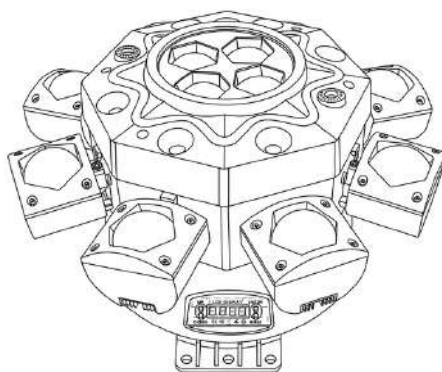


X28

8-ARM BEE-EYE EFFECT LIGHT

PRODUCT MANUAL

Beam, bee-eye, laser, strobe and flowing LED effects



200W
RATED POWER

28CH
DMX512 CONTROL

8 ARM
MOTORIZED BEAMS

READ THIS MANUAL BEFORE INSTALLATION OR OPERATION

Keep this manual for future reference, service and DMX programming.

PRODUCT OVERVIEW

Thank you for purchasing the X28 8-Arm Bee-Eye Effect Light. This multi-effect fixture combines eight motorized RGBW beam arms, a rotating bee-eye effect, red and green lasers, white and golden strobe LEDs, and flowing LED-strip effects. Read this manual fully before use to ensure safe installation and reliable operation.

BEFORE POWERING ON

Inspect the housing, screws, lenses, mounting points and power cable. Mount the fixture securely and attach an independent safety cable when installed overhead.

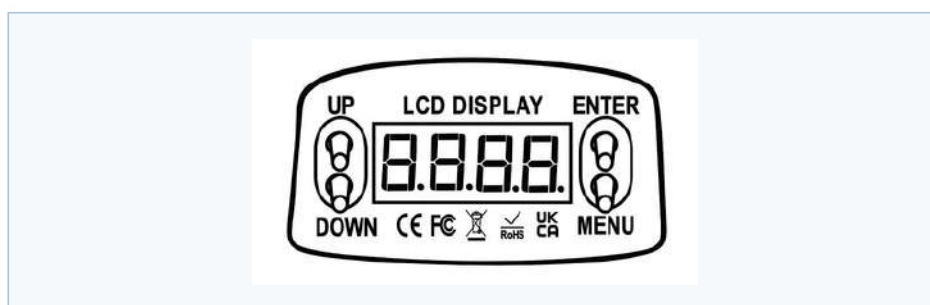
LASER / LIGHT SAFETY

Do not stare into the LEDs or laser apertures. Never aim the beams at people, animals, vehicles or aircraft. Avoid close-range direct viewing or photography.

TECHNICAL PARAMETERS

Item	Specification
Product Model	X28
Power Supply	AC 95-245 V, 50 Hz
Rated Power	200 W
Bee-Eye / Beam LEDs	12 x CREE 10 W RGBW LEDs
Laser Source	50 mW red laser + 100 mW green laser
Strobe LEDs	2 x 10 W white strobe + 4 x 10 W golden strobe
Decorative LEDs	35 color-changing LED-strip sections
Control Protocol	International standard DMX512
DMX Channels	28 channels
Control Modes	DMX512, master/slave, auto and sound-active
Dimming	0-100% ultra-smooth linear dimming
Strobe Rate	Up to 20 flashes per second
Net Weight	2.65 kg
Product Size	33 x 33 x 20 cm
Working Environment	Indoor use; keep dry and well ventilated

DISPLAY PANEL AND BUTTON OPERATION



Button	Function	Description
MENU	Menu	Move through main menu groups and return to the previous level.
UP	Increase	Increase a value or move to the next option.
DOWN	Decrease	Decrease a value or move to the previous option.
ENTER	Confirm	Enter a submenu and save the selected value.

