

# A6 APP LASER LIGHT PRODUCT MANUAL



Dear user:

This product integrates cutting-edge technologies including optics, electronics, and digital graphics processing, specifically engineered for dance halls and DISCO venues. The built-in light beam sequences are synchronized with music rhythms, creating dynamic light installations when combined with smoke effects.

With effects like the Time Tunnel, we create a striking and unique spatial light atmosphere, showcasing the vibrant world of lasers to you.

## ● container loading list

- 1 complete performance system, 1 international power cord
- Instruction manual 1 copy Product warranty card 1 copy

## Product specifications and features:

1. The product features a high-brightness color laser with cutting-edge technology, offering compactness, portability, stable performance, and extended service life.
2. The animation laser performance uses a large-capacity single-chip microcomputer control system and excellent optical scanning galvanometer to complete the vivid Stunning laser text, patterns, and animation effects.
3. Features 128 custom beam effects specifically designed for Disco applications.
4. Multiple playback modes available: voice-activated, console manual, DMX512 signal control, and PC control.

The laser control software system can meet the requirements of various occasions.

5. Fully compatible with the internationally recognized DMX512 signal standard, featuring 21 control channels for flexible operation.
6. Through master-slave configuration, multiple devices can operate in sync.

## ● technical parameter :

Control signal: DMX-512 signal channel

Control modes: DMX-512 signal control, self-driving mode, sound mode, master-slave mode

Power supply: AC110-240V,50/60Hz

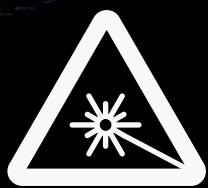
Scan angle: +/-25°

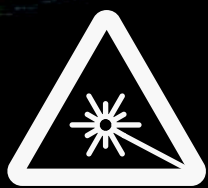
Control modes: voice command, self-driving, DMX (ILDA requires optional configuration-compatible with all major laser control software)

DMX channel: 16CH/20CH channels optional / laser control system

## Tending

Perform regular maintenance on the product. Prolonged use of the lamp may cause dust accumulation on the lens surface near the light outlet, which reduces laser output power. Clean the lens using lens paper or a cotton swab dipped in alcohol to optimize light output. Avoid using wet cloths or chemical solvents for cleaning. The cleaning frequency should be determined based on the lamp's operating frequency and surrounding environment, with a recommended cleaning interval of every 20 days. Regularly wipe the machine housing surface with a clean towel and inspect and clean the fan.





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**Common Product Failure Comparison Table**

Failure cause	Main Fault Analysis and Solutions
The lamp does not emit light. inoperation	Check if the power cord is properly connected to the lamp and if the power fuse is blown. 2. Does the input voltage match the specified voltage of the lamp?
The sound-controlled lighting device does not respond.	1. The potentiometer may be set to the minimum. Try adjusting the potentiometer.
The lamp is working properly, but not controlled by the controller	Check if the DIP start address of the lamp is correctly set Check if the XIR signal line is damaged
Master-slave synchronization mode. The master is normal, but the slave is abnormal.	Only one host is allowed. The host is not connected to the DMX console. Set to voice control or auto mode. The host is set correctly but the issue persists. Check the network cable.
The key is not working.	Check if any buttons fail to reset properly
The light is dim, and the brightness has decreased significantly.	Check if the bulb or laser tube has reached its service life Check for stains on the internal and external optical lenses and keep them clean.

**Statement**

This product undergoes rigorous quality control in our factory, ensuring optimal performance and intact packaging. All users must strictly follow the warnings and operating instructions provided. Any misuse resulting from product damage is not covered by our warranty. Incidents or issues arising from negligence in operating the manual or dealing with authorized dealers may cause laser-related harm to the human body, for which the company assumes full responsibility.

● **Direction for use**

1. Working mode:

When powered on, the DMX console allows you to freely control the laser's color, patterns, and speed.  
Power Supply and Signal Connection

voltage	AC100-240V		AC100-120V	AC200-240V
select and use				
frequency	50HZ	60HZ	50HZ—60HZ	
select and use				

**Connection and Control of Lamp Power Supply**

Connect the laser lamp to the main power line with a dedicated plug, and ensure that the voltage and frequency on the label match the power supply.

