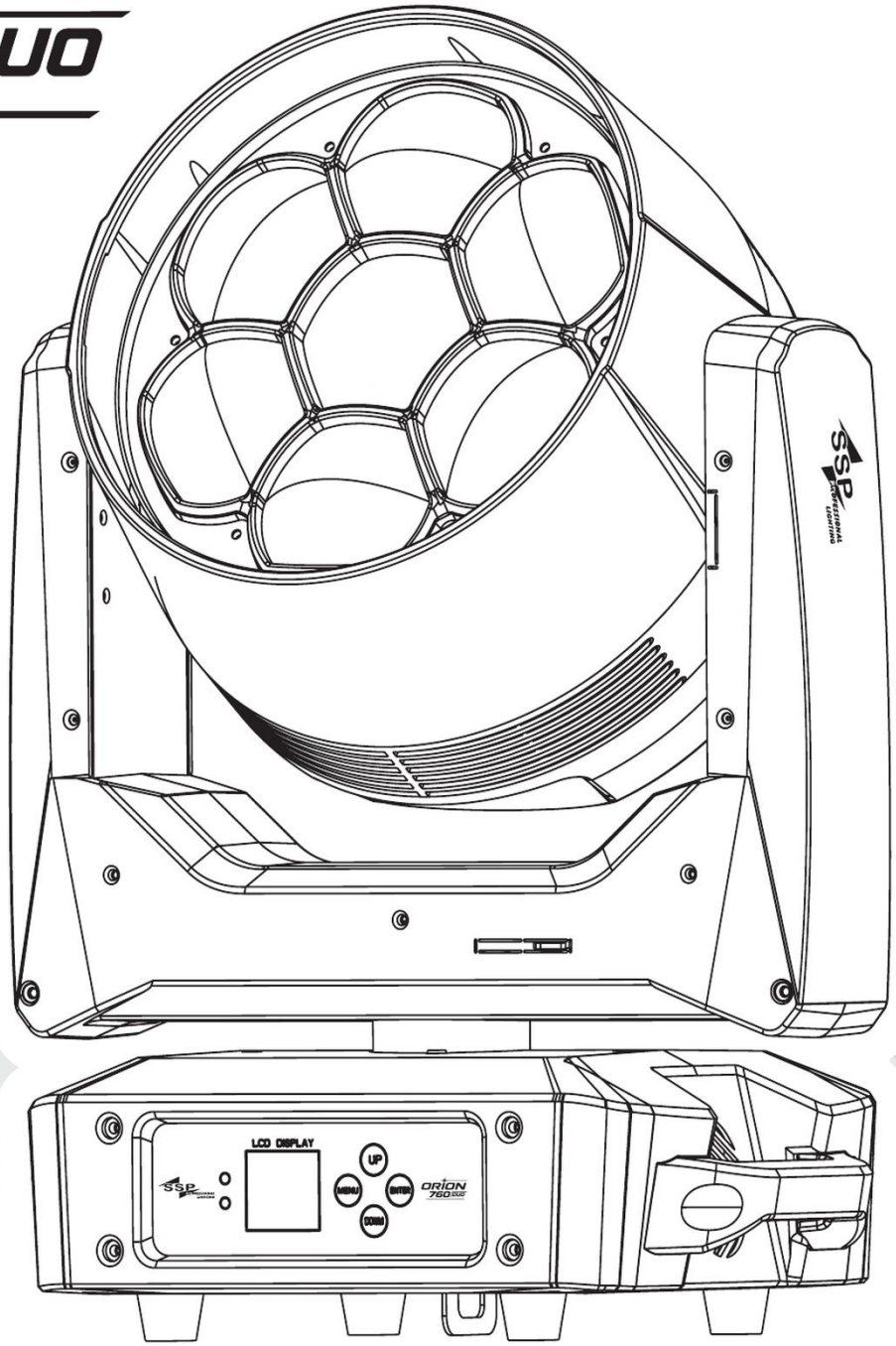
SSP PROFESSIONAL LIGHTING

ORION 760 DUO

User's Manual



LED MOVING HEAD

English

Please read the user manual carefully
before using the appliance.

ORION 760 DUO USER MANUAL – INDEX

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ORION 760 DUO USER MANUAL

1 Product description and specifications

1 Product description and specifications

The ORION 760 DUO is an LED moving head with RGBW LEDs, a filament aura and a ring. It has an LCD display with touch buttons and is controlled by DMX512, Auto, master-slave or sound control, with RDM.