IMPORTANT OPERATING NOTES

- Use MENU to select a main menu, then press ENTER to open the submenu.
- After changing a parameter, press ENTER to save it. The fixture resumes the last saved setting after restart.
- For master/slave operation, disconnect the DMX console signal from the master fixture.
- In DMX mode, when A001 is displayed, a flashing letter A indicates that a DMX signal is present.
- When several fixtures are linked and controlled by remote, enable the remote-control function only on the



MENU FUNCTIONS

No.	Display	Value	Function / Remark
1	Addr	001-512	Set the DMX starting address with UP or DOWN.
2	Chnd	-	Show the currently selected DMX channel mode.
3	Shou	See table below	Select DMX, test, auto or sound-active running modes.
4	SEns	0-100	Adjust sound sensitivity using UP or DOWN.
5	SPED	1-9	Adjust automatic-program running speed.
6	LEd	ON / OFF	ON: display remains lit. OFF: display turns off after 30 seconds.
7	disp	OFF / ON	OFF: normal display orientation. ON: reverse display orientation.
8	irC	ON / OFF	Enable or disable infrared remote-control reception.
9	rst	YES / NO	Perform a manual fixture reset.

SHOW MODE OPTIONS

Display	Mode / Effect
d512	DMX512 operating mode
Red / GrEE / BluE / Wht1	Red, green, blue or white light test mode
LESr / LESG	Red-laser or green-laser test mode
Wht2	White and golden strobe-light effect
A1	Auto Mode 1: laser + beam + bee-eye + strobe
A2	Auto Mode 2: laser + beam + bee-eye, without strobe
A3	Auto Mode 3: beam + bee-eye, without laser or strobe
S1 / S2	Sound-active Mode 1 / Sound-active Mode 2

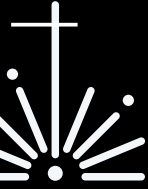
DMX512 CHANNEL FUNCTIONS - 1 TO 13

The X28 uses a standard 28-channel DMX512 profile. Set the correct starting address before connecting the controller. All values below are decimal values from 0 to 255.

CH	Function	DMX Value	Description / Remark
1	X-axis position	0-255	Position from 0 to 540 degrees.
2	X-axis speed	0-255	Movement speed from fast to slow.
3	Bee-eye rotation Bee-	0-127	Position from 0 to 180 degrees.
3	eye rotation Bee-eye	128-191	Clockwise rotation from slow to fast.
3	rotation	192-255	Counterclockwise rotation from slow to fast.
4	Beam motor 1	0-255	Arm position from 0 to 180 degrees.
5	Beam motor 2	0-255	Arm position from 0 to 180 degrees.
6	Beam motor 3	0-255	Arm position from 0 to 180 degrees.
7	Beam motor 4	0-255	Arm position from 0 to 180 degrees.
8	Beam motor 5	0-255	Arm position from 0 to 180 degrees.
9	Beam motor 6	0-255	Arm position from 0 to 180 degrees.
10	Beam motor 7	0-255	Arm position from 0 to 180 degrees.
11	Beam motor 8	0-255	Arm position from 0 to 180 degrees.
12	Master dimmer Bee-	0-255	Linear dimming from dark to bright.
13	eye / beam strobe	0-9	No strobe.
13	Bee-eye / beam strobe	10-255	Strobe speed increases from slow to fast.

DMX NOTE

For stable control, use a proper DMX cable, terminate the final fixture when required, and confirm that fixture address ranges do not overlap unless identical operation is intended.



