

Instruction Manual

(Professional full-color animation laser Instructions)

(RGB-15W)



This user manual contains important information about the safe installation and use of this product. Please read and follow the instruction carefully and keep this manual in a safe place for future reference.



Professional stage lighting

Getting Started:

Thanks for choosing our product, please read and follow the instruction carefully and keep this manual in a safe place for future reference.

This high power laser projector is made of Aluminum housing, with elegant appearance, energy-saving, long lifetime, suitable for indoor use.

The product is designed and produced strictly as per CE standard, in accord with international DMX512 protocol. One product can be controlled alone or many products can be controlled together for big shows, theaters, studios, KTV, walls of the hotel etc..

1. Security warning:

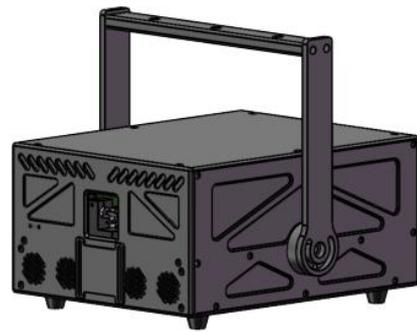
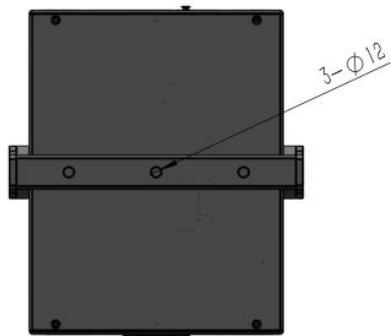
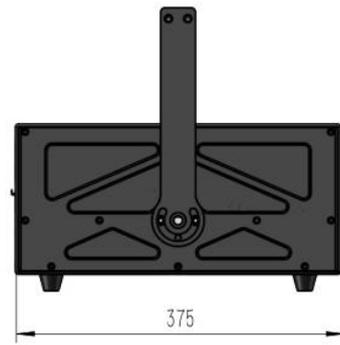
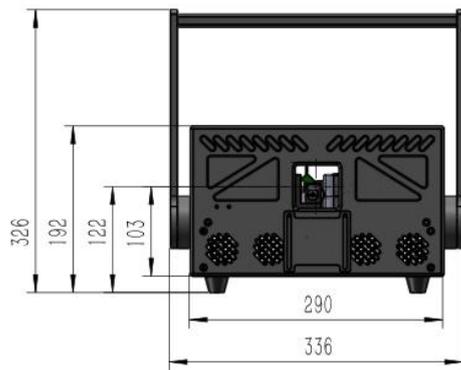
- 1、 When unpacking and before disposing of the carton, check if there is any transportation damage before using the product. Should there be any damage caused by transportation, consult your dealer and do not use the apparatus.
- 2、 Do not install the product or project the beam onto inflammable surfaces. Minimum distance is 5 M.
- 3、 The product is only intended for installation, operation and maintenance by qualified personnel.
- 4、 Product should install in a cool place. Keep away from the wall 50cm.
- 5、 Avoid direct exposure to the light from the lamp. The light is harmful to eyes.
- 6、 Keep the optical system clean. Do not touch the laser reflect lens with bare hands. Do not use any alcohol liquid or any other liquid to clean the optical system. Use medicinal absorbent cotton to clean it.
- 7、 Please do not attempt to dismantle and/or modify the product inner structure. Otherwise 1 year of warranty will get invalid.
- 8、 Before installation, ensure that the voltage and frequency of power supply match the power requirement of the product.

- 9、 It is essential that each product is correctly earthed and that electrical installation conforms to all relevant standards.
- 10、 Make sure that the power-cord is never crimped or damaged by sharp edges. Never let the power-cord come into contact with other cables. Only handle the power-cord by the plug. Never pull out the plug by tugging the power-cord.
- 11、 There is no user serviceable parts inside the product, do not open the housing and never operate the product with the cover removed.

