

30W OUTDOOR LASER PROJECTOR PRODUCT MANUAL



1. Product Introduction

Thank you for choosing the Starshine Lights O30 30W Outdoor Laser Projector. This high-performance outdoor laser unit is designed for professional entertainment, architectural lighting, and outdoor events. It combines vibrant beam effects, multiple control modes, and robust weatherproofing to deliver stunning visual experiences.

2. Safety Precautions

1. Read Before Use

- Thoroughly review all instructions before operating the unit.
- Keep this manual for future reference.

2. Laser Safety

- Do not look directly into the laser beam or point it at people, animals, or reflective surfaces.
- Ensure the unit is mounted at least 2 meters above the ground and aimed above eye level.

3. Environmental

- IP65-rated for outdoor use; do not immerse in water.
- Operate between -20°C and $+45^{\circ}\text{C}$; avoid extreme heat or moisture.

4. Electrical

- Use only the supplied power cable and genuine replacement parts.
- Disconnect power before servicing.

3. Key Features

1. 30 W total power (20 W red, 10 W green)
2. IP65 waterproof housing for reliable outdoor operation
3. Multi-control modes: DMX-512, ILDA, stand-alone, master/slave, music-activated, autoplay
4. Built-in 2.9 software with intuitive LCD menu system
5. Wide beam divergence adjustment for long-throw or fill effects
6. High-speed galvanometer scanners for sharp graphics and animations

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4. Technical Specifications

Specification	Details
Laser Power	30 W (20 W Red + 10 W Green)
Wavelength	638 nm (Red), 532 nm (Green)
Scanner Speed	Up to 40 kpps
Control Modes	DMX-512, ILDA, Stand-alone, Slave, Autoplay, Music
Software Version	Laser System 2.9
Input Voltage	AC 100–240 V, 50/60 Hz
Power Consumption	150 W
Cooling	Quiet fan cooling
Protection Rating	IP65
Dimensions (L×W×H)	350 × 250 × 120 mm
Weight	6.5 kg

5. LCD Display Panel



 LED indicator

 SelectMenu/Menu selection

LED Indicator Status

Laser Key (RG)

- Slow red & green flash: Laser interlock engaged

Safety Protected

- Red ON, Green OFF: Light protection active

DMX/Slave Mode (RG)

- Rapid R&G flash: DMX signal present or in slave mode

Auto Mode

- Green slow flash: Auto-play sequence

Music Mode

- Red flash + Green ON: Microphone-activated mode

ILDA Mode

- Green fast flash: ILDA input active

SelectMenu / Menu Selection

Rotate the knob left/right to scroll through menu items.

When the desired item is highlighted, press OK/Return to enter or confirm.



LCD Chinese/English menu functions are shown in the following table

Level 1 Menu	Secondary Menu	Third-Level Menu
1. Function Mode	Functional Mode	<ol style="list-style-type: none"> 1. DMX-512 Mode 2. Auto Mode 3. Music Mode 4. ILDA Mode
2. Show Listing	Program List	<ul style="list-style-type: none"> • Select List • All List 001
3. Play Show	Play Show	<ul style="list-style-type: none"> • Choose Show • All The Show 001
4. Playback Setup	Playback Setup	<ol style="list-style-type: none"> 1. Play Speed (e.g. 50%) 2. Loop Play 3. Random Play
5. Address Setup	Address Setup	<ul style="list-style-type: none"> • Address Code (001)
6. Channel Setup	Channel Settings	<ul style="list-style-type: none"> • Normal Mode • Expert Mode
7. Laser Setup	Laser Setup	<ol style="list-style-type: none"> 1. Scan Speed / Scan Rate (20 KPPS) 2. Color Setup: <ul style="list-style-type: none"> • Single Color • RGY • RBP • GBC • RGB • WYPC 3. Laser Type: <ul style="list-style-type: none"> • TTL Modulation • Analog Modulation 4. Inversion Setting: <ul style="list-style-type: none"> • Normal XY • Invert X • Invert Y • Invert XY 5. Size Settings: <ul style="list-style-type: none"> • Size X • Size Y 6. Position Setup: <ul style="list-style-type: none"> • Position X • Position Y
8. General Setup	General Settings	<ol style="list-style-type: none"> 1. Reset Default: <ul style="list-style-type: none"> • Yes • No 2. Safety Protection Light Closure: <ul style="list-style-type: none"> • Turn ON • Turn OFF 3. Host Setup: <ul style="list-style-type: none"> • Turn ON • Turn OFF 4. Backlight Setting: <ul style="list-style-type: none"> • Normally ON • Delay 15 s OFF 5. Language Settings: <ul style="list-style-type: none"> • Chinese • English 6. Display Setup: <ul style="list-style-type: none"> • Normal Display • Rotate 180° 7. Software Version: <ul style="list-style-type: none"> • Laser System 2.9 Software • Ver 1.0 (YM: 2020030601)