Item	Specification
Voltage	AC 100–240 V, 50/60 Hz
Power	560 W
Light source	7 × 60 W RGBW 4-in-1 LEDs; filament aura 12 × 9 + 12 RGB 3-in-1 LEDs; aura 252 × 0.2 W RGB 3-in-1 LEDs; ring 48 × 0.2 W RGB 3-in-1 LEDs
Colour temperature	2500 K to 10000 K
Beam angle	3.8° to 41°
Spot angle	6.3° to 63°
Movement	Pan 540°, tilt 270°
Dimming	32-bit, 0–100% linear
Strobe	0–30 Hz
DMX channels	23, 33, 49 or 123
Control modes	DMX512, Auto, master-slave, sound control, with RDM
Display	LCD display with touch buttons
IP rating	IP20
Dimensions	396.5 × 275 × 497.5 mm
Weight	14.2 kg

1.1 Main features

- RGBW colour mixing with bright, saturated colours and uniform colour mixing.
- RGBW LED pixel control.
- Two auxiliary light systems: a filament aura LED with an illusion-eye effect, giving 360° panoramic rendering, and a ring.
- Linear CTO, with an infinite colour temperature range.
- High-precision pan and tilt movement.

2 Settings

2 Settings

Menu	Options	Description
DMX address	1–480	DMX address selection
Channel mode	23CH, 33CH, 49CH, 123CH	Select the DMX channel mode
DMX status	Black out, Hold	Black out: DMX signal cleared. Hold: DMX signal held.
DMX monitor	Channel 1, Channel 2 and so on	Check console data
Auto mode	OFF, Auto, Sound	OFF: DMX control. Auto: auto mode on. Sound: sound mode on.
Manual testing	Pan, Pan Fine, Tilt, and so on; OFF	Manual channel testing
Reset	Head, Pan/Tilt, All	Reset the selected motors
Pan reverse / Tilt reverse	No, Yes	Reverse the pan or tilt direction
Pan/Tilt encoder	ON, OFF	Pan and tilt encoder
Dimming curve	Square, Linear, S Curve, Inverse square	Dimming curve
Dimming mode	Mode 1 to Mode 4	Dimming mode
Restore factory settings	Confirm, Cancel	Restore factory settings
Display reverse	Yes / No	Reverse the screen
Backlight brightness	1–10	Adjust the screen brightness, from dark to bright
Temperature units	°C, °F	Display units
Language	Chinese / English	Language switch
Lock screen	Yes / No	Lock screen switch
Software version	–	Shows the software version and the version of each board
Temperature	LED1, LED2	Independent LED temperature detection
Hall state	Pan Hall, Pan encoding and so on	Shows 0 when magnetism is detected, otherwise 1
Error logging	–	View error records
Device time / LED time	–	Device usage time and LED usage time
Permission duration	9999 unlimited	Other values have time limits
Motor calibration	Pan, Tilt, Zoom, Rotation	Adjust the reset positions of the motors, from −128 to +127, where +0 means no adjustment
Colour calibration	Red 1, Red 2 and so on	Adjust the colour of a single LED from 0 to 255. Keep the adjustment between 220 and 255.

3 DMX channel modes

3 DMX channel modes

The fixture has four DMX channel modes, selected with the Channel Mode setting: 23, 33, 49 and 123 channels.

Mode	Channels	Notes
23 Channel Mode	23	Pan, tilt, speed, zoom, rotation, function, dimming and strobe, with red, green and blue channels for the main, magic eye, aura and ring LEDs, and a white channel for the main LEDs.
33 Channel Mode	33	Adds effect and effect speed channels for the magic eye, aura and ring, and a white channel and CTC colour temperature channel for the main LEDs.
49 Channel Mode	49	Adds separate total, dimming and strobe channels for the main, magic eye, aura and ring LEDs, colour macros, and effect channels with effect delay.
123 Channel Mode	123	Adds fine channels for pan, tilt, zoom, rotation and dimming, and individual red, green, blue and white channels for seven main LED groups and magic eye channels for 13 groups.

4 DMX channel tables

4 DMX channel tables

The DMX chart lists four modes. The tables below are taken from the DMX chart as printed.