二、 Technical parameters:

Description	parameters
Laser power	15W
Product name	RGB-15W animation laser lighting
Laser module red	638nm 4W
Laser module green	520nm 5W
Laser module blue	445nm 6W
Special effect	Different patterns of colorful beam, wave and line
Beam size	5*8mm
Connector In	ILDA、SD card、DMX、Mic
Connector Out	ILDA、DMX
Voltage & power	220Vac, 50/60Hz ($\pm 10\%$), 550W
Scanner	40Kpps
Operation temperature	-20 to 40°C
Net weight	20kg
Product size	375×336×192mm
Control mode	ILDA、SD card、Auto、DMX 512、Sound
Other features	Air cooling, RGB brightness adjustable individually, XY mirror image & pattern size adjustable, XY scanner system, optical components hermetically sealed, 10 Second warm-up time, low-power scanning electronic protection system, no special maintenance needed.
Laser Safety	keyed power switch, chain device, safety current protection for scanning failure.

三、Product size display:



Main function:

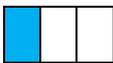
Auto-propelled mode: Through the ILDA Lock option on the LCD display panel, click ON/OFF to start the self-propelled program.

ILDA mode: When you use software to control the laser, connect the ILDA cable to the computer.

ILDA to RJ45: from the "ILDA Lock" option, select "on" mode, connect the signal cable.

DMX mode: connect the DMX cable to the lighting console, then ready to operate.

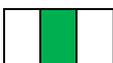
五、GS-PLAYER Instructions:



With the touch button knob and LCD menu display function, the menu operation is simple and easy to use.

Select the desired function by pressing a button knob.

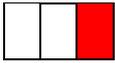
Confirm the selected function by pressing a key-click, and double-click to return to the main menu.



Link indication:

In DMX playback mode

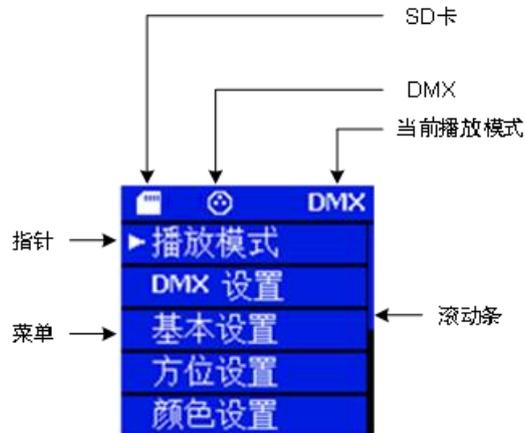
Out	The DMX daughter board is not connected
Slow flashing	There is a daughter board, but there is no DMX signal
Solid on	Normal DMX communication



Laser projector signal output

Out	no output
Solid on	Normal output

1.1 Interface Description:



1.2 Main Directory



- ZLDA
- Playback mode
- ZLDA setting
- Basic setting
- Orientation
- setting
- Color setting



- ZLDA
- Language: English
- Device information
- Exit the menu

Menu items	illustrate	Default value
【Playback mode】	Select the playback mode, there are [DMX512], [ILDA], [ZLDA], [TEST] and other playback methods	
【XXX Set up】	This is the setting for the selected playback mode	

【basic setting】	Basic settings of the system	
【Orientation setting】	Orientation parameter setting	
【Color settings】	The setting of the color parameters	
【language】	【Chinese】 Chinese Simplified Chinese English	【Chinese】
【Device information】	Information such as the version of the device	
【Exit the menu】	Save the settings and turn off the backlight	

1.3 Playback mode selection



Playback mode

DMX512√

ILDA PLAY ×

ZLDA PLAY ×

TEST PLAY ×

exit

Menu items	illustrate	Default value
【DMX512】	In DMX512 control mode, the program data comes from the TF card, corresponding to the ZLDA format file in the dmx directory.	×
【ILDA play】	ILDA playback, the program data comes from the ILDA format file in the ilda directory in the TF card.	×
【ZLDA play】	ZLDA playback, the program data comes from the ZLDA format file in the zlda directory in the TF card.	×
【TEST play】	TEST, the program data comes from the ZLDA format file in the test directory in the TF card.	×
【exit】	Exit the current menu and return to the previous menu.	

1.4 DMX setting



DMX setting

Start address 1

Timeout period 3

Manner V3

exit

Menu items	illustrate	Default value
【Start address】	The address from which the DMX data starts is 1~500.	1

【Timeout period】	Unit: seconds, if no DMX message is received within this time, the DMX connection is considered disconnected, and the output is turned off.	3
【manner】	[V3] Compatible with FB3 format control commands. 【CH26】 26-channel format control command. [V4] Compatible with FB4 format control commands.	V3
【exit】	Exit the current menu and return to the previous menu.	