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6.DMX-512 channel description

1. STD/common mode: 10CH

Channel	DMX Value Range	Function
CH1	0	Light OFF
	1-255	Light ON, intensity 1%-100%
CH2	1-255	Strobe: speed selection (slow at low values, faster toward 255)
CH3	0-255	Pattern size: from largest (0) to smallest (255)
CH4	0-255	Horizontal position: 128 = center. Active only when CH3 = 1-255
CH5	0-255	Vertical position: 128 = center. Active only when CH3 = 1-255
CH6	0-255	Pattern file: choose one from the internal pattern library
CH7	0-63	Fixed color selection
	64-95	Fixed color & color-change effect speed
	96-127	Color-change effect speed
	128-159	Color-change effect or flow-effect speed
	160-191	Flow-effect speed
	192-223	Flow-effect speed
	224-255	Gradient effect speed
	CH8	0-127
128-255		Spot scanning: speed selection
CH9	0-255	Library select: each increment of 8 selects the next pattern/effect library
CH10	0-26	Auto-run at default speed
	27-127	Auto-run: speed selection
	128-255	Voice-activated trigger: sensitivity selection

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2、PRO/Professional Mode: 18CH

Channels 1–9

Channel	DMX Value Range	Function
CH1	0	Light OFF
	1–255	Light ON, intensity 1%–100%
CH2	1–255	Strobe: speed selection (slow at low values → fast at 255)
CH3	0–255	Pattern size: from largest (0) to smallest (255)
CH4	0–255	Horizontal position: 128 = center; active only when CH3 = 1–255
CH5	0–255	Vertical position: 128 = center; active only when CH3 = 1–255
CH6	0–255	Pattern file: select one from the internal pattern library
CH7	0–63	Fixed color selection
	64–95	Fixed color + color-change effect speed
	96–127	Color-change effect speed
	128–159	Color-change or flow-effect speed
	160–191	Flow-effect speed
	192–223	Flow-effect speed
	224–255	Gradient effect speed
CH8	0–127	Line scanning: speed selection
	128–255	Spot scanning: speed selection
CH9	0–255	Library select: every increment of 8 values chooses the next pattern/effect library



Channels 10–18

Channel	DMX Value Range	Function
CH10	0–26	Auto-run at default speed
	27–127	Auto-run: speed selection
	128–255	Voice-activated trigger: sensitivity selection
CH11	1–127	Rotate Z: angle selection
	128–255	Rotate Z: speed selection
CH12	1–127	Rotate X: angle selection
	128–255	Rotate X: speed selection
CH13	1–127	Rotate Y: angle selection
	128–255	Rotate Y: speed selection
CH14	1–127	Horizontal move: position selection
	128–255	Horizontal move: speed selection
CH15	1–127	Vertical move: position selection
	128–255	Vertical move: speed selection
CH16	1–127	Zoom: size selection
	128–255	Zoom: speed selection
CH17	1–255	Gradient draw: speed selection
CH18	1–127	X-wave: speed selection
	128–255	Y-wave: speed selection

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7. Operating Modes

Stand-alone

- Uses onboard animations; set speed and pattern via menu.

DMX-512

- Eight- or sixteen-channel mode; control color, scan, and macros.

ILDA

- Accepts external ILDA graphics via a compatible PC or media server.

Music-Activated

- Built-in microphone triggers beam movements to ambient audio.

Autoplay

- Plays sequences stored on SD card or uploaded via PC.

Slave

- Synchronizes multiple O30 units; one set as Master, others as Slaves.

8. Maintenance

Exterior Cleaning

- Wipe with a soft, dry cloth; avoid solvents.

Lens Care

- Use lens-grade cleaning paper; remove dust gently.

Fan & Vents

- Inspect periodically; blow out dust with compressed air when powered off.

9. Warranty & Support

Warranty: 3 years from date of purchase (excluding consumables and user-caused damage).

Support: For assistance, visit www.starshinelights.com/support or email service@starshinelights.com