4.1 23 Channel Mode

CH	Function	DMX value	Description
1	Pan	0–255	Rotate 0–540°
2	Pan Fine	0–255	16-bit fine
3	Tilt	0–255	Rotate 0–270°
4	Tilt Fine	0–255	16-bit fine
5	Pan/Tilt Speed	0–255	0–100%, fast → slow
6	Zoom	0–255	0–100%, small → large
7	Rotation	0–127	Rotation angle adjustment
		128–190	Forward rotation: fast → slow
		191–193	Stop
		194–255	Reverse rotation: slow → fast
8	Function	0–9	No function
		10–255	View (Control Settings)
9	Dimming	0–255	Linear dimming 0–100%
10	Strobe	0–19	Off
		20–24	Open
		25–64	Normal strobe, fast → slow
		65–69	Open
		70–84	Fast strobe, fast → slow
		85–89	Open
		90–104	Lightning strobe, fast → slow
		105–109	Open
		110–124	Strobe (fast on / slow off), fast → slow
		125–129	Open
		130–144	Strobe (slow on / fast off), fast → slow
		145–149	Open
		150–164	Random strobe, fast → slow
		165–169	Open
		170–184	Random strobe (fast on / slow off), fast → slow
		185–189	Open
		190–204	Random strobe (slow on / fast off), fast → slow
		205–209	Open

CH	Function	DMX value	Description
		210–224	Strobe (slow on / slow off), fast → slow
		225–229	Open
		230–244	Random strobe (slow on / slow off), fast → slow
		245–255	Open
11	Red	0–255	Linear dimming 0–100%
12	Green	0–255	Linear dimming 0–100%
13	Blue	0–255	Linear dimming 0–100%
14	White	0–255	Linear dimming 0–100%
15	Magic Eye Red	0–255	Linear dimming 0–100%
16	Magic Eye Green	0–255	Linear dimming 0–100%
17	Magic Eye Blue	0–255	Linear dimming 0–100%
18	Aura Red	0–255	Linear dimming 0–100%
19	Aura Green	0–255	Linear dimming 0–100%
20	Aura Blue	0–255	Linear dimming 0–100%
21	Ring Red	0–255	Linear dimming 0–100%
22	Ring Green	0–255	Linear dimming 0–100%
23	Ring Blue	0–255	Linear dimming 0–100%

4.2 33 Channel Mode

CH	Function	DMX value	Description
1	Pan	0–255	Rotate 0–540°
2	Pan Fine	0–255	16-bit fine
3	Tilt	0–255	Rotate 0–270°
4	Tilt Fine	0–255	16-bit fine
5	Pan/Tilt Speed	0–255	0–100%, fast → slow
6	Zoom	0–255	0–100%, small → large
7	Rotation	0–127	Rotation angle adjustment
		128–190	Forward rotation: fast → slow
		191–193	Stop
		194–255	Reverse rotation: slow → fast
8	Function	0–9	No function
		10–255	View (Control Settings)
9	Dimming	0–255	Linear dimming 0–100%
10	Strobe	0–19	Off
		20–24	Open
		25–64	Normal strobe, fast → slow
		65–69	Open

CH	Function	DMX value	Description
		70–84	Fast strobe, fast → slow
		85–89	Open
		90–104	Lightning strobe, fast → slow
		105–109	Open
		110–124	Strobe (fast on / slow off), fast → slow
		125–129	Open
		130–144	Strobe (slow on / fast off), fast → slow
		145–149	Open
		150–164	Random strobe, fast → slow
		165–169	Open
		170–184	Random strobe (fast on / slow off), fast → slow
		185–189	Open
		190–204	Random strobe (slow on / fast off), fast → slow
		205–209	Open
		210–224	Strobe (slow on / slow off), fast → slow
		225–229	Open
		230–244	Random strobe (slow on / slow off), fast → slow
		245–255	Open
11	Effect	0–15	No effect
		16–51	Static graphics, each effect per 2 values Dynamic graphics, each effect per 3 values; auto colour change when
		52–255	no colour is selected
12	Effect Speed	0–255	Static graphics: position offset control
		0–127	Dynamic effect: forward rotation, fast → slow
		128	Stop
		129–255	Dynamic effect: reverse rotation, slow → fast
13	Magic Eye Effect (One effect per value, automatic colour change when no colour is)	0	No function
		1–255	selected
14	Magic Eye Center Effect	0	No function
		1–49	Color selection, one color per value
		50–255	View (Effect 1), one effect per 3 values
15	Magic Eye Effect Speed	0–127	Forward rotation: fast → slow
		128	Stop
		129–255	Reverse rotation: slow → fast
16	Aura Effect (One effect per value, automatic colour change when no colour is)	0	No function