1.5 ILDA setting



ILDA setting

Playback Mode Single
The current file 001
End Method Loop
exit

Menu items	illustrate	Default value
【Playback mode】	Single indicates that only a single file is played, corresponding to the ILDA format file in the ildacue directory. [List] indicates a playlist file, corresponding to an ILDA format file in the ildalist001~999 directory.	Single
【The current file】	The first few files currently played, from 001~999. If you select [Single] for playback mode, it means 001.ild~999.ild in the ildacue directory If you select [List] for playback mode, it indicates the files in the 001~999 directory in the ildalist directory	001
【How to end】	【Loop】 After the program is played to the end, it starts from the beginning. [Off] After the program is played to the end, turn off the laser output.	loop
【exit】	Exit the current menu and return to the previous menu	

1.6 ZLDA Set up



ZLDA setting

Playback Mode Single
The current file 001
End Method Loop
exit

Menu items	illustrate	Default
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		value
【Playback mode】	[Single] indicates that only a single file is played, corresponding to the ZLDA format file in the ildacue directory. [List] indicates a playlist file, which corresponds to a ZLDA file in the ildalist001~999 directory.	Single
【The current file】	The first few files currently played, from 001~999. If the playback mode is selected as Single, it means 001.zld~999.zld in the zldacue directory If you select [List] for playback mode, it indicates the files in the 001~999 directory in the zldalist directory	001
【How to end】	【Loop】 After the program is played to the end, it starts from the beginning. 【Off】 After the program is played to the end, turn off the laser output.	loop
【exit】	Exit the current menu and return to the previous menu	

1.7 TEST set up



TEST Set up
→output ×
The current file 001
Brightness 100
Overall dimensions 50
exit

Menu items	illustrate	Default value
【output】	Turn the laser's output on and off	×
【The current file】	The first few files currently played, from 001~999. Corresponding to 001.zld~999.zld in the test directory	001
【Overall dimensions】	0~100%	50
【brightness】	0~100%	100
【exit】	Exit the current menu and return to the previous menu	

1.8 Basic Settings

Basic setting
→Sending second rate 20
Color shift 3
Replay time 999
Frames per second 10
Playtime 2



Basic setting
→Language Chinese
Screen-off time 60
exit

Menu items	illustrate	Default value
【Scan rate】	The number of points per second output of the laser, in K, the range is 5~40K	20
【Color displacement】	The number of points of the color lag coordinates, unit points, range 0~15	0
【Replay time】	After the playback source is disconnected, the maintenance time before the program is closed, in milliseconds, in the range of 100~999ms	999
【Playtime】	The minimum playing time of each program, in seconds, is 1~20s	2
【Screen-off time】	After the interface is not operated, the screen off time, unit second, range 5~60s, 60s means that the screen is always on	30
【Animation mode】	1 - Play by Click, 2 - Play by Frame	1
【Animation speed】	Select Play by Dot, the parameter is valid. 1 is full speed, 2 is 1/2 speed, and 3 is 1/3 speed	1
【Frames per second】	Select Playback by Frame, this parameter is valid. The number of frames of the program played per second, the unit frame, the range is 1~40	10
【exit】	Exit the current menu and return to the previous menu	

1.9 Orientation settings



Orientation settings
 →Overall dimensions 50
 X size 100
 Y size 100
 X shear 0
 Y shear 0



Orientation settings
 →Z angle 0
 X position 0
 Y position 0
 X reversed X
 Y reversed X

Orientation settings
 →X Y exchange X
 exit



Menu items	illustrate	Default value
【Overall dimensions】	0~100%	50
【X size】	0~100%	100
【Y size】	0~100%	100
【X shear】	-100~100%	0
【Y shear】	-100~100%	0
【Z angle】	0~359	0
【X position】	-100~100%	0
【Y position】	-100~100%	0
【X reversed】	0 1	x
【Y reverses】	0 1	x
【Swap XY】	0 1	x
【exit】	Exit the current menu and return to the previous menu	

1.10 颜色设置

Color setting
 →brightness 100
 Red 100
 Green 100
 Blue 100
 starting point 0

Color setting
 →End point 100
 exit



Menu items	illustrate	Default value
【brightness】	0~100%	100

【red】	0~100%	100
【green】	0~100%	100
【blue】	0~100%	100
【starting point】	0~100%	0
【End point】	0~100%	100
【exit】	Exit the current menu and return to the previous menu	