Channel table content: 1. 16-channel mode



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		DMX-512	Control content
CH1	master dimming	0-255	Total Switching/Dimming (Dimming function, analog modulation effective)
CH2	strobeflash	0-9	non-flicker
		10-255	The stroboscopic speed increases from slow to fast.
CH3	pigment	0-34	White, Red, Blue, Purple, Cyan, Yellow, Green (Fixed color selection)
		35-39	Overall color change (flow rate controlled by CH4) Overall color change (flow rate controlled by CH4)
		40-44	Initial pattern color (flow rate controlled by CH4) Initial pattern color (flow rate controlled by CH4)
		45-46	Seven Rainbow Colors (Flow speed controlled by CH4) Seven Rainbow Colors (Flow speed controlled by CH4)
		47-66	2-color selection, 4-step numerical control (flow rate controlled by CH4)
		67-96	3-color selection for segments 4-numerical step (flow rate controlled by CH4)
		97-126	4-color selection with 4-step adjustment (flow rate controlled by CH4)
		127-150	8-color segments with 4-step color selection (flow rate controlled by CH4)
		151-174	Select color for 16 segments with 4-step numerical adjustment (flow rate controlled by CH4)
		175-214	32 segments with color selection and 4 numerical steps (flow rate controlled by CH4)
		215-247	Simulated mixing: 32 types of simulated mixing (effective for simulated modulation)
CH4	Color flow speed	0-9	Colors do not flow
		10-127	Colors flow forward, from slow to fast
		128-255	Color reverse flow, speed from slow to fast
CH5	Select shape	0-255	Pattern selection (pattern grouping controlled by CH6)





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CH6	Select group	0-24	Built-in Static Group 1 (Basic Geometric Patterns)
		25-49	Built-in Static Graphics Group 2 (Basic Geometric Patterns)
		50-74	Built-in Static Group 3 (Edge Highlight Pattern)
		75-99	Built-in Static Group 4 (Dot Plot)
		100-124	continue to have
		125-149	ILDA Animation Group 1
		150-174	ILDA Animation Group 2
		175-199	ILDA Animation Group 3 (temporarily retained)
		200-224	ILDA Animation Group 4
		225-255	ILDA Animation Group 5
CH7	Pattern size	0-255	Manual pattern selection
CH8	Auto Zoom	0-15	Pattern size selection
		16-55	Select speed from small to large
		56-95	Select speed from large to small
		96-135	Zoom speed selection
		136-175	2-point irregular loop scaling
		176-215	Three-point irregular cyclic zoom
		216-255	Quartic irregular cyclic zoom
CH9	Rotate pattern around center	0-127	Rotation angle selection
		128-191	positive rotation speed selection
		192-255	backspin rate selection
CH10	Rotate the pattern around the X-axis	0-127	Horizontal flip position selection
		128-255	Horizontal flip speed selection
CH11	Rotate the pattern around the Y-axis	0-127	Vertical Flip Position Selection
		128-255	Vertical Flip Speed Selection
CH12	horizontal scroll	0-255	Horizontal Position Selection
CH13	vertical movement	0-255	Vertical position selection
CH14	X Wave	0-1	No waves
		2-255	Wave amplitude and speed adjustment (from small to large for amplitude, from slow to fast for speed, 8 levels with 32 values each)



CH15	Built-in dynamic effects	0-1	NF
		2-202	Built-in effect single selection (Color controlled by CH3, CH3=0 is the default color, Speed controlled by CH16)
		203-214	Line effect (Color: CH3 controls, CH3=0 is the default color, Speed: CH16 controls)
		215-224	Animation effect (controlled by color CH3, CH3=0 is the default color, and speed is controlled by CH16)
		225-234	Outdoor landmark effect (Color: CH3 controls, CH3=0 is the default color; Speed: CH16 controls)
		235-255	All effects play randomly (color controlled by CH3, CH3=0 is the default color, speed controlled by CH16)
CH16	Built-in dynamic effect speed	0-1	Default system speed
		2-255	Adjust the built-in effect speed manually from slow to fast

