Please wait.

Progress 🛛
Restoring Data, Please wait
0%
Stop

Fig. 7.8 Recovering From LDU

When operation is successful, you will see the following window as shown in Fig. 7.9.

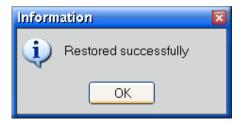


Fig. 7.9 Prompt for successful operation.

7.1.2.2 Recovering from Computer

To recover backup data from your computer to the LDU.

Select Tool\Recover\Recover From Computer, and you will see the window as shown in Fig. 7.10.

Restore
Restore data: restore the data from the computer to the LDU.
Note: After restoring, the original data of the screen (including FPGA data,Gamma data,drive board data) will be covered.
File Name:
<u>R</u> estore <u>C</u> ancel

Fig. 7.10 Window showing restoring

Press to select a backup file in your computer with a name like Backup.LDU. LDU backup files all have

the suffix .LDU.

Press the button	<u>R</u> estore	to start recovering	backup files fro	om computer	to the LDU.	Press
		, c	·			
<u>Cancel</u> to e	exit recovering.					
The progress wind	dow of recovering a ba	ckup file from the co	mputer to the L	.DU is as sho	wn in Fig.7.1	1.You

may press the button

<u>Cancel</u> to cancel the backup operation.

imposa

Rest	ore		×
	Task	State	
	✓ Send Data Image: Second Data	Sending Waiting	
	' Current progress:		
	2%		
	Main progress:		
	0%		
		Cancel	

Fig. 7.11 Recovering From Computer

When the operation is successful, you will see the Fig. 7.12 window.

Inform	ation	×
į)	Restored successfully	
	ОК	

Fig. 7.12 Prompt for successful operation

7.1.3 Backup Config Files for All Display Tiles

This is to save all configuration files to the LDU.

Select Tool\ Backup Config Files for All Tiles, and you will see the window as shown in Fig. 7.13. Press Yes to

continue and No to cancel.

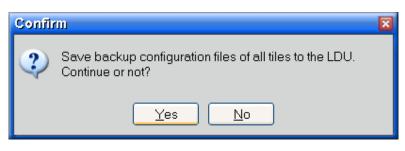


Fig. 7.13 Backup Config Files for All tiles

Operation in progress (as shown in Fig. 7.14). Please wait.

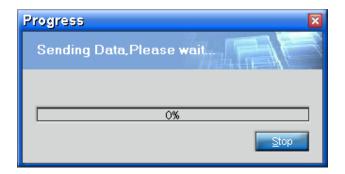


Fig. 7.14 Backup Config Files for All Tiles in progress.

After the operation is successful, you will see the window as shown in Fig. 7.15.

Inform	ation	×
٩	Backup Completed !	
	ОК	

Fig. 7.15 Window for successful operation

7.1.4 Read Back All Bright Data

Read back all the brightness data of all cabinets

Select Tool\Read Back All Bright Data. The following window will shows up.

Progress	×
Reading Bright Data, Please	wait
6%	
Tile Address is 00 .	Stop

FIG 7.16 Read Back being read

7.2 Repair and Upgrading

It can repair or upgrade the data in the control card or LDU, and read back various data in the control card, all

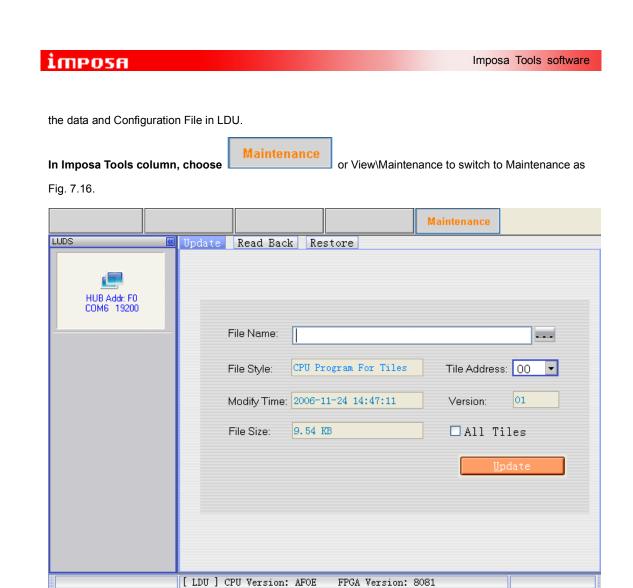


Fig. 7.16 Maintenance

Update [Read Back] Restore User can switch to different setting windows by clicking Update,

Read Back or Restore.

