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

Security   Warning

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.

- ❖ This equipment is not waterproof, keep it from rain, moisture and liquids.
- ❖ Do not install the product or project the beam onto inflammable surfaces. Minimum distance is 5 M.
- ❖ The product is only intended for installation, operation and maintenance by
- ❖ qualified personnel.
- ❖ Product should install in a cool place. Keep away from the wall 50cm
- ❖ Avoid direct exposure to the light from the lamp.The light is harmful to eyes
- ❖ Keep the optical system clean.Do not touch the laser reflect lens with bare hands.Do

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Lierderholthuisweg 27
8144 RG Lierderholthuis
The Netherlands / Holland

not use any alcohol liquid or any other liquit to clean the optical system.Use medicinal absorbent cotton to clean it.

❖ Please do not attempt to dismantle and/or modify the product inner structure.Otherwise,would not provide 1 year of free warranty.

❖ Electrical connection must only be carried out by qualified personnel.

❖ Before installation,ensure that the voltage and frequency of power supply match the power requirement of the product.

❖ It is essential that each product is correctly earthed and that electrical installation

❖ conforms to all relevant standards.

❖ Do not connect this device to any other types of dimmer apparatus.

❖ 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

❖ There is no user serviceable parts inside the product,do not open the housing and never operate the product with the cover removed.

If you have any questions,don't hesitate to consult our dealer or manufacturer.

DANGER
LASER RADIATION AVOID EXPOSURE
TO BEAM CLASS 3B LASER PRODUCT

XS2500 laser projector adopts embedded technology which enable laser moving,scaling,rotating,turn spin and gradually draw,animation,text,broken pen,wave laser effect can be achieved easily.

Unique functions as following:

1. Through DMX-512 Controller,you can select auto or sound control mode or to play built-in laser effects.

2.Through menu to set up scanner speed,laser color,X opposition,Y opposition

3.Unique sound control technology.Laser effect can response according to sound rhythm.

Product technical parameters

Item NO: XS2500

1.Voltage:AC90~240V 50~60HZ±10%

2.Power consumption:80W

3.Laser source:Solid semi-conductor laser diode.

4.Laser power /wavelength:　　1x 500mW　　　　Red　　(638nm)

　　　　　　　　　　　　　　1x　800 mW　　　Green　　(520nm)

　　　　　　　　　　　　　　1 x　1200mW　　　Blue　　(445nm)

5.Colors:RGB full color

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6.Modulating signal: 0~30K Analogue

7.Laser Patterns:256 pieces built-in laser patterns

8.DMX Channel:12CH

9.Scanner system: 30 kpps

10.Control signal:DMX-512 international standard signal

11.Control mode:Music,auto,master-slave and DMX-512l,ILDA Control

12.Cooling system:fan

13.Operation environement :Indoor

14.Operation temperature:-10°C～40°C

15. Net Weight : 8 kg

16.Dimension   Size : mm

**1. ILDA control signal connection method:**
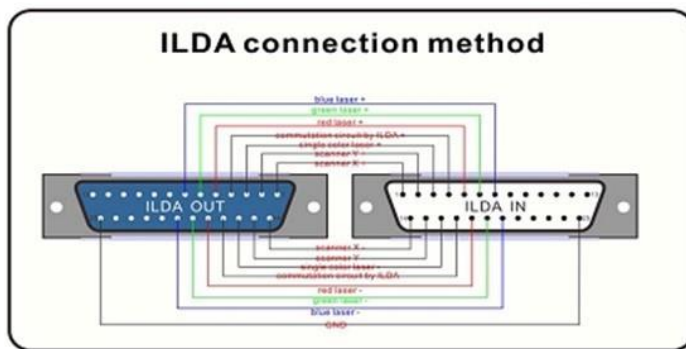
Connection built through product male/female DB 25 degree socket. Like above picture. In addition to the above connections, ILDA signal cannot be connected in any other way.

Connect ILDA signal, the lighting fixtures will automatically shift   to   ILDA working mode. This lighting fixtures ILDA signal cable connection way is compliant to international standard.