1.11 Device Information



Exit the menu
 →Serial number 10000
 Firmware version 2.09
 Date(YM) 22.05
 upgrade
 Exit

Menu items	illustrate	Default value
【Firmware version】	X.XX indicates the major version number. The subversion number	---
【Date(YM)】	XX.XX indicates the month and year of the firmware	---
【Reset the parameters】	Parameters are factory reset	
【upgrade】	button and click Upgrade Firmware	
【exit】	Exit the current menu and return to the previous menu	

2.1 V3 version

The layout in the 16 channels is as follows (base 255):

passage	value	description	width
1	0-255 DMX mode	0-31 Turn off the light	8 Bit
		33-95 The first 4 channels	
		97-159 The first 8 channels	
		161-232 The first 12 channels	
		225-255 The first 16 channels	

2	0-255	Page index (9 pages in total)	0-15 page 1 17-31 page 2 33-47 page 3 49-63 page 4 65-79 page 5 81-95 page 6 97-111 page 7 113-127 page 8 129-255 page 9	8 Bit
3	0-255	Program Index (48 shows in total)	0-32 Turn off the light 33-35 program 1 37-39 program 2 .. - 221-223 program 48 225-255 ———	8 Bit
4	0-255	velocity	0-15 Default speed 17-31 Time out 33-255 25% ~ 200%	8 Bit
5	0-255	brightness	0% ~ 100%	8 Bit
6	0-255	size	0% ~ 100%	8 Bit
7	0-255	X size	-100% ~ 100%	8 Bit
8	0-255	Y size	-100% ~ 100%	8 Bit
9	0-255	Z angle	0~360 degrees	8 Bit
10	0-255	X location	0 = left, 128 = middle, 255 = right	8 Bit
11	0-255	Y location	0 = Top, 128 = Medium, 255 = Bottom	8 Bit
12	0-255	Visible points	0 ~ 100%	8 Bit
13	0-255	Scan rate	0-31 Default scan rate 33-223 6K ~ 29K 225-255 30K	8 Bit
14	0-255	retain		8 Bit
15	0-255	Color table	0-31 Original colors 33-223 Color table 225-255 white	8 Bit
16	0-255	retain	Reserved	8 Bit

2.2 V4 version

The 39-channel mode is shown below;

1. Place the GS888 in "Setup Mode". (Note that there is a two-second delay before initializing Setup Mode). Now limit the area where the laser may be projected.

2. Place the GS888 in "Play Mode". Perform actual performance performance and have the ability to broadcast programs.

During Setup Mode, channels 14 to 39 will ignore DMX/ART-NET changes.

During "playback mode", channels 2 to 13 will ignore DMX/ART-NET changes.

(base 255)

passage	value	description	width
1	0-255 Playback mode	0-150 Turn off the light 150-190 Set the mode 200-240 Playback mode 240-255 Turn off the light	8 Bit
2	0-255 Maximum brightness	Define the maximum brightness to use in playback mode (0 ~ 100%)	8 Bit
3	0--255 Test the graph	(1 = Test Program 1, 255 = Test Program 255)	8 Bit
4,5	0-65535 X size	Define the maximum width to be used in playback mode (-100 ~ 100%, 0 = 32768)	16 Bit
6,7	0-65535 Y size	Define the maximum height to be used in playback mode (-100 ~ 100%, 0 = 32768)	16 Bit
8,9	0-65535 X position	Define the horizontal position in playback mode (-100 ~ 100%, 0 = 32768)	16 Bit
10,11	0-65535 Y position	Define the vertical position in playback mode (-100 ~ 100%, 0 = 32768)	16 Bit
12,13	0-65535 Z rotation angle	Define the rotation angle in playback mode (0~ 360°)	16 Bit
14	0-255 Page index	Page index, 1 = page 1, 255 = page 255	8 Bit
15	0-255 Program Index	Program Index, (1 = 1st program, 255 = 255th program)	8 Bit
16	0-255 Playback speed	(0 = Original Speed, 1 - 255 = 1% ~ 255%)	8 Bit
17	0-255 brightness	(0 ~ 100%)	8 Bit
18,19	0-65535 size	(0 ~ 100%)	16 Bit
20,21	0-65535 X size	(-100 ~ 100%, 0 = 32768)	16 Bit
22,23	0-65535 Y size	(-100 ~ 100%, 0 = 32768)	16 Bit
24,25	0-65535 Z angle	Rotation Angle(0~ 360°)	16 Bit
26,27	0-65535 Z rotation	Rotation speed -60 ~ 60 Rpm (0 = original position, 1 ~ 32767 = -100% ~ -1% speed, 32768 = save stationary without rotation, 32769 ~ 65535 = 1% ~ 100% speed)	
28,29	0-65535 X position	(-100 ~ 100%, 0 = 32768)	16 Bit
30,31	0-65535 Y position	(-100 ~ 100%, 0 = 32768)	16 Bit
32	0-255 Scan rate	(5k ~ 30K)	8 Bit
33	0-255 Red light brightness	(0 ~ 100%)	8 Bit
34	0-255 Green light brightness	(0 ~ 100%)	8 Bit
35	0-255 Blue light brightness	(0 ~ 100%)	8 Bit
36	0-255 RGB color change	(0 = Original Color, 1-255 = 0 ~ 100% Color Change)	8 Bit
37	0-255 Start showing the dots	(0 ~ 100%)	8 Bit

