



OUTDOOR SERIES

R5

WATERPROOF RGB STROBE PRODUCT MANUAL

1344 RGB LEDs, 24-segment chase, wash and strobe effects



400W

RATED POWER

1344 RGB

5050 SMD LEDs

3/7/72CH

DMX512MODES

IP65

WATERPROOF

READ THIS MANUAL BEFORE INSTALLATION OR OPERATION

Keep this manual for future reference and service procedures.

www.starshinelights.com

STARSHINE LIGHTS
PRODUCT MANUAL



PRODUCT OVERVIEW

Thank you for purchasing the R5 Waterproof 1344-LED 24-Segment RGB Strobe. For safe operation and best performance, read this manual before use and follow all installation, power and operating instructions.

PACKING LIST	BEFORE POWERING ON
1 x R5 waterproof RGB strobe	Inspect the housing, screws, bracket and LED window for transport damage.
1 x User manual	Place or mount the fixture securely and use an independent safety cable when suspended.
	Confirm that the AC supply matches the rated voltage.
	Use a properly grounded outlet installed by a qualified person.

TECHNICAL PARAMETERS

Item	Specification
Product model	R5
Power supply	AC 90-240V, 50/60Hz
Rated power	400W
Light source	1344 x 5050 SMD RGB LEDs
Strobe frequency	1-30Hz
DMX channels	3 / 7 / 72 channels
Dimming	32-bit, 0-100% linear dimming
Effects	24-segment chase, color wash and strobe
Control modes	DMX512, master/slave, sound-activated and RDM
Connections	DMX input/output; power input/output
Waterproof rating	IP65
Packing method	Flight case or carton
Product size	65 x 14 x 35 cm
Inner box size	69 x 42 x 19 cm
Carton size	72 x 43 x 42 cm; 2 pcs/carton
Net / gross weight	13.4 kg / 14.4 kg

SAFETY NOTICE

This is a Class I electrical appliance. The protective earth conductor must be connected. Do not stare directly into the high-intensity LED output, and never operate a damaged fixture.



DISPLAY PANEL AND MENU OPERATION

Front control panel

8.8.8.8

MENU

UP

DOWN

ENTER

Navigation: Press MENU to move through menu groups, use UP/DOWN to change a setting, and press ENTER to save. Saved settings are retained after power-off.

No.	Display	Function description
1	A001-A512	Set the DMX starting address from 001to512; press ENTER to save.
2	CH03 / CH07 / CH72	Select the 3-channel, 7-channel or 72-channel DMX profile.
3	M000-M126	Select one of 127 built-in effects; press ENTER to save.
4	S000-S255	Set the built-in effect speed from slow to fast.
5	Soud	Sound-activated mode.
6	R000-R255	Adjust red LED brightness.
7	G000-G255	Adjust green LED brightness.
8	B000-B255	Adjust blue LED brightness.
9	T000	Displays fixture temperature; for example, T045 means 45 C. If no 10K thermistor is fitted, T000 is shown.

QUICK START

Step	Action	Procedure
1	Inspect	Check the fixture, LED window, mounting bracket and power cable for damage.
2	Install	Place the light securely or mount it with an independent safety cable.
3	Power	Connect to a grounded AC 90-240V, 50/60Hz supply.
4	Select mode	Choose built-in, sound, master/slave or DMX operation.
5	Test	Confirm dimming, strobe, effects and temperature before the show.



DMX512 CHANNEL FUNCTIONS

The R5 uses standard DMX512 control with selectable 3-channel, 7-channel and 72-channel profiles. Set the starting address and channel profile in the fixture menu before connecting the controller.

3-CHANNEL MODE

Channel	DMX value	Function
1CH	000-255	Red linear dimming
2CH	000-255	Green linear dimming
3CH	000-255	Blue linear dimming

7-CHANNEL MODE

Channel	DMX value	Function
1CH	000-255	Master dimmer
2CH	000-255	Strobe speed
3CH	000-255	Built-in mode selection; see the effect reference on the following pages
4CH	000-255	Built-in effect speed
5CH	000-255	Red linear dimming
6CH	000-255	Green linear dimming
7CH	000-255	Blue linear dimming

72-CHANNEL MODE

Channels	Function
1-3	Segment 1: red, green and blue dimming
4-6	Segment 2: red, green and blue dimming
7-9	Segment 3: red, green and blue dimming
...	Continue in groups of three channels for each segment
67-69	Segment 23: red, green and blue dimming
70-72	Segment 24: red, green and blue dimming

DMX NOTE

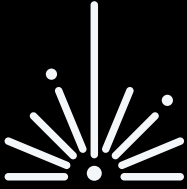
Use proper DMX cable and terminate the final fixture when required. In 7-channel mode, Channel 3 selects modes 0-127. For modes 11-122, the RGB channels can also be used to change the background color.



BUILT-IN EFFECT REFERENCE

Mode codes 0-25. The channel value ranges below apply to Channel 3 in 7-channel mode.