7.2.1 Upgrading software

Click Update and switch to the window of Update as Fig.7.17. All the required files can be sent to the LDU or control card through the window of Update.

File Name:	
File Style:	Tile Address: 00 💌
Modify Time:	Version:
File Size: Update file information area	All Tiles
	<u>U</u> pdate

Fig. 7.17 The window of Update in Maintenance

behind the File name to choose the files which need to be upgraded. For example: Click SCHFQS40_V01.RBF, the information of the file will appear in Update file information area. Like Fig. 7.18, this is a FPGA for LDU file, its Version is 01, Modification Time is 2006-11-22 11:47:37, File Size is 72.27KB.

File Style:	FPGA For LDU		
Modify Time:	2006-11-22 11:47:37	Version:	01
File Size:	72.27 KB		

Fig. 7.18 Window of information for an Update file

Only when upgrading the files in the control card, can Tile Address and All Tiles be selected, when upgrading

LDU file, those two can not be selected as Fig. 7.19a and b.

Tile Address: 00	🗆 All Tiles
Fig. 7.19a Tile Address cannot be selected F	ig. 7.19a All Tiles can not be selected
Tile Address: 00 🔹 when upgrading the	control card files, please choose the address of the control
card which need to be upgraded. FF means choo	sing all control cards.
All Tiles Choosing All Tiles is equal to	o choosing FF address, it means choosing all control cards.
Update Update the open files to	LDU or the selected control card.
7.2.2 Read back the data	

Click Read Back and switch to Read Back as Fig.7.20. Various data in the control card, the Configuration Files and all data in LDU can be read back.

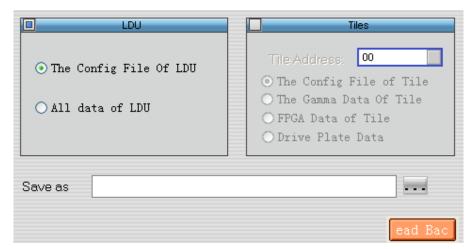


Fig. 7.20 Read Back window in Maintenance

Choose at the upper left corner of LDU or Tiles, choose the operating object to be LDU or Tiles.

7.2.2.1 Read back the LDU data.

In the window of LDU (like Fig. 7.21), choose the files which need to be read back, Click **••••** behind Save as and choose the route of the saved file and name it.

<u>R</u>ead Back

Read back the selected files in the chosen operation object.

LDU
⊙ The Config File Of LDU
○ All data of LDU

Fig. 7.21 The LDU part in Read Back of Maintenance

The data which can be read back from LDU

- The config file of LDU
- All data of LDU

7.2.2.2 Read back the data of Tiles

In the window of Tiles (As Fig. 7.22), choose the files which need to be read back, and choose the required

Tiles in Tiles Address.

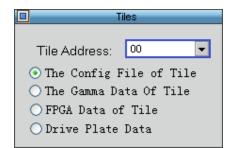


Fig. 7.22 The part of Tiles in Read Back of Maintenance

Click **...** behind Save as and choose the route of the file which need to be saved, and name the file.

Read back the selected files in the chosen item for operation.

The data which can be read back from Tiles

- The config file of Tiles
- The Gamma data of Tile
- FPGA data of Tile
- Drive plate date

7.2.2 Repairing

Click **Restore** and switch to the window of Restore as Fig.7.23. The Repairing operation is valid only to Tile.

Tile Address: 00 🔹 🗆 All Tiles
• Restore the FPGA of Tile
○ Restore the Gamma Data of Tile
○Restore the Drive Board data
○Restore the Config File of Tile
Restore Single Tile Operation mode
Restore

Fig. 7.23 Window of Restore in Maintenance

Tile Address: 00 💌

choose the address of the Tile which needs to be repaired, FF means

imposa

choosing all control cards.