38	0-255	End the display point	(0 ~ 100%)	8 Bit
39	0-255	Strobe	0 = Strobe off 1-255 = 1 to 20 Hz	8 Bit

2.3 26 Channel version (255)

passage	value	description	width
1	0-255	Page index page index, 0~3 Turn off the light 4~7 Page 1 8~11 Page 2 12~15 Page 3 252~255 page 63	8 Bit
2	0-255	Program Index 0~3 Program Index 4~7 Program 1 8~11 Program 2 12~15 Program 3 252~255 63 program	8 Bit
3	0-255	Playback speed (0 = 原始速度, 1 – 255 = 1% ~ 255%)	8 Bit
4	0-255	brightness (0 ~ 100%)	8 Bit
5,6	0-65535	size (0 ~ 100%)	16 Bit
7,8	0-65535	X size (-100 ~ 100%, 0 = 32768)	16 Bit
9,10	0-65535	Y size (-100 ~ 100%, 0 = 32768)	16 Bit
11,12	0-65535	Z-angle Rotation Angle(0~ 360°)	16 Bit
13,14	0-65535	Z rotation Rotation speed -60 ~ 60 Rpm (0 = original position, 1 ~ 32767 = -100% ~ -1% speed, 32768 = save stationary without rotation, 32769 ~ 65535 = 1% ~ 100% speed)	
15,16	0-65535	X position (-100 ~ 100%, 0 = 32768)	16 Bit
17,18	0-65535	Y position (-100 ~ 100%, 0 = 32768)	16 Bit
19	0-255	Scan rate (5k ~ 30K)	8 Bit
20	0-255	Red light brightness (0 ~ 100%)	8 Bit
21	0-255	Green light brightness (0 ~ 100%)	8 Bit
22	0-255	Blue light brightness (0 ~ 100%)	8 Bit
23	0-255	RGB color change (0 = Original Color, 1-255 = 0 ~ 100% Color Change)	8 Bit
24	0-255	Start showing the dots (0 ~ 100%)	8 Bit
25	0-255	End the display point (0 ~ 100%)	8 Bit
26	0-255	Strobe 0 = Strobe off 1-255 = 1 to 20 Hz	8 Bit

3.1 DMX File structure

DMX plays files in the DMX directory, and the file name range is P001C001.zld~P255C255.zld. P stands for Page and C stands for Cue.

In the 16-channel command of DMX, the Page index and Cue Index correspond to P001C001.zld~P009C048.zld, and a total of $9*48=432$ files are supported.

In the 39-channel command of DMX, Pages and Cues correspond to P001C001.zld~P255C255.zld, which supports a total of $255*255=65025$ files.

In DMX playback, if you can't find the files corresponding to Pages and Cues, turn off the laser output.