CH	Function	DMX value	Description
		1–255	selected
17	Aura Effect Speed	0–127	Forward rotation: fast → slow
		128	Stop
		129–255	Reverse rotation: slow → fast
18	Ring Effect (1–227)	0	No function View (Effect 2), one effect per 2 values; automatic colour change when no colour is selected
		228–255	View (Effect 2), one effect per 4 values, fixed colour
19	Ring Effect Speed	0–127	Forward rotation: fast → slow
		128	Stop
		129–255	Reverse rotation: slow → fast
20	Red	0–255	Linear dimming 0–100%
21	Green	0–255	Linear dimming 0–100%
22	Blue	0–255	Linear dimming 0–100%
23	White	0–255	Linear dimming 0–100%
24	CTC	0	No function
		1–255	From 8000K to 2000K
25	Magic Eye Red	0–255	Linear dimming 0–100%
26	Magic Eye Green	0–255	Linear dimming 0–100%
27	Magic Eye Blue	0–255	Linear dimming 0–100%
28	Aura Red	0–255	Linear dimming 0–100%
29	Aura Green	0–255	Linear dimming 0–100%
30	Aura Blue	0–255	Linear dimming 0–100%
31	Ring Red	0–255	Linear dimming 0–100%
32	Ring Green	0–255	Linear dimming 0–100%
33	Ring Blue	0–255	Linear dimming 0–100%

4.3 49 Channel Mode

CH	Function	DMX value	Description
1	Pan	0–255	Rotate 0–540°
2	Pan Fine	0–255	16-bit fine
3	Tilt	0–255	Rotate 0–270°
4	Tilt Fine	0–255	16-bit fine
5	Pan/Tilt Speed	0–255	0–100%, fast → slow
6	Zoom	0–255	0–100%, small → large
7	Rotation	0–127	Rotation angle adjustment
		128–190	Forward rotation: fast → slow
		191–193	Stop
		194–255	Reverse rotation: slow → fast

CH	Function	DMX value	Description
8	Function	0–9	No function
		10–255	View (Control Settings)
9	Total Dimming	0–255	Linear dimming 0–100%
10	Dimming	0–255	Linear dimming 0–100%
11	Strobe	0–19	Off
		20–24	Open
		25–64	Normal strobe, fast → slow
		65–69	Open
		70–84	Fast strobe, fast → slow
		85–89	Open
		90–104	Lightning strobe, fast → slow
		105–109	Open
		110–124	Strobe (fast on / slow off), fast → slow
		125–129	Open
		130–144	Strobe (slow on / fast off), fast → slow
		145–149	Open
		150–164	Random strobe, fast → slow
		165–169	Open
		170–184	Random strobe (fast on / slow off), fast → slow
		185–189	Open
		190–204	Random strobe (slow on / fast off), fast → slow
		205–209	Open
		210–224	Strobe (slow on / slow off), fast → slow
		225–229	Open
		230–244	Random strobe (slow on / slow off), fast → slow
		245–255	Open
12	Magic Eye Dimming	0–255	Linear dimming 0–100%
13	Magic Eye Strobe	0–19	Off
		20–24	Open
		25–64	Normal strobe, fast → slow
		65–69	Open
		70–84	Fast strobe, fast → slow
		85–89	Open
		90–104	Lightning strobe, fast → slow
		105–109	Open
		110–124	Strobe (fast on / slow off), fast → slow
		125–129	Open

CH	Function	DMX value	Description
		130–144	Strobe (slow on / fast off), fast → slow
		145–149	Open
		150–164	Random strobe, fast → slow
		165–169	Open
		170–184	Random strobe (fast on / slow off), fast → slow
		185–189	Open
		190–204	Random strobe (slow on / fast off), fast → slow
		205–209	Open
		210–224	Strobe (slow on / slow off), fast → slow
		225–229	Open
		230–244	Random strobe (slow on / slow off), fast → slow
		245–255	Open
14	Aura Dimming	0–255	Linear dimming 0–100%
15	Aura Strobe	0–19	Off
		20–24	Open
		25–64	Normal strobe, fast → slow
		65–69	Open
		70–84	Fast strobe, fast → slow
		85–89	Open
		90–104	Lightning strobe, fast → slow
		105–109	Open
		110–124	Strobe (fast on / slow off), fast → slow
		125–129	Open
		130–144	Strobe (slow on / fast off), fast → slow
		145–149	Open
		150–164	Random strobe, fast → slow
		165–169	Open
		170–184	Random strobe (fast on / slow off), fast → slow
		185–189	Open
		190–204	Random strobe (slow on / fast off), fast → slow
		205–209	Open
		210–224	Strobe (slow on / slow off), fast → slow
		225–229	Open
		230–244	Random strobe (slow on / slow off), fast → slow
		245–255	Open
16	Ring Dimming	0–255	Linear dimming 0–100%
17	Ring Strobe	0–19	Off