2. **DMX Connection method**
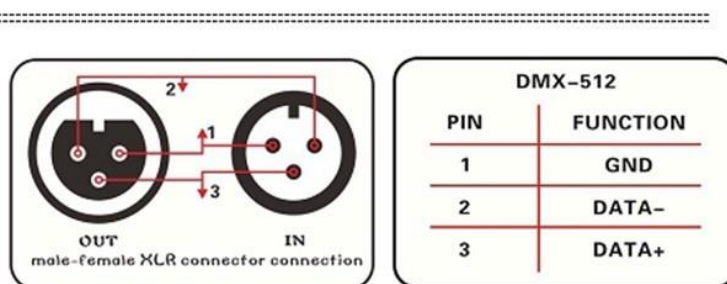
DMX control signal connection must be made with a two core-screened cable,with each core having at least a 0.5mm diameter. Please use the product's signal cable OUT and IN as connection. The signal OUT and IN cables connection shown as above picture.

(OUT)   (IN)
Two Core Shield male-female XLR connection
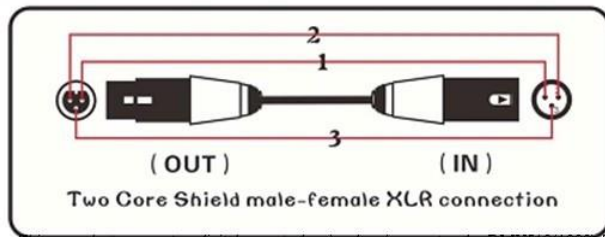
This product accepts digital control signals in protocol DMX512(1990).The amount of lighting fixtures connected in parallel is no more than 32.Connect the DMX controller's Output to the first lighting fixture's Input cable with a 2 core XLR signal cable(Shown as above),connect the first lighting fixture's Output cable to the second lighting fixture's Input cable and connect the rest light fixtures in the same way.Eventually,connect the last lighting fixture's Output cable to a DMX terminator

Under DMX-512 signal control mode,the last lighting fixture's DMX Output must be connected with a DMX terminator.This prevents electrical noise from disturbing and corrupting the DMX control signals.The DMX terminator is simply an XLR connector with a 120(ohm) resistor connected across pins 2 and 3,which is then plugged into the output socket on the last projector in the chain.Then connections are illustrated above.

Note: Please do not connect the signal cable OUT and IN in other way except above shown.

4. SD card laser operating system

Operating Buttons：

Mode   Up   Down   Enter
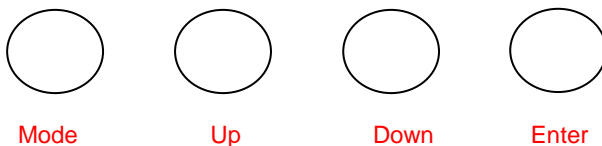
MODE： Change modes

UP、DOWN：When it is at PRG and ILD mode, just change files. When it is at sound mode, just change the rhythm.

Press and hold the Enter key for more than 3 seconds to save the current mode.

Working Mode：

Prg Mode ：Play PRG FILES. The second line displays the playing list name. Press"UP"and"DOWN"to change playing list.

ILDA Mode：Play ILDA FILES one by one.(Format is ILD），The second line displays the playing list name of ILDA Files，Press"UP"and"DOWN"to change playing list.

Audio Mode：Play programs according to the music. Press"UP"and"DOWN"to change the rhythms.

Auto Mode：Play programs automatically。

Dmx Mode：The first line shows the DMX IP, the second show the receiving status of the controller.