All Tiles Choose

Liles Choosing this is equal to choosing FF address, it means choosing all control cards

Selection in Operation mode

Restore

The repairing work begins in the selected object for operation.

The operation mode of Tiles

- The config file of Tiles
- Restore the FPGA of Tile
- Restore the Gamma data of Tile
- Restore the Drive board data
- Restore the config file of Tile
- Restore single Tile
- ♪ Restore single Tile does not support the simultaneous operation to more than one Tile.

7.3 Guide to Repairing

Select the Tool\Maintenance, and the Guide will read back the configurations automatically as shown in

Fig.7.24. The repair interface is as shown in the following Fig.7.25

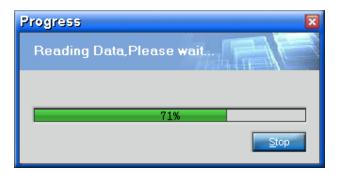


Fig. 7.24 Guide reading back the configuration parameters

🔲 Maintenan	ce Wizard				
	Screen Type: 6*12(26.7mm)				
	Program	Computer	LDU	Restore	Update
	HUB A	ddress: F0 IP: 10	69.254.10.49		
	Configure of LDU	Not Exist	Exist		
	FPGA For LDU (0000)	Not Exist	Exist		
	Configure Of Tiles	Not Exist	Not Exist		
	FPGA For Tiles (0000)	Not Exist	Exist		
	Drive Board Data	Not Exist	Exist		
	Gamma Data 📃 🛄	Not Exist	Exist		
a					
6					
MPOSA Full Color Screen					
l 🕺 🗧 👘					
0 0					
IMPOSA Full Color					
🚔 🕰					
					11
Restore: Relo	ading the data in LDU to the Tiles				
		_			
			Update	<u> </u>	lose

Fig. 7.25 Interface of repairing

7. 3.1 Introduction to the interface

Screen Type:	6*12(26.7mm)
--------------	--------------

Show cabinet's type. This value is read back automatically by

the software.

Program items. Repairable items are listed under the Program.

•

The repairable items:

Configure of LDU: LDU configuration files

FPGA For LDU(0000): LDU's FPGA files

Configure of Tiles: Cabinet configuration files

FPGA For Tiles(0000): Cabinet configuration files

Drive Board Data: Cabinet driver board data table

Gamma Data: Gamma data

To select a file that corresponds to a repairable item

Computer and **LDU** indicate the status of the repairable items. The Computer column indicates the status of the items in the computer; the LDU column indicates the status of the items in the LDU. Exist means

<u>imposa</u>

that the item exists; Not Exist means that it does not exist.

Restore and Update refer to the operation to the items. Restore means to restore and Update means

to upgrade.

7. 3.2 Introduction to operation

Step 1: Select Tool\Maintenance, and the Guide will read back the screen configurations. The interface of the

repairing is as shown in Fig.7.25

Step 2: Select a file. Click the button _____ after Configure of LDU. Select the desired file in a window as

shown in Fig.7.26, say Config file of LDU.ini, and then click Open.

Open					<u>? ×</u>
Look jn:	🗀 6x12		•	🗕 🖻 💣 🎟	
My Recent Documents Desktop	config file of LI				
My Documents					
My Network Places	File <u>n</u> ame: Files of <u>type</u> :	config file of LDU.ini Configure File(*.INI)		•	<u>O</u> pen Cancel

Fig. 7.26 Selecting a desired file

Step 3: Select an operation. Under Update, click the box \square so that it shows \blacksquare .

Step 4: Press the button	<u>U</u> pdate	to run the operation you have selected, and you will see the
		to full the operation you have beleated, and you will bee the

window as shown in the Fig.7.27.

46

×

Update Progress

Task	State
HUB Address: F0 IP: 169.2	254.10.49
💎 UpdateConfigure of LDU	Sending
Current Progress:	
100%	
Main Progress:	
100%	
100%	
	Canaal
	<u>C</u> ancel

Fig. 7.27 Update Progress window

After the operation is over, you will see the window as shown in Fig.7.28. Press OK to exit.

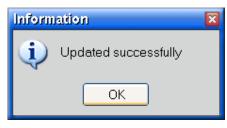


Fig. 7.28 Window showing Updated successfully