## 2. 20-channel mode

		DMX-512	Control content
CH1	master dimming	0-255	Total Switching/Dimming (Dimming function, analog modulation effective)
CH2	Red light dimming	0-255	Red light linear dimming
CH3	Green light dimming	0-255	Green light linear dimming
CH4	blue light dimming	0-255	Blue light linear dimming
CH5	strobeflash	0-9	non-flicker
		10-255	The stroboscopic speed increases from slow to fast.
CH6	pigment	0-34	White, Red, Blue, Purple, Cyan, Yellow, Green (Fixed color selection)
		35-39	Overall color change (flow rate controlled by CH7) Overall color change (flow rate controlled by CH7)
		40-44	Initial pattern color (flow rate controlled by CH7) Initial pattern color (flow rate controlled by CH7)
		45-46	Seven Rainbow Colors (Flow speed controlled by CH7) Seven Rainbow Colors (Flow speed controlled by CH7)
		47-66	2-color selection, 4-step numerical control (flow rate controlled by CH7)
		67-96	3-color selection for 4-step numerical control (flow rate controlled by CH7)
		97-126	4-color selection with 4-step adjustment (flow rate controlled by CH7)
		127-150	8-color segments with 4-step color selection (flow rate controlled by CH7)
		151-174	Select 4-step color segments (flow rate controlled by CH7)
		175-214	32 segments with color selection and 4-step numerical control (flow rate controlled by CH7)
		215-247	Simulated mixing: 32 types of simulated mixing (effective for simulated modulation)
248-255	Color gradient (flow rate controlled by CH7) Color gradient (flow rate controlled by CH7)		



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CH7	Color flow speed	0-9	Colors do not flow
		10-127	Colors flow forward, from slow to fast
		128-255	Color reverse flow, speed from slow to fast
CH8	Select shape	0-255	Pattern selection (pattern grouping controlled by CH9)
CH9	Select group	0-24	Built-in Static Group 1 (Basic Geometric Patterns)
		25-49	Built-in Static Graphics Group 2 (Basic Geometric Patterns)
		50-74	Built-in Static Group 3 (Edge Highlight Pattern)
		75-99	Built-in Static Group 4 (Dot Plot)
		100-124	continue to have
		125-149	ILDA Animation Group 1
		150-174	ILDA Animation Group 2
		175-199	ILDA Animation Group 3 (temporarily retained)
		200-224	ILDA Animation Group 4
		225-255	ILDA Animation Group 5
CH10	Pattern size	0-255	Manual pattern selection
CH11	Auto Zoom	0-15	Pattern size selection
		16-55	Select speed from small to large
		56-95	Select speed from large to small
		96-135	Zoom speed selection
		136-175	2-point irregular loop scaling
		176-215	Three-point irregular cyclic zoom
		216-255	Quartic irregular cyclic zoom
CH12	Rotate pattern around center	0-127	Rotation angle selection
		128-191	positive rotation speed selection
		192-255	backspin rate selection
CH13	Rotate the pattern around the X-axis	0-127	Horizontal flip position selection
		128-255	Horizontal flip speed selection
CH14	Rotate the pattern around the Y-axis	0-127	Vertical Flip Position Selection
		128-255	Vertical Flip Speed Selection



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CH15	horizontal scroll	0-255	Horizontal Position Selection
CH16	vertical movement	0-255	Vertical position selection
CH17	X Wave	0-1	No waves
		2-255	Wave amplitude and speed adjustment (from small to large for amplitude, from slow to fast for speed, 8 levels with 32 values each)
CH18	Pattern Grading	0-1	No fade
		2-63	Manual Gradient 1
		64-127	Manual Gradient 2
		128-153	Auto Fill (Plus)
		154-179	Auto Fill (Subtract)
		180-205	Auto Fill (Add First, Then Subtract-Reverse)
		206-255	Auto Fill (Add First, Then Subtract-Same Direction)
CH19	Built-in dynamic effects	0-1	NF
		2-202	Built-in effect single selection (color controlled by CH3, CH3=0 is the default color, speed controlled by CH20)
		203-214	Line effect (Color: CH3 controls, CH3=0 is the default color, Speed: CH20 controls)
		215-224	Animation effect (Color: CH3 controls, CH3=0 is the default color; Speed: CH20 controls)
		225-234	Outdoor landmark effect (Color: CH3 controls, CH3=0 is the default color; Speed: CH20 controls)
		235-255	All effects play randomly (color controlled by CH3, CH3=0 is the default color, speed controlled by CH20)
CH20	Built-in dynamic effect speed	0-1	Default system speed
		2-255	Adjust the built-in effect speed manually from slow to fast