DMX Channel Details：

Description		
CHANNEL	NUMBER	FUCTION
1 Modes	0-73	Light closing
	74-110	PRG mode
	111-147	ILD mode
	148-184	Audio mode
	185-221	Auto Mode
	222-255	Hand-operating
2 Pictures/Files	0-255	Hand-operating / PRG/ILD mode
		Pictures changing , changed with each two numbers. / Choosing files
3 Flash/Files	0-10	Without flash
	11-199	AUTO Flash
	200-255	Sound Flash
		Files playing
4 X Direction	0-125	Adjust the position
	126-185	Auto LEFT AND RIGHT MOVING
	186-225	Auto jump moving circles between left and right
	226-245	Auto jump in disorder
	246-255	Audio jump in disorder
5 Y Directiom	0-125	Adjust position by hand
	126-185	Auto moving in circles between up and down
	186-225	Auto jumping in circles between up and down
	226-245	Auto jump in disorder
	246-255	Audio jump in disorder
6 Zooming	0-10	No zooming
	11-100	Adjust size by hand
	101-150	enlarge
	151-200	Zoom out
	201-255	Zoom in circles
7 X-axis rotating	0-10	No rotation
	11-110	Adjust manually
	111-255	Auto rotation
8 Y-axis rotating	0-10	No rotation
	11-110	Adjust manually
	111-255	Auto rotation
9 Rotating with center point	0	No rotation
	1-180	Adjust manually
	181-217	Auto clockwise rotation
	218-255	Auto counter clockwise rotation
10 Drawing	0-10	No change
	10-74	Manual operation
	75-104	Auto（up）
	105-144	Auto（down）
	145-184	Auto in circles
	185-224	fore-and aft line in circle（up）
	225-255	fore-and aft line in circle（down）
11 wave	0-9	No speed
	10-199	speed
	200-255	range
color		
	0-16	White
	17-33	Red
	34-50	Green
	51-67	Blue
	68-84	Yellow
	85-101	Purple

		102-118	Cyan
12	RGB	119-135	White red green blue four colors subsection
		136-152	Blue Yellow Purple Cyan four colors subsection
		153-169	White red green blue purple cyan seven colors subsections
		170-186	White red green blue four color subsection moving
		187-203	Blue Yellow Purple Cyan four colors subsection moving
		204-220	Blue yellow purple cyan four color moving
		221-237	Display according to breakpoint
		238-255	Change c
	RGY	0-27	White
		28-55	Red
		56-83	green
		84-111	Yellow
		112-139	Red green two colors subsection
		140-167	White red green yellow four color subsections
		168-195	Red green two colors moving 红绿双色流动
		196-223	White red green yellow four colors moving
		224-255	Changing color with music
13	Display mode	0-63	Normal display
		64-127	Bright spot display
		128-191	Display in subsection
		192-255	Display dots

Remarks：

1.Only support FAT32 SYSTEM，if use new SD CARD, Please format to FAT32.

2.This system only support short name of files,8 number letters name at most and 3 number letters extension at most.(support letters, numbers, underline and so on)

3.SD card only for special use, don't mix with other files. Support 20 files at most, each file support 256 ILDA files and 10 PRG files at most.

4.PRG Program List：you can program with text to edit program with extension .PRG.The list is composed of file name, playing speed and playing times, then with Ishow ID CODE(i),block off with", ".Each line only support one program. For example: file1.ild、file2.ild、file3.ild 3 files，file1.ild playing speed is 12K，playing time is 3 times，file2.ild playing speed is 20K，playing time is 1 time, and file2 use ishow to edit，file3.ildplaying speed is 18K，playing time is 4times，Then prg1.prg contents are as follow：

File1.ild,12,3

File2.ild,20,1,i

File3.ild,18,4

When build a new file, you need to create a .PRG file with the same name of the new file in this new file. And then put all the programs in the .PRG file. The playing speed is the speed of "ILDA Mode"。For example，under aurora file，create a aurora.prg file。After add ILDA file，need to put this file to PRG List.

◆**Troubleshooting**

Problems	Action

The product doesn't switch on	Power connection is not correct.Re-connect the power.
	Power supply is damaged or abnormal.Call a qualified personnel to fix it.
	Connection of control board is not correct.Call a qualified personnel to fix it.
The product can turn on,but no light coming out.	Control mode is wrongly setting up.Resetting it according to instruction book
	Control section is damaged.Call a qualified personnel to fix it.
The beam appears dim	The product is too hot.Take ventilation measures to make it cool.

Note: This product is under warranty for 1 year(From the date of delivery), 1 years after can provide paid maintenance services.But if it is because of natural disasters or user's operation not according to manual.We won't provide warranty.