名称	修改日期	类型	大小
P001C001.zld	2021/11/16 10:25	ZLD 文件	4 KB
P001C002.zld	2021/11/16 10:25	ZLD 文件	2 KB
P001C003.zld	2021/11/16 10:25	ZLD 文件	2 KB
P001C004.zld	2021/11/16 10:25	ZLD 文件	4 KB
P001C005.zld	2021/11/16 10:25	ZLD 文件	2 KB
P001C006.zld	2021/11/16 10:25	ZLD 文件	3 KB
P001C007.zld	2021/11/16 10:25	ZLD 文件	833 KB
P001C008.zld	2021/11/16 10:25	ZLD 文件	3 KB
P001C009.zld	2021/11/16 10:25	ZLD 文件	1,566 KB
P001C010.zld	2021/11/16 10:25	ZLD 文件	2,111 KB
P001C011.zld	2021/11/16 10:25	ZLD 文件	721 KB
P001C012.zld	2021/11/16 10:25	ZLD 文件	136 KB
P001C013.zld	2021/11/16 10:25	ZLD 文件	4,321 KB
P001C014.zld	2021/11/16 10:25	ZLD 文件	21 KB
P001C015.zld	2021/11/16 10:25	ZLD 文件	2 KB
P001C016.zld	2021/11/16 10:25	ZLD 文件	794 KB
P001C017.zld	2021/11/16 10:25	ZLD 文件	511 KB
P001C018.zld	2021/11/16 10:25	ZLD 文件	4,679 KB
P001C019.zld	2021/11/16 10:25	ZLD 文件	3,000 KB

3.2 ZLDA File structure

There are two types of ZLDA playback, one is [Single] and the other is [List]. Corresponding to the zldacue and zldalist directories, respectively.

名称	修改日期	类型	大小
cue	2022/5/25 15:18	文件夹	
list	2022/5/25 15:22	文件夹	

1. Single playback mode

In the zldacue directory, the file name range is 001.zld~999.zld, and the file name corresponds to [Current File] in the menu, a total of 999 files are supported. In ZLDA single mode playback, if the corresponding file cannot be found, the laser output is turned off.

名称	修改日期	类型	大小
001.zld	2021/11/16 10:25	ZLD 文件	2 KB
002.zld	2021/11/16 10:25	ZLD 文件	2 KB
003.zld	2021/11/16 10:25	ZLD 文件	4 KB
004.zld	2021/11/16 10:25	ZLD 文件	2 KB
005.zld	2021/11/16 10:25	ZLD 文件	3 KB
006.zld	2021/11/16 10:25	ZLD 文件	833 KB
007.zld	2021/11/16 10:25	ZLD 文件	3 KB
008.zld	2021/11/16 10:25	ZLD 文件	1,566 KB
009.zld	2021/11/16 10:25	ZLD 文件	2,111 KB
010.zld	2021/11/16 10:25	ZLD 文件	721 KB
011.zld	2021/11/16 10:25	ZLD 文件	136 KB
012.zld	2021/11/16 10:25	ZLD 文件	4,321 KB
013.zld	2021/11/16 10:25	ZLD 文件	21 KB
014.zld	2021/11/16 10:25	ZLD 文件	2 KB
015.zld	2021/11/16 10:25	ZLD 文件	794 KB
016.zld	2021/11/16 10:25	ZLD 文件	511 KB

1. List playback mode

In the zldalist directory, you can build a total of 999 directories of 001~999, each directory is used as a list, and the corresponding file name corresponds to the selection of [current file] in the menu. In the zldalist001 directory, the file name ranges 001.zld~999.zld. A play.txt file is also required to indicate the order of playback.

名称	修改日期	类型	大小
000.zld	2021/11/16 10:25	ZLD 文件	4 KB
001.zld	2021/11/16 10:25	ZLD 文件	2 KB
002.zld	2021/11/16 10:25	ZLD 文件	2 KB
003.zld	2021/11/16 10:25	ZLD 文件	4 KB
004.zld	2021/11/16 10:25	ZLD 文件	2 KB
005.zld	2021/11/16 10:25	ZLD 文件	3 KB
006.zld	2021/11/16 10:25	ZLD 文件	833 KB
007.zld	2021/11/16 10:25	ZLD 文件	3 KB
008.zld	2021/11/16 10:25	ZLD 文件	1,566 KB
009.zld	2021/11/16 10:25	ZLD 文件	2,111 KB
010.zld	2021/11/16 10:25	ZLD 文件	721 KB
play.txt	2022/5/25 18:35	文本文档	1 KB

The content of play.txt is as shown below, and the number and order of files can be customized. Files can also be reused. Each file name is required to occupy one line, and there can be no other content except for the 001~999 file name.

In ZLDA list mode playback, if the corresponding file cannot be found, the laser output is turned off.



3.3 ILDA File structure

It's similar to ZLDA playback, but in *.ild file format.

3.4 TEST File structure

In the test directory, the file name range is 001.zld~999.zld, and the file name corresponds to [current file] in the menu, a total of 999 files are supported. You can put some files that are only used for testing in the change directory, and if you can't find the corresponding file in TEST mode, turn off the laser output.

