
EVENT LIGHTING

DASDI Laser

USER MANUAL



For safety, please read this user manual carefully before initial use.

Event Lighting reserves the right to revise the manual at any time. Information and specifications within this manual are subject to change without notice. Event Lighting assumes no liability or responsibility for any errors or omissions. Please consult Event Lighting for any clarification or information regarding this item.

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V1.0

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Safety Instructions

WARNING

- Do not open this device, there is no user-serviceable parts inside. Risk of electric shock.
- Do not look at the light source when the device is on.
- **CAUTION:** This unit's housing may be hot during and after operation.
- Install this device in a location with adequate ventilation, at least 20 inch (50 cm) from adjacent surfaces.
- Do not leave any flammable material within 50 cm of this unit while operating or connected to power.
- Use a safety chain when mounting this device overhead.
- Do not operate this device outdoors or in any location where dust, excessive heat, water, or humidity may affect it.
- Do not operate this device if the housing, lenses, or cables appear damaged.
- Do not connect this device to a dimmer or rheostat.
- **ONLY** connect this device to a grounded and protected circuit.
- **ONLY** use the hanging bracket to carry this device.
- In case of a serious operating problem, stop using immediately.
- The maximum ambient temperature is 104° F (40° C). Do not operate this device at higher temperatures.
- Do not point this laser toward people or crowds.
- Do not point this laser toward any area where you or the operator do not know where the beams are being directed.
- Use aperture cover whenever not in use.
- Use the key to lock the laser to avoid unauthorised use.
- **Avoid direct eye contact with laser light. Never intentionally expose your eyes or others to direct laser light.**
- **This laser product can potentially cause instant eye injury or blindness if laser light directly strikes the eyes.**

Power Input

This device has an auto-switching power supply work with input voltage range of 100~240 VAC, 50/60 Hz.

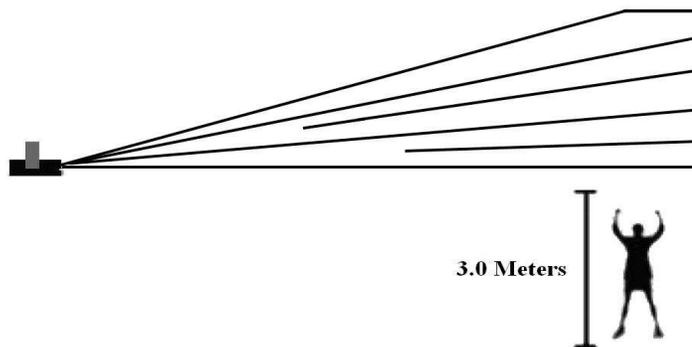
Product Installation

This device can be mounted in many orientations provided each individual device is secured by the use of correct mounting bracket.

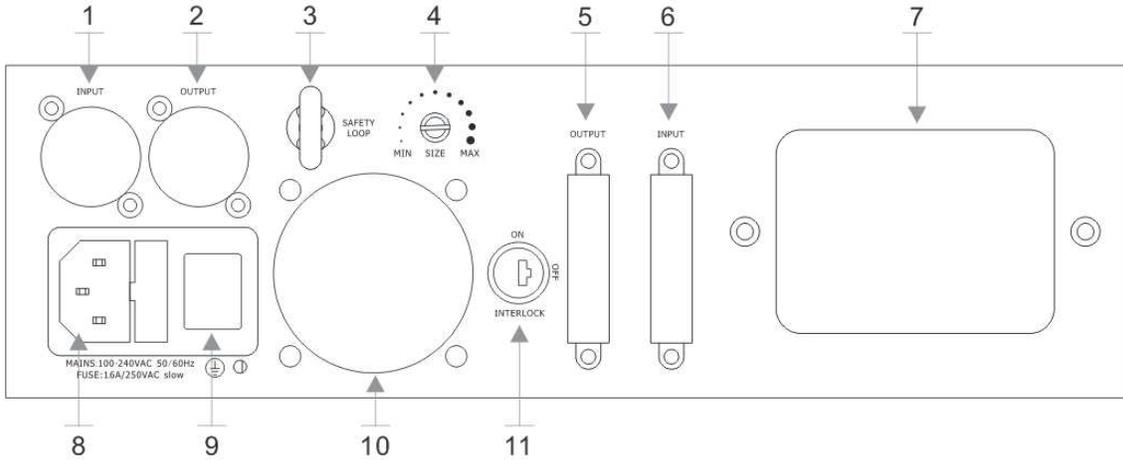
This device should be directed above the heads of people and do not direct it toward the line of sight of people

Refer to the diagram below

Use a safety chain when mounting this device overhead.