CH	Function	DMX value	Description
		20–24	Open
		25–64	Normal strobe, fast → slow
		65–69	Open
		70–84	Fast strobe, fast → slow
		85–89	Open
		90–104	Lightning strobe, fast → slow
		105–109	Open
		110–124	Strobe (fast on / slow off), fast → slow
		125–129	Open
		130–144	Strobe (slow on / fast off), fast → slow
		145–149	Open
		150–164	Random strobe, fast → slow
		165–169	Open
		170–184	Random strobe (fast on / slow off), fast → slow
		185–189	Open
		190–204	Random strobe (slow on / fast off), fast → slow
		205–209	Open
		210–224	Strobe (slow on / slow off), fast → slow
		225–229	Open
		230–244	Random strobe (slow on / slow off), fast → slow
		245–255	Open
18	Red	0–255	Linear dimming 0–100%
19	Green	0–255	Linear dimming 0–100%
20	Blue	0–255	Linear dimming 0–100%
21	White	0–255	Linear dimming 0–100%
22	CTC	0	No function
		1–255	From 8000K to 2000K
23	Red/Green Colour Correction	0–127	Green correction: linear increase
		128	No correction
		129–255	Red correction: linear increase
24	Color Macros	0	No function
		1–255	View (Color Macro Settings)
25	Effect	0–15	No effect
		16–51	Static graphics, each effect per 2 values Dynamic graphics, each effect per 3 values; auto colour change when
		52–255	no colour is selected
26	Effect Speed	0–255	Static graphics: position offset control
		0–127	Dynamic effect: forward rotation, fast → slow

CH	Function	DMX value	Description
		128	Stop
		129–255	Dynamic effect: reverse rotation, slow → fast
27	Effect Delay	0–255	0–100%, fast → slow
28	Magic Eye Red	0–255	Linear dimming 0–100%
29	Magic Eye Green	0–255	Linear dimming 0–100%
30	Magic Eye Blue	0–255	Linear dimming 0–100%
31	Magic Eye Color Macro	0	No function
		1–255	View (Color Macro Settings)
32	Magic Eye Effect (One effect per value, automatic colour change when no colour is)	0	No function
		1–255	selected
33	Magic Eye Center Effect	0	No function
		1–49	Color selection, one color per value
		50–255	View (Effect 1), one effect per 3 values
34	Magic Eye Effect Speed	0–127	Forward rotation: fast → slow
		128	Stop
		129–255	Reverse rotation: slow → fast
35	Magic Eye Effect Delay	0–255	0–100%, fast → slow
36	Aura Red	0–255	Linear dimming 0–100%
37	Aura Green	0–255	Linear dimming 0–100%
38	Aura Blue	0–255	Linear dimming 0–100%
39	Aura Color Macro	0	No function
		1–255	View (Color Macro Settings)
40	Aura Effect (One effect per value, automatic colour change when no colour is)	0	No function
		1–255	selected
41	Aura Effect Speed	0–127	Forward rotation: fast → slow
		128	Stop
		129–255	Reverse rotation: slow → fast
42	Aura Effect Delay	0–255	0–100%, fast → slow
43	Ring Red	0–255	Linear dimming 0–100%
44	Ring Green	0–255	Linear dimming 0–100%
45	Ring Blue	0–255	Linear dimming 0–100%
46	Ring Color Macro	0	No function
		1–255	View (Color Macro Settings)
47	Ring Effect (1–227)	0	No function View (Effect 2), one effect per 2 values; automatic colour change when no colour is selected

CH	Function	DMX value	Description
		228–255	View (Effect 2), one effect per 4 values, fixed colour
48	Ring Effect Speed	0–127	Forward rotation: fast → slow
		128	Stop
		129–255	Reverse rotation: slow → fast
49	Ring Effect Delay	0–255	0–100%, fast → slow