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## install

1. Before installation, ensure your power supply voltage matches the voltage marked on the lamp.
  2. Professional installation is required to securely and reliably fix the lighting fixtures, and adjust them to the appropriate illumination angle.
  3. When installing this device, ensure there are no highly flammable or explosive items (e.g., decorations) within 0.5 meters, and maintain a minimum 30-centimeter clearance between the fixture and the wall.
  4. Ensure that the ventilation fan and exhaust duct are not blocked by other equipment or decorative materials.
  5. For safety reasons, use a safety steel rope capable of withstanding 10 times the weight of the lamp when passing through the safety
- Use the rope connection hole for auxiliary lifting. Installation note: For safety reasons, proper grounding of the ground wire is essential.

## matters need attention :

1. Strictly follow the procedures outlined in this manual. Do not disassemble the lamp without authorization. For any malfunction, contact a qualified technician for repair.
2. This product is intended for indoor use only and must be waterproof, moisture-resistant, and shockproof. Avoid using in dusty environments.
3. Based on the characteristics of semiconductor laser, the stable working environment is required. The temperature is 15~30°C. After continuous working for 10 hours, the lamp should be turned off for 10 minutes and the laser should be completely cooled before using, otherwise the service life of the laser will be shortened.
4. For fixed installation, take precautions to prevent the lamp from being subjected to strong vibrations or impacts. Do not use it in a shaking manner. The distance between the lamp and the object to be illuminated should be more than 500 meters.
5. Prevent foreign objects from entering the machine to avoid malfunctions.
6. When the machine is in operation, ensure that the exhaust channel is unobstructed for proper ventilation.
7. Before powering on, check if the plug is securely inserted and ensure the power supply is properly grounded to prevent electric shock.
8. Avoid frequent switching to prolong the laser lamp's lifespan, and minimize prolonged operation.
9. The repair stickers must not be torn off, otherwise the company will not be responsible for repairs.
10. Avoid using long-range viewing equipment to observe laser sources, as this may increase the risk.
11. If your hands are wet, avoid touching the product or pulling the power cord forcefully.
12. This lamp contains no user-repairable components. Do not open the lamp.
13. If the brightness of the semiconductor laser drops significantly or other malfunctions occur, contact the dealer immediately.
14. When transporting again, protect against vibrations and keep the original packaging.

## warn

1. Before performing any installation or maintenance work, make sure the power is off.
2. This lamp has a laser hazard class of Class III B. Direct observation within the beam is hazardous. The minimum safe distance is 13 cm, and the maximum safe exposure time is under ten seconds.
3. Keep a distance of more than 100 meters between the lamps and combustible materials.
4. The lamp requires a power supply of 220/110±10% V. If the voltage exceeds this range, a voltage stabilizer is recommended to avoid significantly reducing the laser's lifespan.

## warranty provision

1. The free warranty period is 24 months from the date of purchase, provided the device is used normally as per the user manual. If the device malfunctions, please contact the sales store. Present this warranty card when requesting repairs. The sales store reserves the right to deny warranty coverage without presenting the card.

The following repairs will also be charged during the warranty period:

The unboxing label on the machine was torn off by someone.

- Faults and damages caused by failure to follow the user manual and operating instructions.
- Faults and damages caused by shaking during transportation after purchase.
- Faults and damages caused by users' self-repair, modification, disassembly, or cleaning.
- Parts failure or operation failure caused by abnormal voltage.
- Defects or damages caused by fire, natural disasters, or earthquakes after purchase.
- The warranty card does not contain or has altered the purchase date, user's name, or the store's name, or lacks the store's official seal.
- Faults and damages caused by connecting other devices.

3. We shall not be liable for any malfunction of other connected devices caused directly or indirectly by this product.

4. Please keep this card properly. This warranty card cannot be reissued if lost.

1. Based on the operating characteristics of all-solid-state lasers, avoid prolonged operation. After continuous use for 3 hours, turn off the laser for 15 minutes to allow cooling before resuming use.

2. Do not touch the reflective lens inside the laser projection window with your hands
3. High pressure inside the device. Do not disassemble the laser lamp. Consult a professional.

- 4.

**Note: Damage caused by human or natural disasters is not covered by the warranty.**