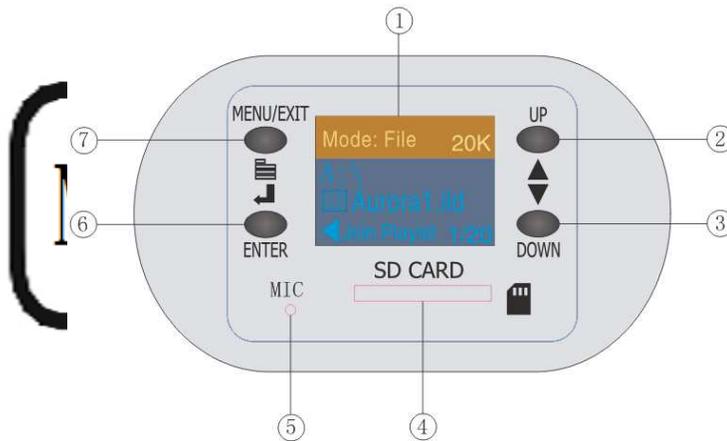
Rear Panel



1	DMX input	3PIN Male XLR port, using for DMX
2	DMX output	3PIN Female XLR port, using for DMX
3	Safety Loop	Attach the safety cable
4	SIZE	The Size of X and Y axis adjustment
5	ILDA OUTPUT	Standard ILDA DB25 Output (through)
6	ILDA INPUT	Standard ILDA DB25 Input
7	LCD control Panel	Intelligent LCD control panel of the system
8	Mains input	With socket and integrated fuse holder
9	Switch	Switch on and off the power
10	Cooling fan	Cooling and never cover this fan outlet
11	Key Switch	To turn the laser effect (laser diode) ON/OFF. Be sure that only authorized operator hold the key

CONTROL BOARD OPERATION

Display Panel Instructions



Picture1

1.Display Window 2.UP 3.DOWN 4.SDCARD 5.MIC 6.ENTER 7.MENU/EXIT

Function Description of Main Display Screen



Picture2

- 1 .Present Play Mode
2. Opening Folder (A:\ shows that it under the SD card root directory)
3. Icons of The folders' types
 -  Folder
 -  Picture file .ida format
 -  Programs List files .ist format
4. Operating Prompts, add the current file to play list (only the ida format is effective)
5. Sign of opening sound-active function, only if you turn to Sound-active mode)
6. Current working speed (Only under SD browse mode with Built-in effect mode is effective)
7. choosing the file or file' s name
8. Total number of files and which file is chosen currently.

Play Mode

1. Seven combined play modes of this machine:

- The mode of SD card file browsing
- The mode of SD card play list
- The mode of Built-in effect
- The mode of DMX control
- The mode of SD card file browsing and sound-active
- The mode of SD card play list and sound-active
- The mode of Built-in effect and sound-active

2. The choices of Play Mode

- Press the "menu" under main screen, it will show the menu of Picture 3, then press "up" and "down" to choose mode Return white says selected
- Press the "enter" it will show the Picture 4, "up" and "down" to choose what you want, and next press the "enter", "✓" presents your current play mode.

3. Sound-active combination mode

- As picture 4, choose "sound control" and press "enter". then it will show sound-active mode with your last step. ("✓" presents that the sound-active mode is effective.)

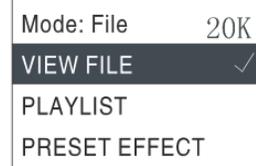
4. Setting to Host

- As picture 4, choose "Setting to Host" and press "enter", then the machine is set be as the Host machine. you can connect other machine which is not host machine with ILDA interface, (when the machine has been set be as host machine, it cannot be receive the signal of ILDA interface.)

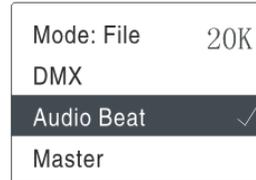
5. Setting finished, press the "exit" and return the main screen.