4.4 123 Channel Mode

CH	Function	DMX value	Description
1	Pan	0–255	Rotate 0–540°
2	Pan Fine	0–255	16-bit fine
3	Tilt	0–255	Rotate 0–270°
4	Tilt Fine	0–255	16-bit fine
5	Pan/Tilt Speed	0–255	0–100%, fast → slow
6	Zoom	0–255	0–100%, small → large
7	Zoom Fine	0–255	16-bit fine
8	Rotation	0–127	Rotation angle adjustment
		128–190	Forward rotation: fast → slow
		191–193	Stop
		194–255	Reverse rotation: slow → fast
9	Rotation Fine	0–255	16-bit fine
10	Function	0–9	No function
		10–255	View (Control Settings)
11	Total Dimming	0–255	Linear dimming 0–100%
12	Dimming	0–255	Linear dimming 0–100%
13	Dimming Fine	0–255	16-bit fine
14	Strobe	0–19	Light shutter closed
		20–24	Open
		25–64	Normal strobe, fast → slow
		65–69	Open
		70–84	Fast strobe, fast → slow
		85–89	Open
		90–104	Lightning strobe, fast → slow
		105–109	Open
		110–124	Strobe (fast on / slow off), fast → slow
		125–129	Open
		130–144	Strobe (slow on / fast off), fast → slow
		145–149	Open

CH	Function	DMX value	Description
		150–164	Random strobe, fast → slow
		165–169	Open
		170–184	Random strobe (fast on / slow off), fast → slow
		185–189	Open
		190–204	Random strobe (slow on / fast off), fast → slow
		205–209	Open
		210–224	Strobe (slow on / slow off), fast → slow
		225–229	Open
		230–244	Random strobe (slow on / slow off), fast → slow
		245–255	Open
15	Magic Eye Dimming	0–255	Linear dimming 0–100%
16	Magic Eye Strobe	0–19	Off
		20–24	Open
		25–64	Normal strobe, fast → slow
		65–69	Open
		70–84	Fast strobe, fast → slow
		85–89	Open
		90–104	Lightning strobe, fast → slow
		105–109	Open
		110–124	Strobe (fast on / slow off), fast → slow
		125–129	Open
		130–144	Strobe (slow on / fast off), fast → slow
		145–149	Open
		150–164	Random strobe, fast → slow
		165–169	Open
		170–184	Random strobe (fast on / slow off), fast → slow
		185–189	Open
		190–204	Random strobe (slow on / fast off), fast → slow
		205–209	Open
		210–224	Strobe (slow on / slow off), fast → slow
		225–229	Open
		230–244	Random strobe (slow on / slow off), fast → slow
		245–255	Open
17	Aura Dimming	0–255	Linear dimming 0–100%
18	Aura Strobe	0–19	Off
		20–24	Open
		25–64	Normal strobe, fast → slow

CH	Function	DMX value	Description
		65–69	Open
		70–84	Fast strobe, fast → slow
		85–89	Open
		90–104	Lightning strobe, fast → slow
		105–109	Open
		110–124	Strobe (fast on / slow off), fast → slow
		125–129	Open
		130–144	Strobe (slow on / fast off), fast → slow
		145–149	Open
		150–164	Random strobe, fast → slow
		165–169	Open
		170–184	Random strobe (fast on / slow off), fast → slow
		185–189	Open
		190–204	Random strobe (slow on / fast off), fast → slow
		205–209	Open
		210–224	Strobe (slow on / slow off), fast → slow
		225–229	Open
		230–244	Random strobe (slow on / slow off), fast → slow
		245–255	Open
19	Ring Dimming	0–255	Linear dimming 0–100%
20	Ring Strobe	0–19	Off
		20–24	Open
		25–64	Normal strobe, fast → slow
		65–69	Open
		70–84	Fast strobe, fast → slow
		85–89	Open
		90–104	Lightning strobe, fast → slow
		105–109	Open
		110–124	Strobe (fast on / slow off), fast → slow
		125–129	Open
		130–144	Strobe (slow on / fast off), fast → slow
		145–149	Open
		150–164	Random strobe, fast → slow
		165–169	Open
		170–184	Random strobe (fast on / slow off), fast → slow
		185–189	Open
		190–204	Random strobe (slow on / fast off), fast → slow