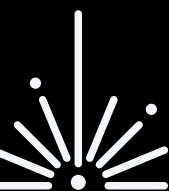
DMX value	Mode	Effect
0-1	0	No effect.
2-3	1	All red LEDs on.
4-5	2	All green LEDs on.
6-7	3	All blue LEDs on.
8-9	4	All red + green LEDs on.
10-11	5	All red + blue LEDs on.
12-13	6	All green + blue LEDs on.
14-15	7	All RGB LEDs on.
16-17	8	Cycle through modes 1-7.
18-19	9	Smooth color gradient.
20-21	10	Pulse effect.
22-23	11	I-pattern Red chase, right to left.
24-25	12	I-pattern Green chase, right to left. I-
26-27	13	pattern Blue chase, right to left.
28-29	14	I-pattern Red + green chase, right to left.
30-31	15	I-pattern Red + blue chase, right to left. I-
32-33	16	pattern Green + blue chase, right to left. I-
34-35	17	pattern RGB chase, right to left.
36-37	18	Cycle through modes 11-17.
38-39	19	I-pattern Red chase, left to right.
40-41	20	I-pattern Green chase, left to right. I-
42-43	21	pattern Blue chase, left to right.
44-45	22	I-pattern Red + green chase, left to right.
46-47	23	I-pattern Red + blue chase, left to right. I-
48-49	24	pattern Green + blue chase, left to right. I-
50-51	25	pattern RGB chase, left to right.



BUILT-IN EFFECT REFERENCE

Mode codes 26-51. The channel value ranges below apply to Channel 3 in 7-channel mode.

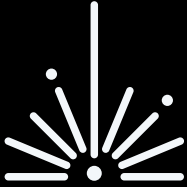
DMX value	Mode	Effect
52-53	26	Cycle through modes 19-25.
54-55	27	Double-line Red chase, right to left.
56-57	28	Double-line Green chase, right to left.
58-59	29	Double-line Blue chase, right to left.
60-61	30	Double-line Red + green chase, right to left.
62-63	31	Double-line Red + blue chase, right to left.
64-65	32	Double-line Green + blue chase, right to left.
66-67	33	Double-line RGB chase, right to left.
68-69	34	Cycle through modes 27-33.
70-71	35	Three horizontal Red bars move top to bottom.
72-73	36	Three horizontal Green bars move top to bottom.
74-75	37	Three horizontal Blue bars move top to bottom.
76-77	38	Three horizontal Red + green bars move top to bottom.
78-79	39	Three horizontal Red + blue bars move top to bottom.
80-81	40	Three horizontal Green + blue bars move top to bottom.
82-83	41	Three horizontal RGB bars move top to bottom.
84-85	42	Cycle through modes 35-41.
86-87	43	Two I-pattern Red groups chase right to left.
88-89	44	Two I-pattern Green groups chase right to left.
90-91	45	Two I-pattern Blue groups chase right to left.
92-93	46	Two I-pattern Red + green groups chase right to left.
94-95	47	Two I-pattern Red + blue groups chase right to left.
96-97	48	Two I-pattern Green + blue groups chase right to left.
98-99	49	Two I-pattern RGB groups chase right to left.
100-101	50	Cycle through modes 43-49.
102-103	51	I-pattern Red wipe, left to right.



BUILT-IN EFFECT REFERENCE

Mode codes 52-77. The channel value ranges below apply to Channel 3 in 7-channel mode.

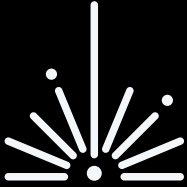
DMX value	Mode	Effect
104-105	52	I-pattern Green wipe, left to right.
106-107	53	I-pattern Blue wipe, left to right.
108-109	54	I-pattern Red + green wipe, left to right.
110-111	55	I-pattern Red + blue wipe, left to right.
112-113	56	I-pattern Green + blue wipe, left to right.
114-115	57	I-pattern RGB wipe, left to right.
116-117	58	Cycle through modes 51-57.
118-119	59	Single-segment Red chase with trailing effect. Single-
120-121	60	segment Green chase with trailing effect. Single-
122-123	61	segment Blue chase with trailing effect. Single-segment
124-125	62	Red + green chase with trailing effect. Single-segment
126-127	63	Red + blue chase with trailing effect. Single-segment
128-129	64	Green + blue chase with trailing effect. Single-segment
130-131	65	RGB chase with trailing effect.
132-133	66	Cycle through modes 59-65.
134-135	67	Three-segment Red shuttle with trailing effect. Three-
136-137	68	segment Green shuttle with trailing effect. Three-
138-139	69	segment Blue shuttle with trailing effect. Three-segment
140-141	70	Red + green shuttle with trailing effect. Three-segment
142-143	71	Red + blue shuttle with trailing effect. Three-segment
144-145	72	Green + blue shuttle with trailing effect. Three-segment
146-147	73	RGB shuttle with trailing effect.
148-149	74	Cycle through modes 67-73.
150-151	75	Perimeter Red chase with trailing effect.
152-153	76	Perimeter Green chase with trailing effect.
154-155	77	Perimeter Blue chase with trailing effect.