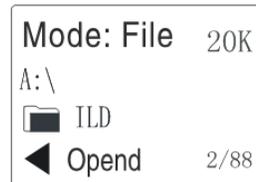
Picture3



Picture4



Picture5



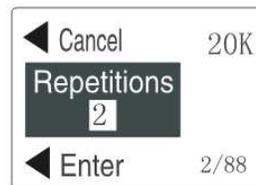
Picture6



Picture7



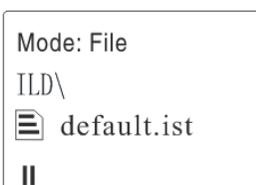
Picture8



Picture9



Picture10



Picture11

File's operating

1. At the main screen of "SD card browsing mode" and "SD card play list mode", press "up" and "down" to choose the file.

2. When you choose a file, please press the "enter" then you can open this file, look the picture 6, after opening the ILD Folder, you will see the picture 7.

3. CDUP, two way

- press "Menu" at the main screen, it will show the menu, then press "down" to choose "upper directory". then Press "enter".
- At the main screen, press the "down" to last file, look picture8, then press "enter".

4. Edit play list

- After choosing the ida file, then press "enter", it will show "setting the playing time"

as in the picture 9, press "up" will add the time and "down" will reduce the time" (Playing time is the times of the program has been played)

- After setting the playing time, press the "enter", it will show "add successful" presents that it has been added to the profile list" Profile list. 1st" (Note: The machine will create a new profile list automatic under every directory, and the file name is "default .ist")

5. Play and Stop

This function only under the play list mode will be effective. After choosing one file of the playing list, press "enter", it will open. The machine will play as the edited programs, press "enter", it will stop playing. The picture will stopped, Picture 10 shows the "stop" and "play".

Picture 11 shows that it is playing. When press "up" and "down", it will stop and show next program.

Pictures' Setting

At the main screen press "menu" it will show a item of "Pictures" Setting", then press "enter" , you will see many orders, do as below (picture 12):

- 1.Setting Image Reverse, under "Pictures' Setting", choose "X mirror image" or "Y mirror image", and press "enter", the picture will be reversed in X or Y direction , then press the "exit", it will Automatic keep your Setting.
- 2.Setting the Scanning speed, under "Pictures" "Setting", Choose "Scanning speed", press "enter", you will see the screen As picture 13 Press "up" and "down" to change the Scanning speed. After finished the setting, Press "exit", it will automatic keep your setting.(Note: Under The play list Mode, it is no effective.)
- 3.Setting the Playing speed(The speed of pictures moving), under "Pictures Setting", choose "Playing Speed" ,like the picture 14, Press "up" and "down" to change the playing speed.(The larger of the number, the slower of the speed). After finished the setting, Press "exit",it will automatic keep your setting.(Note: Under The play list Mode and Built-in effect mode, it is no effective.)

Pictures' Setting

This Machine has some effects for user's option (Default is two),operation as below:

- 1.At the main Screen which Under Auto mode, Press "enter"
- 2.Press "down", choose "effect select"
- 3.Press "enter" ,it will show the menu of effects .(See picture 15)
- 4.Press "Up" or "Down" to choose the effect and press the "enter" it will show the effect which has "✓", if several items has "✓",the programs will be played by turns.

Setting the Sensitivity of Sound-Active

At the Main Screen, Press the "menu",and choose "Sensitivity of Sound-Active", and then "enter", it will show the items of Sensitivity, Press "up" and "down" to change the Sensitivity, The number 87 is the most sensitivity, and number 0 represents that it cannot accept sounds.

Setting the Rotating

Note: must under hardware Configuration Rotating is the rotating of stepping motor (the machine has rotating gratings will be effective), at the main screen, press "menu", and choose "Setting the Rotating", Press the "enter". It will show the order of Setting the rotating, as picture 16:

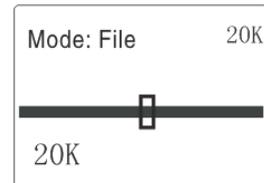
- 1.Setting the Rotating speed, press "up", it will add the speed to 255,it stop rotating, it is 0,turn "down" ,you can see it.
- 2.Setting the direction of Rotating, Press "enter", it will make the stepping motor wrap around. After finished, Press "exit" ,return to main Screen, keep the setting automatically.

DMX instruction

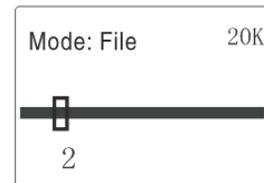
- 1.Setting the DMX address: at main Screen of DMX mode, press "up" or "Down" to choose the DMX address. the system will keep your address automatically. See picture17.