CH	Function	DMX value	Description
		205–209	Open
		210–224	Strobe (slow on / slow off), fast → slow
		225–229	Open
		230–244	Random strobe (slow on / slow off), fast → slow
		245–255	Open
21	Red	0–255	Linear dimming 0–100%
22	Red Fine	0–255	16-bit fine
23	Green	0–255	Linear dimming 0–100%
24	Green Fine	0–255	16-bit fine
25	Blue	0–255	Linear dimming 0–100%
26	Blue Fine	0–255	16-bit fine
27	White	0–255	Linear dimming 0–100%
28	White Fine	0–255	16-bit fine
29	CTC	0	No function
		1–255	From 8,000K to 2,000K
30	Red/Green Colour Correction	0–127	Green correction: linear increase
		128	No correction
		129–255	Red correction: linear increase
31	Color Macros	0	No function
		1–255	View (Color Macro Settings)
32	Effect	0–15	No effect
		16–51	Static graphics, each effect per 2 values Dynamic graphics, each effect per 3 values; auto colour change when
		52–255	no colour is selected
33	Effect Speed	0–255	Static graphics: position offset control
		0–127	Dynamic effect: forward rotation, fast → slow
		128	Stop
		129–255	Dynamic effect: reverse rotation, slow → fast
34	Effect Delay	0–255	0–100%, fast → slow
35	Magic Eye Red	0–255	Linear dimming 0–100%
36	Magic Eye Green	0–255	Linear dimming 0–100%
37	Magic Eye Blue	0–255	Linear dimming 0–100%
38	Magic Eye Color Macro	0	No function
		1–255	View (Color Macro Settings)
39	Magic Eye Effect (One effect per value, automatic colour change when no colour is)	0	No function
		1–255	selected
40	Magic Eye Center Effect	0	No function

CH	Function	DMX value	Description
		1–49	Color selection, one color per value
		50–255	View (Effect 1), one effect per 3 values
41	Magic Eye Effect Speed	0–127	Forward rotation: fast → slow
		128	Stop
		129–255	Reverse rotation: slow → fast
42	Magic Eye Effect Delay	0–255	0–100%, fast → slow
43	Aura Red	0–255	Linear dimming 0–100%
44	Aura Green	0–255	Linear dimming 0–100%
45	Aura Blue	0–255	Linear dimming 0–100%
46	Aura Color Macro	0	No function
		1–255	View (Color Macro Settings)
47	Aura Effect (One effect per value, automatic colour change when no colour is)	0	No function
		1–255	selected
48	Aura Effect Speed	0–127	Forward rotation: fast → slow
		128	Stop
		129–255	Reverse rotation: slow → fast
49	Aura Effect Delay	0–255	0–100%, fast → slow
50	Ring Red	0–255	Linear dimming 0–100%
51	Ring Green	0–255	Linear dimming 0–100%
52	Ring Blue	0–255	Linear dimming 0–100%
53	Ring Color Macro	0	No function
		1–255	View (Color Macro Settings)
54	Ring Effect (1–227)	0	No function View (Effect 2), one effect per 2 values; automatic colour change when no colour is selected
		228–255	View (Effect 2), one effect per 4 values, fixed colour
55	Ring Effect Speed	0–127	Forward rotation: fast → slow
		128	Stop
		129–255	Reverse rotation: slow → fast
56	Ring Effect Delay	0–255	0–100%, fast → slow
57	Red 1	0–255	Linear dimming 0–100%
58	Green 1	0–255	Linear dimming 0–100%
59	Blue 1	0–255	Linear dimming 0–100%
60	White 1	0–255	Linear dimming 0–100%
61	Red 2	0–255	Linear dimming 0–100%
62	Green 2	0–255	Linear dimming 0–100%
63	Blue 2	0–255	Linear dimming 0–100%
64	White 2	0–255	Linear dimming 0–100%