DMX512 CHANNEL FUNCTIONS - 14 TO 28

CH	Function	DMX Value	Description / Remark
14	Bee-eye red	0-255	Red linear dimming 0-100%.
15	Bee-eye green	0-255	Green linear dimming 0-100%.
16	Bee-eye blue	0-255	Blue linear dimming 0-100%.
17	Bee-eye white	0-255	White linear dimming 0-100%.
18	Arm beam red	0-255	Red linear dimming 0-100%.
19	Arm beam green	0-255	Green linear dimming 0-100%.
20	Arm beam blue	0-255	Blue linear dimming 0-100%.
21	Arm beam white	0-255	White linear dimming 0-100%.
22	Red laser	0-255	Red-laser linear dimming 0-100%.
23	Green laser	0-255	Green-laser linear dimming 0-100%.
24	White strobe	0-255	Strobe speed increases from slow to fast.
25	Golden strobe	0-255	Strobe speed increases from slow to fast.
26	LED-strip macro	0-12	No function.
26	LED-strip macro	13-21	Red.
26	LED-strip macro	22-30	Green.
26	LED-strip macro	31-39	Blue.
26	LED-strip macro	40-48	Yellow.
26	LED-strip macro	49-57	Purple.
26	LED-strip macro	58-66	Cyan.
26	LED-strip macro	67-75	White.
26	LED-strip macro	76-255	31 flowing-light effects.
27	LED-strip macro speed	0-255	Effect speed increases from slow to fast.
28	Macro control	0-50	No function.
28	Macro control	51-150	Random automatic running.
28	Macro control	151-250	Sound-active automatic running.
28	Macro control	251-255	Reset; hold the value for approximately 3 seconds.

INFRARED REMOTE-CONTROL FUNCTIONS

Before use: Pull out the plastic battery-insulation tab from the bottom of the remote control. In linked master/slave operation, enable infrared reception only on the master fixture.

Key	Function
ON	Turn the fixture on.
OFF	Turn the fixture off.
DMX	Switch to DMX mode.
AUTO	Switch between automatic programs.
speed+ / speed-	Increase or decrease automatic-program speed.
voice	Switch to sound-active mode.
mic+ / mic-	Increase or decrease sound sensitivity.
1 / 2 / 3 / 4	Red / green / blue / white light.
5 / 6	Red laser / green laser.
7	White + golden strobe effect.
8 / 9 / 0	Auto Mode A1 / A2 / A3.
* / #	Sound-active Mode S1 / S2.



REMOTE-CONTROL TROUBLESHOOTING

- Confirm that menu item irC is set to ON.
- Aim the remote toward the infrared receiver on the fixture and operate it at close range.
- Remove the battery-insulation tab or replace the battery if the response is weak.
- Avoid strong direct sunlight or other infrared interference at the receiver.

SAFETY, INSTALLATION AND MAINTENANCE

DISCONNECT POWER

Disconnect the fixture from mains power before installation, inspection, cleaning or maintenance. Allow the housing and optical components to cool before touching them.

- Read the manual: Installation and operation personnel must understand the fixture functions before use.
- Indoor use: Keep the fixture away from rain, water droplets and prolonged humid conditions. If temporary outdoor use is unavoidable, provide complete weather protection.
- Ventilation: Keep air inlets and outlets clear. Do not cover the fixture during operation.
- Electrical supply: Use only a properly grounded AC supply within the rated voltage range.
- Mechanical safety: When suspended or installed at height, use a suitable clamp and an independent safety cable.
- Optical safety: Avoid prolonged direct viewing of LEDs or laser apertures. Never aim output at people, animals, vehicles or aircraft.
- No unauthorized modification: Do not open, modify or alter the fixture unless work is performed by qualified service personnel.

RECOMMENDED CLEANING AND INSPECTION

Interval	Procedure
Weekly	Wipe the outer housing with a soft, slightly damp, lint-free cloth.
Monthly	Clean lenses carefully with professional optical/glass cleaner and a soft cloth.
Monthly	Remove dust from ventilation openings and verify that cooling airflow is unobstructed.
Before each overhead use	Inspect screws, brackets, clamps, mounting points and the independent safety cable.
As required	Stop using the fixture immediately if there is abnormal noise, smell, heat, light output or movement.

STARSHINE LIGHTS SUPPORT

Product Model: X28

Website: www.starshinelights.com

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