A screenshot of a file explorer window titled "F:\TEST". The window displays a list of files with the following columns: "名称" (Name), "修改日期" (Modification Date), "类型" (Type), and "大小" (Size). The files listed are 000.zld through 010.zld, all with a modification date of 2021/11/16 10:25. The types are "ZLD 文件" and the sizes range from 2 KB to 2,111 KB.

名称	修改日期	类型	大小
000.zld	2021/11/16 10:25	ZLD 文件	4 KB
001.zld	2021/11/16 10:25	ZLD 文件	2 KB
002.zld	2021/11/16 10:25	ZLD 文件	2 KB
003.zld	2021/11/16 10:25	ZLD 文件	4 KB
004.zld	2021/11/16 10:25	ZLD 文件	2 KB
005.zld	2021/11/16 10:25	ZLD 文件	3 KB
006.zld	2021/11/16 10:25	ZLD 文件	833 KB
007.zld	2021/11/16 10:25	ZLD 文件	3 KB
008.zld	2021/11/16 10:25	ZLD 文件	1,566 KB
009.zld	2021/11/16 10:25	ZLD 文件	2,111 KB
010.zld	2021/11/16 10:25	ZLD 文件	721 KB

4.1 Upgrade with TF card

1. Prepare the documents

Put the upgrade file into the root directory of the TF card, the file name is ZQS05*****.zqb, the file name prefix "ZQS05" and the extension ".zqb" are required, otherwise the device will not recognize it.

> U 盘 (F:)

名称	修改日期	类型	大小
CONFIG	2023/7/9 20:19	文件夹	
DMX	2023/7/9 20:19	文件夹	
ILDA	2023/7/9 20:19	文件夹	
TEST	2023/7/9 20:19	文件夹	
ZLDA	2023/7/9 20:19	文件夹	
ZQS05-V2.21.zqb	2022/10/14 13:20	ZQB 文件	111 KB

2. Upgrade your device

Insert the TF card, start the device, in the device information menu, find the upgrade, click to enter the upgrade interface, if the firmware is invalid, you cannot enter the upgrade interface.

Please carefully confirm the version information before upgrading, click OK to confirm the final upgrade, and do not power off during the upgrade process, if it happens, the firmware will be lost.

<p>Device information</p> <p>→Firmware version 2.05</p> <p>Date (YM) 23.11</p> <p>Reset the parameters ×</p> <p>upgrade</p> <p>Exit</p>	<table border="1" style="background-color: #000080; color: white;"> <tr><td>设备信息</td></tr> <tr><td>▶ 固件版本 2.05</td></tr> <tr><td>日期(YM) 23.11</td></tr> <tr><td>重置参数 ×</td></tr> <tr><td>升级</td></tr> <tr><td>退出</td></tr> </table>	设备信息	▶ 固件版本 2.05	日期(YM) 23.11	重置参数 ×	升级	退出	<p style="text-align: right;">upgrade</p> <table border="1" style="background-color: #000080; color: white;"> <tr><td>升级</td></tr> <tr><td>▶ 旧版本 2.09</td></tr> <tr><td>新版本 2.10</td></tr> <tr><td>确定</td></tr> <tr><td>退出</td></tr> </table> <p style="text-align: right;">→Older versions 2.09</p> <p style="text-align: right;">New version 2.10</p> <p style="text-align: right;">Confirm</p> <p style="text-align: right;">Exit</p>	升级	▶ 旧版本 2.09	新版本 2.10	确定	退出
设备信息													
▶ 固件版本 2.05													
日期(YM) 23.11													
重置参数 ×													
升级													
退出													
升级													
▶ 旧版本 2.09													
新版本 2.10													
确定													
退出													

六、Safety instructions

For safety reasons, please follow the instructions below:

- ◆ Do not disassemble or alter the unit.
- ◆ Do not drop flammable liquids, water and metals into the machine.

Avoid using the machine in the following situations:

- ◆ The relative humidity is too high.
- ◆ Concussive or collision environments.
- ◆ The room temperature is above 40 degrees Celsius and the room temperature is below 0 degrees Celsius.

caution:

- ◆ If you encounter serious difficulties in use, please stop using it immediately and contact the agent or manufacturer for inspection.
- ◆ Never disassemble the unit, there are no repair parts inside.
- ◆ Please ask for an inspection by a person who meets the specifications.