CH	Function	DMX value	Description
65	Red 3	0–255	Linear dimming 0–100%
66	Green 3	0–255	Linear dimming 0–100%
67	Blue 3	0–255	Linear dimming 0–100%
68	White 3	0–255	Linear dimming 0–100%
69	Red 4	0–255	Linear dimming 0–100%
70	Green 4	0–255	Linear dimming 0–100%
71	Blue 4	0–255	Linear dimming 0–100%
72	White 4	0–255	Linear dimming 0–100%
73	Red 5	0–255	Linear dimming 0–100%
74	Green 5	0–255	Linear dimming 0–100%
75	Blue 5	0–255	Linear dimming 0–100%
76	White 5	0–255	Linear dimming 0–100%
77	Red 6	0–255	Linear dimming 0–100%
78	Green 6	0–255	Linear dimming 0–100%
79	Blue 6	0–255	Linear dimming 0–100%
80	White 6	0–255	Linear dimming 0–100%
81	Red 7	0–255	Linear dimming 0–100%
82	Green 7	0–255	Linear dimming 0–100%
83	Blue 7	0–255	Linear dimming 0–100%
84	White 7	0–255	Linear dimming 0–100%
85	Magic Eye Red 1	0–255	Linear dimming 0–100%
86	Magic Eye Green 1	0–255	Linear dimming 0–100%
87	Magic Eye Blue 1	0–255	Linear dimming 0–100%
88	Magic Eye Red 2	0–255	Linear dimming 0–100%
89	Magic Eye Green 2	0–255	Linear dimming 0–100%
90	Magic Eye Blue 2	0–255	Linear dimming 0–100%
91	Magic Eye Red 3	0–255	Linear dimming 0–100%
92	Magic Eye Green 3	0–255	Linear dimming 0–100%
93	Magic Eye Blue 3	0–255	Linear dimming 0–100%
94	Magic Eye Red 4	0–255	Linear dimming 0–100%
95	Magic Eye Green 4	0–255	Linear dimming 0–100%
96	Magic Eye Blue 4	0–255	Linear dimming 0–100%
97	Magic Eye Red 5	0–255	Linear dimming 0–100%
98	Magic Eye Green 5	0–255	Linear dimming 0–100%
99	Magic Eye Blue 5	0–255	Linear dimming 0–100%
100	Magic Eye Red 6	0–255	Linear dimming 0–100%
101	Magic Eye Green 6	0–255	Linear dimming 0–100%

CH	Function	DMX value	Description
102	Magic Eye Blue 6	0–255	Linear dimming 0–100%
103	Magic Eye Red 7	0–255	Linear dimming 0–100%
104	Magic Eye Green 7	0–255	Linear dimming 0–100%
105	Magic Eye Blue 7	0–255	Linear dimming 0–100%
106	Magic Eye Red 8	0–255	Linear dimming 0–100%
107	Magic Eye Green 8	0–255	Linear dimming 0–100%
108	Magic Eye Blue 8	0–255	Linear dimming 0–100%
109	Magic Eye Red 9	0–255	Linear dimming 0–100%
110	Magic Eye Green 9	0–255	Linear dimming 0–100%
111	Magic Eye Blue 9	0–255	Linear dimming 0–100%
112	Magic Eye Red 10	0–255	Linear dimming 0–100%
113	Magic Eye Green 10	0–255	Linear dimming 0–100%
114	Magic Eye Blue 10	0–255	Linear dimming 0–100%
115	Magic Eye Red 11	0–255	Linear dimming 0–100%
116	Magic Eye Green 11	0–255	Linear dimming 0–100%
117	Magic Eye Blue 11	0–255	Linear dimming 0–100%
118	Magic Eye Red 12	0–255	Linear dimming 0–100%
119	Magic Eye Green 12	0–255	Linear dimming 0–100%
120	Magic Eye Blue 12	0–255	Linear dimming 0–100%
121	Magic Eye Red 13	0–255	Linear dimming 0–100%
122	Magic Eye Green 13	0–255	Linear dimming 0–100%
123	Magic Eye Blue 13	0–255	Linear dimming 0–100%

5 Troubleshooting and cleaning

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5.1 Common faults

Fault	Check
LEDs not lit, fixture not running, fan not running	Check the voltage against the fixture specification and the power connection and control switch. Check there is enough power supply, and that the DMX512 controller is sending commands.
No response to the console after a normal reset	Check the DMX start address and the function settings, and the signal line connections. Check that the line is not too long or disconnected, and that the controller or any signal amplifier has not failed. Shorten the cables, separate high-voltage and low-voltage lines, use shielded twisted-pair cable, and add a signal amplifier if needed. Connect a terminating resistor at the end of the fixture line.
Fixture fails to power on	Check that the power supply matches the fixture. Check for loose or disconnected connectors, and for loose, short-circuited or burned components.
Abnormal X or Y axis movement	Carry out the checks above. Check the X and Y drive belts for looseness, disconnection or breakage, and check the Hall effect position sensors. Power cycle the fixture and reset it.
A specific channel does not respond	Check the motor wiring for poor contact or damage. The stepper motor or its drive circuit may be damaged.

Any issue that is not resolved should be handled by qualified personnel. Disconnect the power supply before servicing the fixture.

5.2 Cleaning

Keep the lamp clean to maintain performance and light output. Clean the exterior and interior regularly, because dust, dirt and smoke residue build up on the optics. The frequency depends on the environment, and if dust enters the fixture during installation, clean it immediately. Use a soft lint-free cloth and a high-quality glass cleaner. Never use solvents. Dry the parts carefully so no cleaning residue is left. Wipe the outside of the lens at least once every 20 days, depending on the environment.