BUILT-IN EFFECT REFERENCE

Mode codes 78-103. The channel value ranges below apply to Channel 3 in 7-channel mode.

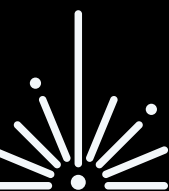
DMX value	Mode	Effect
156-157	78	Perimeter Red + green chase with trailing effect.
158-159	79	Perimeter Red + blue chase with trailing effect.
160-161	80	Perimeter Green + blue chase with trailing effect.
162-163	81	Perimeter RGB chase with trailing effect.
164-165	82	Cycle through modes 75-81.
166-167	83	I-pattern Red shuttle, left to right and back.
168-169	84	I-pattern Green shuttle, left to right and back.
170-171	85	I-pattern Blue shuttle, left to right and back.
172-173	86	I-pattern Red + green shuttle, left to right and back. I-
174-175	87	pattern Red + blue shuttle, left to right and back.
176-177	88	I-pattern Green + blue shuttle, left to right and back. I-
178-179	89	pattern RGB shuttle, left to right and back.
180-181	90	Cycle through modes 83-89.
182-183	91	I-pattern Red wipe, back and forth.
184-185	92	I-pattern Green wipe, back and forth.
186-187	93	I-pattern Blue wipe, back and forth.
188-189	94	I-pattern Red + green wipe, back and forth.
190-191	95	I-pattern Red + blue wipe, back and forth.
192-193	96	I-pattern Green + blue wipe, back and forth.
194-195	97	I-pattern RGB wipe, back and forth.
196-197	98	Cycle through modes 91-97.
198-199	99	Two I-pattern Red segments chase from both ends.
200-201	100	Two I-pattern Green segments chase from both ends.
202-203	101	Two I-pattern Blue segments chase from both ends.
204-205	102	Two I-pattern Red + green segments chase from both ends.
206-207	103	Two I-pattern Red + blue segments chase from both ends.



BUILT-IN EFFECT REFERENCE

Mode codes 104-127. The channel value ranges below apply to Channel 3 in 7-channel mode.

DMX value	Mode	Effect
208-209	104	Two I-pattern Green + blue segments chase from both ends.
210-211	105	Two I-pattern RGB segments chase from both ends.
212-213	106	Cycle through modes 99-105.
214-215	107	Two I-pattern Red segments wipe from both ends.
216-217	108	Two I-pattern Green segments wipe from both ends.
218-219	109	Two I-pattern Blue segments wipe from both ends.
220-221	110	Two I-pattern Red + green segments wipe from both ends.
222-223	111	Two I-pattern Red + blue segments wipe from both ends.
224-225	112	Two I-pattern Green + blue segments wipe from both ends.
226-227	113	Two I-pattern RGB segments wipe from both ends.
228-229	114	Cycle through modes 107-113.
230-231	115	Two Red segments stack from both ends.
232-233	116	Two Green segments stack from both ends.
234-235	117	Two Blue segments stack from both ends.
236-237	118	Two Red + green segments stack from both ends.
238-239	119	Two Red + blue segments stack from both ends.
240-241	120	Two Green + blue segments stack from both ends.
242-243	121	Two RGB segments stack from both ends.
244-245	122	Cycle through modes 115-121.
246-247	123	Colorful four-grid wipe.
248-249	124	Colorful eight-grid wipe.
250-251	125	Colorful four-pattern wave wipe.
252-253	126	Colorful wave wipe.
254-255	127	Combined all-effect cycle; RGB channels adjust the background color.



MAINTENANCE AND CLEANING

DISCONNECT POWER

Disconnect the fixture from mains power before inspection, cleaning or maintenance. Allow the housing to cool before touching the fixture.

INSPECTION CHECKLIST

- Keep dust, dirt, smoke fluid and oil away from the fixture and ventilation openings.
- Confirm that all screws, brackets, mounting points and safety cables are secure.
- Check that the LED window and housing are not cracked, loose or deformed.
- Check power and signal cables for cuts, heat damage or loose connectors.
- For outdoor use, make sure all waterproof connectors and covers are fully secured.

RECOMMENDED CLEANING SCHEDULE

Interval	Procedure
Weekly	Wipe the outside of the housing with a soft, slightly damp, lint-free cloth.
Monthly	Clean the LED window with professional glass cleaner and soft flannel.
Monthly	Remove dust from ventilation openings and cooling areas.
Every 3 months	Have a qualified technician inspect internal electrical connections if the fixture is used heavily.
As required	Stop using the product immediately if there is abnormal noise, smell, heat or output.

INSTALLATION ATTENTION

Any fixture suspended, hung or fixed at height must have a secondary safety attachment in addition to the normal mounting bracket or clamp. Installation without an independent safety cable presents a falling hazard and is not acceptable. Do not stare directly into the LED source for long periods.

STARSHINE LIGHTS SUPPORT

Product model: R5

Website: www.starshinelights.com

Keep the product serial number and purchase information available when requesting support.