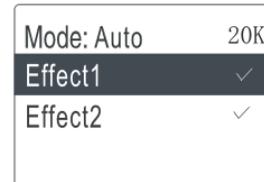
Picture12



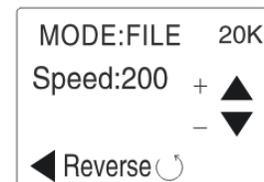
Picture13



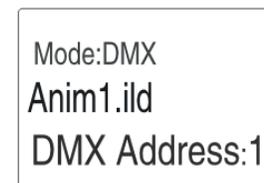
Picture14



Picture15



Picture16



Picture17

DMX CHANNELS DESCRIPTION:

CH1	Operating Mode Selection	0	Blackout
		1-40	SD Browse Mode
		41 - 80	SD List Mode
		81-100	SD Browse Mode + Voice
		101-120	SD Browse Mode + Voice
		121-160	Built in Effects
		161-200	Built in Effect + Voice
		201 -240	DMX Programming Mode
		241-255	DMX Programming Mode + Voice
CH2	Sound Sensitivity Control	0-255	
CH3/14	Pattern Mode Selection 1st/2nd	0	Off Light
		1-50	out of bounds through the mode; When the channel value is less than 5, the pattern size will be reduced.
		50-100	out of bounds for the exhumation mode, when channel values less than 55, the size of the pattern will be reduced
CH4/15	Pattern Selection 1st / 2nd	0-255	2 for a number of built-in effects mode pattern 3-channel SD card mode, a logarithmic transformation to a folder, 0: Select the root recorded on day
CH5/16	Pattern Scaling	0-63	static size adjustment
		64-255	dynamic size effect, every 32 values for some, each piece is different from the size of the effect, in the same paragraph, the greater the value, the faster the action
CH6/17	Y-axis rotation	0-63	static rotation adjustment
		64-255	the dynamic effect of the rotation every 32 values for some, each for different rotation effects, in the same paragraph, the greater the value, the faster the action
CH7 / 18	Horizontal movement of the pattern	0-63	static level shift adjustment

		64-255	the dynamic horizontal movement effect, every 32 values for some, each for different horizontal movement effects, within the same segment, the larger the value, the faster the action
CH8 / 19	The vertical movement of the pattern	0-63	static vertical movement adjustment
		64-255	the dynamic vertical movement effect, every 32 values for some, each for different vertical movement effect, within the same segment, the larger the value, the faster the action
CH9 / 20	horizontal roll	0-63	static horizontal scaling adjustment
		64-255	dynamic horizontal scaling effect, every 32 values for some, each for different levels of zoom effect, in the same paragraph, the greater the value, the faster the action
CH10 / 21	vertical roll	0-63	static vertical scaling adjustment
		64-255	dynamic vertical zoom effect, every 32 values for some, each for different vertical zoom effect, in the same paragraph, the greater the value, the faster the action
CH11 / 22	Gradually painting	0-63	static gradually drawn regulation
		64-255	dynamic gradually painting effect, the greater the value, the faster the action
CH12 / 23	Node	0-255	
CH13 / 24	Colour Selection	0-63	static color choices, every the eight value of a color scheme
		64-127	five-colour flow
		128-255	Automatic colour

WARRANTY

Please refer to your local dealer or please contact Event Lighting.

LASER EMISSION DATA

* As measured under IEC measurement conditions for classification.

Laser Classification: Class 3B

Green Laser Medium DPSS: Nd:YVO4+KTP,532nm

Red Laser Medium LD: GaAlAs 650nm,typical

Blue Laser Medium LD: InGaN 450nm, typical

Beam Diameter: $r < 5\text{mm}$ at aperture

Divergence(each beam): $< 12\text{ mrad}$

Divergence(total light) : $< 90\text{ degrees}$

Laser Power:300mW 650nm Red CW, 100mW 532nm Green CW, 600mW 450nm Blue CW

Transverse Beam Mode: TEM00

Scanning: ILDA 20 Kpps

SPECIFICATIONS

Mains Input:AC100~240V, 50/60Hz

Fuse:250V /1.6A Slow Blow (20mm Glass)

Total Power:25W

X/Y Axis Beam Angle: $\pm 20^\circ$

Laser Safety Standard:EN60825-1 2007

Condition Temperature:10~40°C

DMX Connections:3 pins XLR Male/Female

Net Weight:3.25Kg

Measurement:

