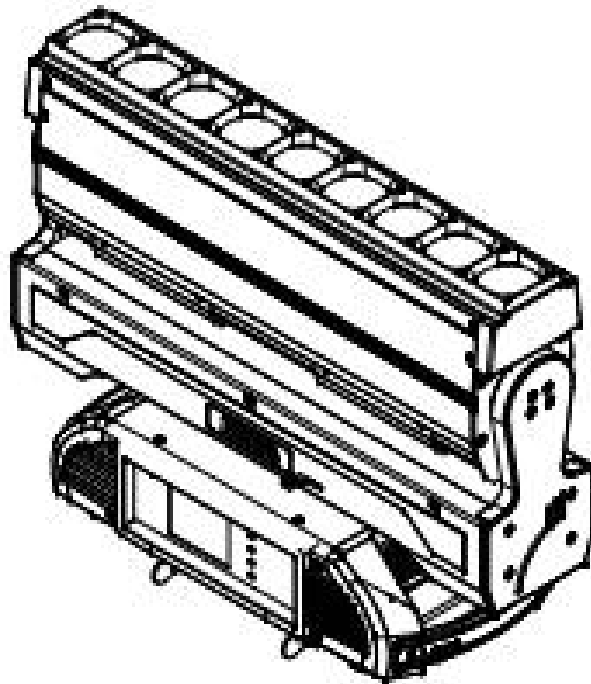


Tetra 9x40W LED Moving Head Light



(User Manual)

User's manual

Version 2.0

I. Description of the external structural diagram of the luminaire

Label Definition on the Back/Bottom Side of the Lamp

1-Lens array head with moving head function 2-Ethernet port 3-5-pin DMX signal input interface 4-Power input interface 5-Fuse holder 6-Power output interface 7-5-pin DMX signal output interface 8-Ethernet port 9-Pitch locking switch 10-Side splicing lock 11-Lamp base 12-Heat dissipation vent 13-QVGA color touch display screen 14-Body function buttons 15-Safety cable mounting point 16-Mounting adapter bracket

1.1 Specifications for Locking Mechanisms in Lamp Head Transportation Systems

Before packaging and long-distance transportation, the lamp head must be vertically aligned with its tip upward, and the tilt lock (9) must be set to the [locked position]. Prior to powering on the lamp, ensure the lock is released by setting it to the [unlocked position] before operating the lamp head.

1.2 Parallel Connection Function for Multiple Light Sources

The side lock (10) is used for securing multiple luminaires when connected horizontally: when the lock is engaged, positioning pins on both sides of the housing protrude and fit into the corresponding positioning holes of adjacent luminaires; all side locks must be unlocked before disassembling or assembling the luminaire assembly; the side locks must remain unlocked prior to installing the luminaires into the top four-unit housing.

Safety warning: Do not direct light from one fixture onto another. Required: Before turning off a fixture, enable the [PARKING POSITION] function to prevent sunlight from damaging internal LED components.

Parking Location Function Description

The parking function is located in the DMX power special channel (channels 120–129). When enabled, the built-in gravity sensor automatically identifies the installation type (on-the-ground placement or mounted on a bracket) and rotates the lamp head downward. This orientation completely blocks direct sunlight, preventing burn damage to the LED chip array from intense light.

II. 4.3 Installation of Soft Light Filters and Transparent Protective Lens Films

Security prerequisite: Before installing the lenses, disconnect the lamp from the main power supply.

Light Filter Installation Steps

1. Each of the two zoom modules is equipped with one soft-focus filter.
2. Use 12 M3×8 screws with flat washers for tightening and securing.
3. Installation requirement: The matte finish must face the lens.

Installation Steps for the Transparent Protection Lens

1. Each of the two zoom modules is equipped with one transparent protective lens.
2. Use 12 M3×8 screws with rubber seals for secure fastening.

III. 4.4 Signal Wiring Specifications for DMX512

The luminaire is standardly equipped with a 5-pin XLR input and output socket. For connecting the control panel to the luminaire or connecting two luminaires in series, a dedicated RS485 shielded twisted-pair cable with a 5-pin XLR connector must be used.

5-pin XLR Pin Definition Table

table

Pin Number DMX Output (Main Port) DMX Input (Public Seat)

1	Shield Ground Wire	Shield Ground Wire
2	Signal Negative (-)	Signal Negative (-)
3	Signal Positive (+)	Signal Positive (+)
4	Unspecified vacancy	Unspecified vacancy
5	Unspecified vacancy	Unspecified vacancy

DMX Series Cabling Standard

1. Series connection method: DMX output from the first lamp → DMX input to the next lamp, connected sequentially.
2. Maximum capacity per DMX link: 32 luminaires;
3. Terminal resistor requirement: The DMX output port of the final luminaire in the link must be connected with a terminal resistor. Installation method: Solder a 120 Ω resistor onto a 3/5-pin XLR plug, connecting it across pin 3 (signal positive) and pin 2 (signal negative).

IV. 7 Whole Machine Control Menu System

The Robin Tetra 2 features a QVGA touch screen with a backup battery and supports: custom lighting parameters, device status monitoring, hardware self-diagnosis, and offline program programming. It offers two operation modes: physical buttons and touchscreen interaction.

4.1 Functions of Physical Buttons on the Device Body

[ESC Exit Key]: Close the current menu; changes will not be saved. [NEXT Next Item / PREV Previous Item]: Switch menu items or modify parameter values. [ENTER/Screen Light Up]: Enter the selected menu and confirm parameter changes; when the lamp is powered off, short-press to illuminate the screen.

4.2 Explanation of Touch Screen Icons

1. Return Arrow: Go to the previous menu page
 2. Up and Down Arrow: Scroll page content vertically
 3. Confirm icon: Save current changes and perform the corresponding action
 4. Delete icon: Discard changes and exit the menu
 5. Confirm + Copy icon: Save current step parameters and copy them to the next program step
 6. Warning Triangle Icon: Device Failure Alert
 7. Ethernet ID: The cable is connected properly
 8. Screen Flip Icon: rotates the screen by 180°
 9. Slider Adjustment Icon: Slider-based visual parameter adjustment
 10. Digital keypad icon: Enter precise values manually
 11. Filter Maintenance Icon: Air filter cleaning cycle has expired
1. Maintenance recommendation: Run the device for at least 7 hours per week to maintain full battery charge.
 2. Service Life: Under standard ambient temperatures, the battery lasts ≥ 2 years; at extreme temperatures, service life may shorten to within 1 year and may experience leakage; damage caused by overheating is not covered by warranty.
- Preoperative requirements: Before using the lamp for the first time, go to Menu [Device Settings → Date and Time Settings] to calibrate the system time (the device operation log depends on this time).

V. 7.1 Address Menu (Address)

1. DMX starting address: Sets the starting channel for the lamp's DMX signal; Address flashing = No DMX signal received, or the address exceeds the total length of the current channel mode
2. DMX Channel Preset: Switch between 6 different control channel modes
3. View the current channel table: displays all channel function definitions in the current mode
4. Ethernet Configuration Details
 1. Ethernet mode: Enable the ArtNet protocol with parameters /gMA1 /gMA2 /sACN/ to convert Ethernet signals to DMX (lighting units act as signal converters; standard DMX fixtures can be connected in series downstream, requiring only one network cable per link).
 2. IP Address/ subnet mask: The entire LAN IP address must be unique; includes a default IP (only the first two segments, 2/10, can be modified) and a fully customizable IP (all four segments are adjustable)
 3. ArtNet Domain: Range 0–255

6.4 Other Information Items

1. DMX Real-Time Values: Reads current values from all DMX channels in real time
2. Wireless DMX Status: Wireless module pairing and unpairing functionality
3. Power Special Channel Status: View the current on/off status of the special function channel
4. Firmware Version: Display, Tilt Drive Board, LED Drive Board, Pixel Control Board Version Number
5. Device Identification Code: MAC Address, RDM Device UID, Device Name
6. Operation Log: Stores up to 8,000 records, automatically replacing old data when full; records power-on/off cycles, overheating, equipment failures, and installation positions for troubleshooting

VII. 7.3 Equipment Settings Menu (Personality)

1. DMX Channel Presets & Preview (same as the Address Menu function)
2. DMX signal input modes: Wired DMX / Wireless DMX / Wireless input to wired output (pop-up prompt when no built-in wireless module is present)
3. Microphone sensitivity: 1 (highest sensitivity) to 20 (lowest sensitivity)
4. Dimming curve: Linear curve / Quadratic curve
5. LED flicker PWM frequency: Standard 300 Hz / High frequency 600 Hz; supports ± 6 -level frequency adjustment
6. Default startup posture: Default position of the lens and zoom when no DMX signal is present
7. Screen Parameters Settings
 4. Screen display orientation: Normal / Reversed 180° / Gravity-activated rotation (factory default)

VIII. 7.4 Manual Control Menu (Manual Control)

5. Reset the entire system
6. Separate reduction of the pitch axis
7. Zoom System Reset
8. Maze effect reset

1. Manual effect control: Without a console, adjust all channel values directly on the screen for hardware maintenance and calibration

X. 7.6 Maintenance and Calibration Menu (Service)

10.1 DMX Value Pre-Adjustment

Before precise hardware calibration, manually adjust all moving parts to the reference position.

10.2 Fine Hardware Calibration

1. Effect Calibration: Pitch axis fine adjustment, Kaleidoscope 1 rotation fine adjustment, Kaleidoscope 2 rotation fine adjustment
2. 5600K Standard White Dot Color Calibration Procedure:
3. DMX dimming is fully enabled; CTC channels set to 64 (standard 5600 K), zoom channels to 128; device settings enable white point at 8000 K and RGBW color mode.
4. The distance between the photometer and the luminaire shall be ≥ 3 meters.
5. Tune the saturation of red, green, blue, and white colors to correct for standard chromatic aberration $\Delta u'v'=0$
6. Click confirm to save parameters; the lighting will restart automatically.
7. Pixel Color Correction: Uniform color calibration for each LED (only the 5600K white point supports user adjustment; other colors are factory-calibrated)
8. Load factory default calibration parameters

10.3 Firmware Software Upgrade

Supports firmware upgrades via PC serial port DMX cable or standard USB interface; Upgrade files supported: Windows (.zip), Linux (.tbz), macOS (.dmg – requires XQuartz installation). Upgrade steps:

1. Disconnect the DMX control signal cable
2. Go to [Maintenance → Software Update] mode
3. The computer has closed other background programs and is running the upgrade software
4. Select the corresponding port: Serial Port COM / Universal USB Converter
5. After the connection is established, click Start Upload. You can choose incremental upgrade (only update new modules) or full module upgrade.
6. The upgrade process cannot be interrupted; if interrupted, re-flashing is required. After completion, the device returns to factory settings (incremental upgrades depend on the module). Multiple lamps can be upgraded in batches using dedicated batch upgrade software via RDM or Ethernet for mass flashing.

XI. 8 RDM Remote Device Management Protocol

RDM is the DMX512 bidirectional extension protocol, compatible with standard DMX devices; the console can read and write lamp parameters and detect faults. The Robin Tetra 2 device (ID: 0x0108) supports commands including device search, DMX address read/write, screen brightness adjustment, tilt/reverse rotation, full-unit reset, temperature reading, wireless module unbinding, and device information retrieval.

12.9 REAP Ethernet Web Page Management Platform

The computer and lighting fixtures are connected to the same LAN, allowing web-based access to the fixtures. You can view device parameters, real-time temperature, and fault logs. The default fixture IP range is 2.x.x.x. The complete user manual is available for download on the official website.

XIII. 10 Faults and Information Messages

13.1 Meaning of Common Icons

Filter maintenance icon: Air filter cleaning cycle has expired. Reset timing after cleaning Yellow triangle warning icon: Hardware failure. Click the icon or press ESC to view fault details

13.2 Explanation of Fault Codes

1. Temperature sensor malfunction: Communication between the lamp head's temperature sensing chip and other components has been interrupted.
2. Pitch fault 1/2: The pitch magnetic positioning sensor, stepper motor, and drive board are damaged; reset cannot restore normal operation.
3. EEPROM storage failure: Hardware damage to the device's memory chip
4. Charge the backup battery: It takes 6 hours of continuous charging to complete
5. Backup battery damaged: Replace the display's backup battery immediately
6. Clean the air filter: The filter has been clogged for too long
7. Base Fan 1 Fault: The intake fan is open-circuited or damaged; replace it
8. Base Fan 2 Fault: The exhaust fan is open-circuited or damaged; replace it

XIV. 11. Overall Technical Specifications of the Device

14.1 Electrical Parameters

- Power Supply Voltage: Wide-voltage adaptive range of 100–240 V, 50/60 Hz
- Fuse specification: T 8A
- Maximum power: 500 W, Power factor: 0.98
- Maximum input current: 16 A (US version: 13 A)
- Maximum output current: 12 A (9 A for the US version)

14.2 Optical Parameters

- Light Source: 18 independently controllable RGBW four-in-one LED pixels
- Theoretical lifespan of LED: $\geq 20,000$ hours
- Color System: Dual modes (RGBW/CMY); Built-in 66 preset virtual color palettes; Continuous adjustment of color temperature from 2700K to 8000K; Supports 2700K/3200K halogen lamp simulation
- Zoom System: Electric linear zoom; Beam angle: 4° – 45° ; Supports simultaneous zoom across the entire unit and independent zoom of left and right modules
- Special Effects System: Two sets of bidirectional rotating kaleidoscopes; Stroboscopic frequency range: 0.3–20 Hz; 16-bit ultra-smooth dimming with no black spots

14.3 Musculoskeletal System

Pitch angle: 191° ; 16-bit high-precision resolution; automatic position correction; mechanical pitch locking mechanism

14.4 Control Protocol

1. Wired protocols: DMX512, RDM, ArtNet, gMA1, gMA2, sACN, Kling-Net; Ethernet single-link supports up to 8 devices in series
2. Wireless versions available as options: CRMX/W-DMX G2/G3/G4S; Frequency band: 2402–2480 MHz; Transmission power: 100 mW; Reception sensitivity: -93 dBm
3. The DMX channel mode offers six options: 42,62,76,85,89, and 98 channels.

14.5 Installation and Environmental Parameters

- Installation method: horizontal floor installation or vertical truss lifting; supports multi-unit lateral assembly; equipped with safety steel cable mounting holes and 2 lifting adapters.

- Maximum ambient temperature: 40°C; Maximum allowable temperature of the housing: 70°C
- Safety distance: ≥0.5 m from flammable objects; ≥1 m from the target object to be irradiated
- Protection Level: IP2X
- Maximum heat dissipation: 1535 BTU/h

14.6 Weight and Dimensions

Net weight of the entire unit: 18.1 kg (39.9 pounds); detailed millimeter dimensions refer to the drawings

14.7 Standard Factory Accessories

1 main power supply cable, 2 lifting adapter brackets, and a paper user manual

14.8 Optional Accessories

CRMX Wireless Upgrade Kit, 35 kg load-bearing safety steel cable, Euro/US standard 2-meter/5-meter power cord series cable, adjustable Omega mounting clip, 2° flexural plate, transparent protective lens

XV. 12 Overall Maintenance and Cleaning of the Equipment

High-risk warning: Always disconnect the mains power supply before performing any cleaning, disassembly, or maintenance tasks!

15.1 Shell Cleaning

Wipe with a dust-free soft cloth using a neutral diluted detergent; alcohol, acetone, and organic solvents are strictly prohibited.

15.2 Dust Removal Inside the Entire Machine

Use a vacuum cleaner and low-pressure compressed air annually to remove internal dust; clean the base cooling fan once per year.

15.3 Professional Cleaning Steps for LED Lenses

1. Low-pressure compressed air is used to remove surface dust.
2. Wipe the stain with a dust-free cloth moistened with distilled water and a neutral detergent.
3. Alcohol-free anti-static screen cleaner; polish until completely dry. Prohibited: immerse lenses in liquids, alcohol, or use strong solvents for wiping.

15.4 Maintenance of the Base Air Filter

The filter cover is magnetically attached and can be cleaned with a vacuum cleaner or washed and dried. After cleaning, the filter timing will reset automatically.

15.5 fuse replacement procedure

1. Cut off the mains power; unscrew the fuse holder counterclockwise with a screwdriver.
2. Remove the damaged fuse.
3. Replace with a T 8A fuse of the same specification
4. Reinsert the fuse holder and tighten it.

15.6 Inspection of the Plastic Housing

Inspect the plastic components of the aircraft body every two months for cracks or damage; any cracks caused by transportation or aging require replacement of the affected parts, and continued use is prohibited.

15.7 12.1 Installation and Removal of Optical Modules (Only for Professional Maintenance Personnel)

Disassembly Process

1. The lamp is powered on; enter the manual menu, set the main zoom channel to 0, and fully retract the module into the lamp head.
2. Disconnect the mains power and loosen the guide pin fixing screw.
3. Insert the M3 long auxiliary screw into the module's reserved hole and pull out the module smoothly. Do not touch the lens surface directly with bare hands.

Reassembly Process

1. Power on, tilt 128, main zoom 255
2. The module guide pin is aligned with the groove, and the screw rod is aligned with the motor interface.
3. Gradually decrease the zoom value; the motor will automatically pull the module into position, ensuring it remains level.
4. Reciprocal zoom test confirms smooth motion without lag
5. Set zoom to zero, power off, tighten the guide pin fixing screw, remove the auxiliary screw, then power on again

15.8 12.2 Product Disposal

When disposing of equipment, strictly comply with local electronic waste recycling regulations for proper classification and handling.

16.13 Record of Instruction Manual Version Updates

table

Manual Version	date of issue	Update Content
1.1	2019.12.07	DMX Channel Table Update V1.2
1.2	2020.01.11	Additional Instructions for Installing and Removing the Optical Module
1.3	2020.02.13	Add Light Curve Chart
1.4	2020.03.10	New Silent Fan Mode added to DMX Table V1.3
1.5	2020.05.20	Added RG-2 Light Hazard Warning Label
1.6	2020.10.01	Added automatic white pixel function for DMX Table V1.4
1.7	2021.04.16	DMX Channel Table V1.5 Update
1.8	2022.01.28	The Ethernet series limit has been changed to 8 devices
1.9	2023.02.08	Adjust the pitch movement angle parameter
2.0	2023.03.03	New Pixel Color Calibration Feature

17.14 Description of the Luminance Curve

1. Minimum zoom: 4°; Total luminous flux: 5831 lumens; Includes spot diameter at different distances and RGBW illuminance distribution tables
2. Maximum Zoom: 45°; Total Luminous Flux: 8,439 lumens; Wide-angle illuminance distribution curve

18.15 Appendix: Complete Description of DMX Channels

18.1 Overview of the 6 DMX Modes (Underlined modes support independent control of individual pixels)

table

Model Number	Total Number of Channels	Brief Description of Core Functions
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Model Number	Total Number of Channels	Brief Description of Core Functions
pattern 1	34	16-bit pitch angle control; zoned control; 8-bit color dimming; kaleidoscope effect; no independent pixel control
pattern 2	56	16-bit pitch angle; zoned control; 16-bit color; pattern effects; kaleidoscope; no independent pixels
pattern 3	97	16-bit pitch; zoning; 16-bit color; kaleidoscope; independent control of individual RGB pixels
pattern 4	115	16-bit pitch; Zoning; 16-bit color; Kaleidoscope; Independent control of each RGBW pixel
pattern 5	110	16-bit pitch; zoning; 16-bit color; pattern effects; kaleidoscope; independent control for each RGB pixel
pattern 6	128	16-bit pitch; zoning; 16-bit color; pattern effects; kaleidoscope; independent control of each RGBW pixel

18.2 Built-in Parameter Table for 66 Types of Virtual Color Filter Papers (RGBW)

The complete film-standard color filter corresponds to the four DMX numerical channels (red, green, blue, white), encompassing all color parameters including Sunset Red, Lavender, Sky Blue, Mint Green, Amber, Indigo, and Fluorescent Green.

18.3 DMX Channel Function Comparison Table

Comprehensive features include: Mosaic shutter, Mosaic dimming, main zoom, independent left/right zooms, pattern selection/zoom/rotation/color control, global strobe, 8/16-bit main dimming, independent RGBW channels for pixels 1–18, and dedicated power function channel; each channel is labeled with DMX value ranges and control types (segmented switching/linear scaling).

Additional Comment

- 1. Channel marked with*: adjustable only within 10 seconds after the lamp is turned on;
- 2. The tungsten wire simulation function alters the dimming curve response.
- 3. RGBW/CMY color switching occurs through a dedicated power channel;
- 4. The LED has a default PWM frequency of 300 Hz and supports fine adjustment within ±6 levels.

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Channel Table

42CH

42 CH	Channel Name	Channel Value	Channel Function
1	X axle	0-255	0-540°
2	X-axis Fine Adjustment	0-255	X-axis Fine Adjustment
3	Y axle	0-255	0-180°

4	Y-axis Adjustment	0-255	Y-axis Adjustment
5	X-axis Continuous Scale	0-127	NF
		128-189	The X-axis rotates continuously in the forward direction, from fast to slow.
		190-193	Stop rotating
		194-255	The X-axis rotates continuously in reverse direction, from slow to rapid.
6	X/Y Axis Speed	0-255	X/Y axis speeds decrease from fast to slow
7	specific function	0-10	NF
		11-24	Dimming Speed 1
		25-37	Dimming Speed 2
		38-42	Dimming Curve 1
		43-47	Dimming Curve 2
		48-52	Dimming Curve 3
		53-57	Dimming Curve 4
		58-140	NF
		141-200	XY Axis Reset (5S)
		201-255	Reset all motors (5 seconds)
8	LED frequency	0-4	NF
		5-9	4KHz
		10-14	NF
		15-19	20KHz
		20-255	NF
9	LED frequency fine tuning	0-255	NF
10	background color	0	NF
		1-2	Medium-sized earthy amber
		3-4	Sunset Red
		5-6	Flame Red
		7-8	Bright Red
		9-10	Lavender Purple
		11-12	sky blue
		13-14	Medium Powder
		15-16	Moss green
		17-18	lime green
		19-20	Dull Green
		21-22	Medium Purple
		23-24	Light Lavender Purple
		25-26	Light amber
		27-28	Straw Yellow
		29-30	Summer Blue
		31-32	dark green

	33-34	pinkish red
	35-36	Dark Pink
	37-38	peacock blue
	39-40	mauve pale
	41-42	Steel Blue
	43-44	light blue
	45-46	Color Filter 122 (Fern Green)
	47-48	Color Filter 182 (Light Red)
	49-50	Filter Film 121 (Green Filter)
	51-52	Color Filter 128 (Light Powder)
	53-54	Color Filter 131 (Ocean Blue)
	55-56	Color Filter 132 (Medium Blue)
	57-58	Color Filter 134 (Golden Amber)
	59-60	Color Filter 135 (Deep Golden Amber)
	61-62	Color Filter 136 (Light Lavender Purple)
	63-64	Color Filter 137 (Special Lavender Purple)
	65-66	Color Filter 138 (Light Green)
	67-68	Color Filter 798 (Pupa Powder)
	69-70	Color Filter 141 (Light Blue)
	71-72	Color Filter 147 (Apricot)
	73-74	Color Filter 148 (Bright Rose)
	75-76	Color Filter 152 (Light Gold)
	77-78	Color Filter 154 (Light Rose)
	79-80	Color Filter 157 (Pink)
	81-82	Color Filter 143 (Light Navy Blue)
	83-84	Color Filter 162 (Earth Amber)
	85-86	Color Filter 164 (Flame Red)
	87-88	Color Filter 165 (Sunlight Blue)
	89-90	Color Filter 169 (Light Purple Tone)
	91-92	Color Filter 170 (Deep Lavender Purple)
	93-94	Color Filter 172 (Lake Blue)
	95-96	Color Filter 194 (Surprise Pink)
	97-98	Color Filter 180 (Dark Lavender Purple)
	99-100	Color filter 181 (Congo Blue)
	101-102	Color Filter 197 (Alice Blue)
	103-104	Color filter 201 (full CT blue)
	105-106	Color filter 202 (semi-CT blue)
	107-108	Color filter 203 (quartile CT blue)
	109-110	Color filter 204 (full CT orange)
	111-112	Color filter 219 (fluorescent green)
	113-114	Color filter 206 (quarter CT orange)
	115-116	Color Filter 247 (Green Reduction Filter)

		117-118	Color Filter 248 (Half-Reduction Green Filter)
		119-120	Color filter 281 (three-fourths CT blue)
		121-122	Color filter 285 (three-quarters CT orange)
		123-124	Color Filter 352 (Glacial Blue)
		125-126	Color Filter 353 (Light Blue)
		127-128	Color Filter 507 (Madge)
		129-130	Color Filter 778 (Millennium Gold)
		131-132	Color Filter 793 (Vanity)
		133-235	Original DMX Value
		236-245	Rainbow Effect (With Fade In) Slow → Fast
		246-255	Rainbow Effect (No fade-in) Slow → Fast
11	Background Color: Red	0-255	Background Red Dimming 0-100%
12	Background Color: Green	0-255	Background Green Dimming 0–100%
13	Background Blue	0-255	Background Blue Dimming 0–100%
14	Background White	0-255	Background White Dimming 0-100%
15	background CTO	0	NF
		1-255	From cold to warm
16	Background Stroboscopic Effect	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down from the beginning.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
17	Background Dimming	0-255	Dimming 0–100%
18	Color Mixing Mode	0-9	Global Color
		10-19	Maximum Value Mode
		20-29	Minimum Value Mode
		30-39	Multiplication Mode (Whole Control * Point Control)
		40-49	Addition Mode (Whole Control + Point Control)
		50-59	Subtraction Mode (Whole Control-Point Control)
		60-69	Reverse Subtraction Mode (Point Control-Overall Control)
		70-79	Color Background

		80-127	DMX
		128	Overall Control Priority
		129-254	Cross Gradient (from full-range control to point-controlled)
		255	Point Control Priority
19	Flower Effect 1	0	NF
		1-127	From fast to slow in the forward direction
		128	Stop
		129-255	Reverse from slow to fast
20	Flower Effect 1: Red	0-255	Dimming 0–100%
21	Flower Effect 1: Green	0-255	Dimming 0–100%
22	Flower Effect 1: Blue	0-255	Dimming 0–100%
23	Flower Effect 1: White	0-255	Dimming 0–100%
24	Flower Effect 1: Stroboscopic Light	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down from the beginning.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
25	Flower Effect 1: Dimming	0-255	Dimming 0–100%
26	Flower Effect 2	0	NF
		1-127	From fast to slow in the forward direction
		128	Stop
		129-255	Reverse from slow to fast
27	Flower Effect 2 Red	0-255	Dimming 0–100%
28	Flower Effect 2: Green	0-255	Dimming 0–100%
29	Flower Effect 2 Blue	0-255	Dimming 0–100%
30	Flower Effect 2 White	0-255	Dimming 0–100%
31	Flower Effect 2: Stroboscopic Light	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast

		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down from the beginning.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
32	Flower Effect 2 Dimming	0-255	Dimming 0–100%
33	Flower Effect 3	0	NF
		1-127	From fast to slow in the forward direction
		128	Stop
		129-255	Reverse from slow to fast
34	Flower Effect 3 Red	0-255	Dimming 0–100%
35	Flower Effect 3: Green	0-255	Dimming 0–100%
36	Flower Effect 3 Blue	0-255	Dimming 0–100%
37	Flower Effect 3 White	0-255	Dimming 0–100%
38	Flower Effect: Stroboscopic Light (3 Frequencies)	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down from the beginning.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
39	Flower Effect 3 Dimming	0-255	Dimming 0–100%
40	Final Focus Adjustment	0-255	From bottom to top
41	Total Strobismus	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down from the beginning.
		160-191	opening the light

		192-223	Random stroboscopic effect, from slow to fast
42	Total Dimming	0-255	Dimming 0–100%

62CH

62 CH	Channel Name	Channel Value	Channel Function
1	X axle	0-255	0-540°
2	X-axis Fine Adjustment	0-255	X-axis Fine Adjustment
3	Y axle	0-255	0-180°
4	Y-axis Adjustment	0-255	Y-axis Adjustment
5	X-axis Continuous Scale	0-127	NF
		128-189	The X-axis rotates continuously in the forward direction, from fast to slow.
		190-193	Stop rotating
		194-255	The X-axis rotates continuously in reverse direction, from slow to rapid.
6	X/Y Axis Speed	0-255	X/Y axis speeds decrease from fast to slow
7	specific function	0-10	NF
		11-24	Dimming Speed 1
		25-37	Dimming Speed 2
		38-42	Dimming Curve 1
		43-47	Dimming Curve 2
		48-52	Dimming Curve 3
		53-57	Dimming Curve 4
		58-140	NF
		141-200	XY Axis Reset (5S)
		201-255	Reset all motors (5 seconds)
8	LED frequency	0-4	NF
		5-9	4KHz
		10-14	NF
		15-19	20KHz
		20-255	NF

9	LED frequency fine tuning	0-255	NF
10	background color	0	NF
		1-2	Medium-sized earthy amber
		3-4	Sunset Red
		5-6	Flame Red
		7-8	Bright Red
		9-10	Lavender Purple
		11-12	sky blue
		13-14	Medium Powder
		15-16	Moss green
		17-18	lime green
		19-20	Dull Green
		21-22	Medium Purple
		23-24	Light Lavender Purple
		25-26	Light amber
		27-28	Straw Yellow
		29-30	Summer Blue
		31-32	dark green
		33-34	pinkish red
		35-36	Dark Pink
		37-38	peacock blue
		39-40	mauve pale
		41-42	Steel Blue
		43-44	light blue
		45-46	Color Filter 122 (Fern Green)
		47-48	Color Filter 182 (Light Red)
		49-50	Filter Film 121 (Green Filter)
		51-52	Color Filter 128 (Light Powder)
		53-54	Color Filter 131 (Ocean Blue)
		55-56	Color Filter 132 (Medium Blue)
		57-58	Color Filter 134 (Golden Amber)
		59-60	Color Filter 135 (Deep Golden Amber)
		61-62	Color Filter 136 (Light Lavender Purple)
		63-64	Color Filter 137 (Special Lavender Purple)
		65-66	Color Filter 138 (Light Green)
		67-68	Color Filter 798 (Pupa Powder)
		69-70	Color Filter 141 (Light Blue)
		71-72	Color Filter 147 (Apricot)
		73-74	Color Filter 148 (Bright Rose)

		75-76	Color Filter 152 (Light Gold)
		77-78	Color Filter 154 (Light Rose)
		79-80	Color Filter 157 (Pink)
		81-82	Color Filter 143 (Light Navy Blue)
		83-84	Color Filter 162 (Earth Amber)
		85-86	Color Filter 164 (Flame Red)
		87-88	Color Filter 165 (Sunlight Blue)
		89-90	Color Filter 169 (Light Purple Tone)
		91-92	Color Filter 170 (Deep Lavender Purple)
		93-94	Color Filter 172 (Lake Blue)
		95-96	Color Filter 194 (Surprise Pink)
		97-98	Color Filter 180 (Dark Lavender Purple)
		99-100	Color filter 181 (Congo Blue)
		101-102	Color Filter 197 (Alice Blue)
		103-104	Color filter 201 (full CT blue)
		105-106	Color filter 202 (semi-CT blue)
		107-108	Color filter 203 (quartile CT blue)
		109-110	Color filter 204 (full CT orange)
		111-112	Color filter 219 (fluorescent green)
		113-114	Color filter 206 (quarter CT orange)
		115-116	Color Filter 247 (Green Reduction Filter)
		117-118	Color Filter 248 (Half-Reduction Green Filter)
		119-120	Color filter 281 (three-fourths CT blue)
		121-122	Color filter 285 (three-quarters CT orange)
		123-124	Color Filter 352 (Glacial Blue)
		125-126	Color Filter 353 (Light Blue)
		127-128	Color Filter 507 (Madge)
		129-130	Color Filter 778 (Millennium Gold)
		131-132	Color Filter 793 (Vanity)
		133-235	Original DMX Value
		236-245	Rainbow Effect (With Fade In) Slow → Fast
		246-255	Rainbow Effect (No fade-in) Slow → Fast
11	Background Color: Red	0-255	Background Red Dimming 0-100%
12	Background Red Adjustment	0-255	Background Red Fine-Tuning: 0–100%

13	Background Color: Green	0-255	Background Green Dimming 0–100%
14	Background Green Adjustment	0-255	Background Green Fine-Tuning: 0–100%
15	Background Blue	0-255	Background Blue Dimming 0–100%
16	Background Blue Adjustment	0-255	Background Blue Fine-Tuning: 0–100%
17	Background White	0-255	Background White Dimming 0-100%
18	Background White Adjustment	0-255	Background White: Fine adjustment – Dimming range 0–100%
19	background CTO	0	NF
		1-255	From cold to warm
20	Background Stroboscopic Effect	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down from the beginning.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
21	Background Dimming	0-255	Background Dimming 0–100%

22	Background Dimming Fine Adjustment	0-255	Background dimming adjustment: 0–100%
23	Color Mixing Mode	0-9	Global Color
		10-19	Maximum Value Mode
		20-29	Minimum Value Mode
		30-39	Multiplication Mode (Whole Control * Point Control)
		40-49	Addition Mode (Whole Control + Point Control)
		50-59	Subtraction Mode (Whole Control-Point Control)
		60-69	Reverse Subtraction Mode (Point Control-Overall Control)
		70-79	Color Background
		80-127	DMX
		128	Overall Control Priority
		129-254	Cross Gradient (from full-range control to point-controlled)
		255	Point Control Priority
24	Flower Effect 1	0	NF
		1-127	From fast to slow in the forward direction
		128	Stop
		129-255	Reverse from slow to fast
25	Flower Effect 1: Red	0-255	Dimming 0–100%
26	Flower Effect 1: Green	0-255	Dimming 0–100%
27	Flower Effect 1: Blue	0-255	Dimming 0–100%
28	Flower Effect 1: White	0-255	Dimming 0–100%
29	Flower Effect 1: Stroboscopic Light	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down from the beginning.
		160-191	opening the light

		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
30	Flower Effect 1: Dimming	0-255	Dimming 0–100%
31	Flower Effect 2	0	NF
		1-127	From fast to slow in the forward direction
		128	Stop
		129-255	Reverse from slow to fast
32	Flower Effect 2 Red	0-255	Dimming 0–100%
33	Flower Effect 2: Green	0-255	Dimming 0–100%
34	Flower Effect 2 Blue	0-255	Dimming 0–100%
35	Flower Effect 2 White	0-255	Dimming 0–100%
36	Flower Effect 2: Stroboscopic Light	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down from the beginning.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
37	Flower Effect 2 Dimming	0-255	Dimming 0–100%
38	Flower Effect 3	0	NF
		1-127	From fast to slow in the forward direction
		128	Stop
		129-255	Reverse from slow to fast

39	Flower Effect 3 Red	0-255	Dimming 0–100%
40	Flower Effect 3: Green	0-255	Dimming 0–100%
41	Flower Effect 3 Blue	0-255	Dimming 0–100%
42	Flower Effect 3 White	0-255	Dimming 0–100%
43	Flower Effect: Stroboscopic Light (3 Frequencies)	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down from the beginning.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
44	Flower Effect 3 Dimming	0-255	Dimming 0–100%
45	Final Focus Adjustment	0-255	From bottom to top
46	Main Focus Adjustment & Fine Adjustment	0-255	Tune from bottom to top
47	effect	0-2	NF
		3-4	Effect 1
		5-6	Effect 2
		7-8	Effect 3
		9-10	Effect 4

		11-12	Effect 5
		13-14	Effect 6
		15-16	Effect 7
		17-18	Effect 8
		19-20	Effect 9
		21-22	Effect 10
		23-24	Effect 11
		25-26	Effect 12
		27-255	DMX
48	Effect Repeat Count	0-255	From few to many
49	Effect Speed	0	NF
		1-127	From fast to slow
		128	Stop
		129-255	From slow to fast
50	Effect Gradient	0-255	Effect Gradient
51	Effect Transition	0-255	Effect Transition
52	Effect Cross Gradient	0-255	Cross Gradient
53	Effect Color: Red	0-255	Dimming 0–100%
54	Effect Color: Green	0-255	Dimming 0–100%
55	Effect Color: Blue	0-255	Dimming 0–100%
56	Effect: White	0-255	Dimming 0–100%
57	Effect Color Macro	0-2	NF
		3-8	Color Macro 1
		9-14	Color Macro 2
		15-20	Color Macro 3
		21-26	Color Macro 4
		27-32	Color Macro 5

		33-38	Color Macro 6
		39-44	Color Macro 7
		45-50	Color Macro 8
		51-56	Color Macro 9
		57-62	Color Macro 10
		63-68	Color Macro 11
		69-74	Color Macro 12
		75-80	Color Macro 13
		81-86	Color Macro 14
		87-92	Color Macro 15
		93-98	Color Macro 16
		99-104	Color Macro 17
		105-110	Color Macro 18
		111-116	Color Macro 19
		117-122	Color Macro 20
		123-128	Color Macro 21
		129-134	Color Macro 22
		135-140	Color Macro 23
		141-255	DMX
58	Effect Stroboscopic Light	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down from the beginning.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
59	Effect Dimming	0-255	Dimming 0–100%
60	Total Strobismus	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down from the beginning.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast

61	Total Dimming	0-255	Dimming 0–100%
62	Main Dimming & Fine Adjustment	0-255	fine-tuning

76CH

76 CH	Channel Name	Channel Value	Channel Function
1	X axle	0-255	0-540°
2	X-axis Fine Adjustment	0-255	X-axis Fine Adjustment
3	Y axle	0-255	0-180°
4	Y-axis Adjustment	0-255	Y-axis Adjustment
5	X-axis Continuous Scale	0-127	NF
		128-189	The X-axis rotates continuously in the forward direction, from fast to slow.
		190-193	Stop rotating
		194-255	The X-axis rotates continuously in reverse direction, from slow to rapid.
6	X/Y Axis Speed	0-255	X/Y axis speeds decrease from fast to slow
7	specific function	0-10	NF
		11-24	Dimming Speed 1
		25-37	Dimming Speed 2
		38-42	Dimming Curve 1
		43-47	Dimming Curve 2
		48-52	Dimming Curve 3
		53-57	Dimming Curve 4
		58-140	NF
		141-200	XY Axis Reset (5S)
		201-255	Reset all motors (5 seconds)

8	LED frequency	0-4	NF
		5-9	4KHz
		10-14	NF
		15-19	20KHz
		20-255	NF
9	LED frequency fine tuning	0-255	NF
10	background color	0	NF
		1-2	Medium-sized earthy amber
		3-4	Sunset Red
		5-6	Flame Red
		7-8	Bright Red
		9-10	Lavender Purple
		11-12	sky blue
		13-14	Medium Powder
		15-16	Moss green
		17-18	lime green
		19-20	Dull Green
		21-22	Medium Purple
		23-24	Light Lavender Purple
		25-26	Light amber
		27-28	Straw Yellow
		29-30	Summer Blue
		31-32	dark green
		33-34	pinkish red
		35-36	Dark Pink
		37-38	peacock blue
		39-40	mauve pale
		41-42	Steel Blue
		43-44	light blue
		45-46	Color Filter 122 (Fern Green)
		47-48	Color Filter 182 (Light Red)
		49-50	Filter Film 121 (Green Filter)
		51-52	Color Filter 128 (Light Powder)
		53-54	Color Filter 131 (Ocean Blue)
		55-56	Color Filter 132 (Medium Blue)
		57-58	Color Filter 134 (Golden Amber)
		59-60	Color Filter 135 (Deep Golden Amber)
		61-62	Color Filter 136 (Light Lavender Purple)
		63-64	Color Filter 137 (Special Lavender Purple)
		65-66	Color Filter 138 (Light Green)

		67-68	Color Filter 798 (Pupa Powder)
		69-70	Color Filter 141 (Light Blue)
		71-72	Color Filter 147 (Apricot)
		73-74	Color Filter 148 (Bright Rose)
		75-76	Color Filter 152 (Light Gold)
		77-78	Color Filter 154 (Light Rose)
		79-80	Color Filter 157 (Pink)
		81-82	Color Filter 143 (Light Navy Blue)
		83-84	Color Filter 162 (Earth Amber)
		85-86	Color Filter 164 (Flame Red)
		87-88	Color Filter 165 (Sunlight Blue)
		89-90	Color Filter 169 (Light Purple Tone)
		91-92	Color Filter 170 (Deep Lavender Purple)
		93-94	Color Filter 172 (Lake Blue)
		95-96	Color Filter 194 (Surprise Pink)
		97-98	Color Filter 180 (Dark Lavender Purple)
		99-100	Color filter 181 (Congo Blue)
		101-102	Color Filter 197 (Alice Blue)
		103-104	Color filter 201 (full CT blue)
		105-106	Color filter 202 (semi-CT blue)
		107-108	Color filter 203 (quartile CT blue)
		109-110	Color filter 204 (full CT orange)
		111-112	Color filter 219 (fluorescent green)
		113-114	Color filter 206 (quarter CT orange)
		115-116	Color Filter 247 (Green Reduction Filter)
		117-118	Color Filter 248 (Half-Reduction Green Filter)
		119-120	Color filter 281 (three-fourths CT blue)
		121-122	Color filter 285 (three-quarters CT orange)
		123-124	Color Filter 352 (Glacial Blue)
		125-126	Color Filter 353 (Light Blue)
		127-128	Color Filter 507 (Madge)
		129-130	Color Filter 778 (Millennium Gold)
		131-132	Color Filter 793 (Vanity)
		133-235	Original DMX Value
		236-245	Rainbow Effect (With Fade In) Slow → Fast
		246-255	Rainbow Effect (No fade-in) Slow → Fast
11	Background Color: Red	0-255	Background Red Dimming 0-100%

12	Background Red Adjustment	0-255	Background Red Fine-Tuning: 0–100%
13	Background Color: Green	0-255	Background Green Dimming 0–100%
14	Background Green Adjustment	0-255	Background Green Fine-Tuning: 0–100%
15	Background Blue	0-255	Background Blue Dimming 0–100%
16	Background Blue Adjustment	0-255	Background Blue Fine-Tuning: 0–100%
17	Background White	0-255	Background White Dimming 0-100%
18	Background White Adjustment	0-255	Background White: Fine adjustment – Dimming range 0–100%
19	background CTO	0	NF
		1-255	From cold to warm
20	Background Stroboscopic Effect	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down from the beginning.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
21	Background Dimming	0-255	Background Dimming 0–100%
22	Background Dimming Fine Adjustment	0-255	Background dimming adjustment: 0–100%

23	Color Mixing Mode	0-9	Global Color
		10-19	Maximum Value Mode
		20-29	Minimum Value Mode
		30-39	Multiplication Mode (Whole Control * Point Control)
		40-49	Addition Mode (Whole Control + Point Control)
		50-59	Subtraction Mode (Whole Control-Point Control)
		60-69	Reverse Subtraction Mode (Point Control-Overall Control)
		70-79	Color Background
		80-127	DMX
		128	Overall Control Priority
		129-254	Cross Gradient (from full-range control to point-controlled)
		255	Point Control Priority
24	Flower Effect 1	0	NF
		1-127	From fast to slow in the forward direction
		128	Stop
		129-255	Reverse from slow to fast
25	Flower Effect 1: Red	0-255	Dimming 0–100%
26	Flower Effect 1: Green	0-255	Dimming 0–100%
27	Flower Effect 1: Blue	0-255	Dimming 0–100%
28	Flower Effect 1: White	0-255	Dimming 0–100%
29	Flower Effect 1: Stroboscopic Light	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down from the beginning.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
30	Flower Effect 1: Dimming	0-255	Dimming 0–100%

31	Flower Effect 2	0	NF
		1-127	From fast to slow in the forward direction
		128	Stop
		129-255	Reverse from slow to fast
32	Flower Effect 2 Red	0-255	Dimming 0–100%
33	Flower Effect 2: Green	0-255	Dimming 0–100%
34	Flower Effect 2 Blue	0-255	Dimming 0–100%
35	Flower Effect 2 White	0-255	Dimming 0–100%
36	Flower Effect 2: Stroboscopic Light	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down from the beginning.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
37	Flower Effect 2 Dimming	0-255	Dimming 0–100%
38	Flower Effect 3	0	NF
		1-127	From fast to slow in the forward direction
		128	Stop
		129-255	Reverse from slow to fast
39	Flower Effect 3 Red	0-255	Dimming 0–100%
40	Flower Effect 3: Green	0-255	Dimming 0–100%
41	Flower Effect 3 Blue	0-255	Dimming 0–100%

42	Flower Effect 3 White	0-255	Dimming 0–100%
43	Flower Effect: Stroboscopic Light (3 Frequencies)	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down from the beginning.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
44	Flower Effect 3 Dimming	0-255	Dimming 0–100%
45	Final Focus Adjustment	0-255	From bottom to top
46	Main Focus Adjustment & Fine Adjustment	0-255	Tune from bottom to top
47	Total Strobismus	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down from the beginning.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
48	Total Dimming	0-255	Dimming 0–100%
49	Main Dimming & Fine Adjustment	0-255	fine-tuning
50	LED1 Red	0-255	Dimming 0–100%

51	LED1 Green	0-255	Dimming 0–100%
52	LED 1 Blue	0-255	Dimming 0–100%
53	LED2 Red	0-255	Dimming 0–100%
54	LED2 Green	0-255	Dimming 0–100%
55	LED2 Blue	0-255	Dimming 0–100%
56	LED3 Red	0-255	Dimming 0–100%
57	LED3 Green	0-255	Dimming 0–100%
58	LED3 Blue	0-255	Dimming 0–100%
59	LED 4 Red	0-255	Dimming 0–100%
60	LED4 Green	0-255	Dimming 0–100%
61	LED 4 Blue	0-255	Dimming 0–100%
62	LED5 Red	0-255	Dimming 0–100%
63	LED5 Green	0-255	Dimming 0–100%
64	LED5 Blue	0-255	Dimming 0–100%
65	LED6 Red	0-255	Dimming 0–100%
66	LED6 Green	0-255	Dimming 0–100%
67	LED6 Blue	0-255	Dimming 0–100%
68	LED7 Red	0-255	Dimming 0–100%
69	LED7 Green	0-255	Dimming 0–100%
70	LED7 Blue	0-255	Dimming 0–100%
71	LED8 Red	0-255	Dimming 0–100%
72	LED8 Green	0-255	Dimming 0–100%

73	LED8 Blue	0-255	Dimming 0–100%
74	LED 9 Red	0-255	Dimming 0–100%
75	LED 9 Green	0-255	Dimming 0–100%
76	LED 9 Blue	0-255	Dimming 0–100%

85CH

76 CH	Channel Name	Channel Value	Channel Function
1	X axle	0-255	0-540°
2	X-axis Fine Adjustment	0-255	X-axis Fine Adjustment
3	Y axle	0-255	0-180°
4	Y-axis Adjustment	0-255	Y-axis Adjustment
5	X-axis Continuous Scale	0-127	NF
		128-189	The X-axis rotates continuously in the forward direction, from fast to slow.
		190-193	Stop rotating
		194-255	The X-axis rotates continuously in reverse direction, from slow to rapid.
6	X/Y Axis Speed	0-255	X/Y axis speeds decrease from fast to slow
7	specific function	0-10	NF
		11-24	Dimming Speed 1
		25-37	Dimming Speed 2
		38-42	Dimming Curve 1
		43-47	Dimming Curve 2
		48-52	Dimming Curve 3
		53-57	Dimming Curve 4
		58-140	NF
		141-200	XY Axis Reset (5S)
		201-255	Reset all motors (5 seconds)
8	LED frequency	0-4	NF
		5-9	4KHz
		10-14	NF
		15-19	20KHz
		20-255	NF
9	LED frequency fine tuning	0-255	NF
10	background color	0	NF

	1-2	Medium-sized earthy amber
	3-4	Sunset Red
	5-6	Flame Red
	7-8	Bright Red
	9-10	Lavender Purple
	11-12	sky blue
	13-14	Medium Powder
	15-16	Moss green
	17-18	lime green
	19-20	Dull Green
	21-22	Medium Purple
	23-24	Light Lavender Purple
	25-26	Light amber
	27-28	Straw Yellow
	29-30	Summer Blue
	31-32	dark green
	33-34	pinkish red
	35-36	Dark Pink
	37-38	peacock blue
	39-40	mauve pale
	41-42	Steel Blue
	43-44	light blue
	45-46	Color Filter 122 (Fern Green)
	47-48	Color Filter 182 (Light Red)
	49-50	Filter Film 121 (Green Filter)
	51-52	Color Filter 128 (Light Powder)
	53-54	Color Filter 131 (Ocean Blue)
	55-56	Color Filter 132 (Medium Blue)
	57-58	Color Filter 134 (Golden Amber)
	59-60	Color Filter 135 (Deep Golden Amber)
	61-62	Color Filter 136 (Light Lavender Purple)
	63-64	Color Filter 137 (Special Lavender Purple)
	65-66	Color Filter 138 (Light Green)
	67-68	Color Filter 798 (Pupa Powder)
	69-70	Color Filter 141 (Light Blue)
	71-72	Color Filter 147 (Apricot)
	73-74	Color Filter 148 (Bright Rose)
	75-76	Color Filter 152 (Light Gold)
	77-78	Color Filter 154 (Light Rose)
	79-80	Color Filter 157 (Pink)
	81-82	Color Filter 143 (Light Navy Blue)
	83-84	Color Filter 162 (Earth Amber)
	85-86	Color Filter 164 (Flame Red)

		87-88	Color Filter 165 (Sunlight Blue)
		89-90	Color Filter 169 (Light Purple Tone)
		91-92	Color Filter 170 (Deep Lavender Purple)
		93-94	Color Filter 172 (Lake Blue)
		95-96	Color Filter 194 (Surprise Pink)
		97-98	Color Filter 180 (Dark Lavender Purple)
		99-100	Color filter 181 (Congo Blue)
		101-102	Color Filter 197 (Alice Blue)
		103-104	Color filter 201 (full CT blue)
		105-106	Color filter 202 (semi-CT blue)
		107-108	Color filter 203 (quartile CT blue)
		109-110	Color filter 204 (full CT orange)
		111-112	Color filter 219 (fluorescent green)
		113-114	Color filter 206 (quarter CT orange)
		115-116	Color Filter 247 (Green Reduction Filter)
		117-118	Color Filter 248 (Half-Reduction Green Filter)
		119-120	Color filter 281 (three-fourths CT blue)
		121-122	Color filter 285 (three-quarters CT orange)
		123-124	Color Filter 352 (Glacial Blue)
		125-126	Color Filter 353 (Light Blue)
		127-128	Color Filter 507 (Madge)
		129-130	Color Filter 778 (Millennium Gold)
		131-132	Color Filter 793 (Vanity)
		133-235	Original DMX Value
		236-245	Rainbow Effect (With Fade In) Slow → Fast
		246-255	Rainbow Effect (No fade-in) Slow → Fast
11	Background Color: Red	0-255	Background Red Dimming 0-100%
12	Background Red Adjustment	0-255	Background Red Fine-Tuning: 0–100%
13	Background Color: Green	0-255	Background Green Dimming 0–100%
14	Background Green Adjustment	0-255	Background Green Fine-Tuning: 0–100%
15	Background Blue	0-255	Background Blue Dimming 0–100%
16	Background Blue Adjustment	0-255	Background Blue Fine-Tuning: 0–100%
17	Background White	0-255	Background White Dimming 0-100%
18	Background White Adjustment	0-255	Background White: Fine adjustment – Dimming range 0–100%
19	background CTO	0	NF
		1-255	From cold to warm
20	Background	0-31	Light Cclusion

	Stroboscopic Effect	32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down from the beginning.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
21	Background Dimming	0-255	Background Dimming 0–100%
22	Background Dimming Fine Adjustment	0-255	Background dimming adjustment: 0–100%
23	Color Mixing Mode	0-9	Global Color
		10-19	Maximum Value Mode
		20-29	Minimum Value Mode
		30-39	Multiplication Mode (Whole Control * Point Control)
		40-49	Addition Mode (Whole Control + Point Control)
		50-59	Subtraction Mode (Whole Control-Point Control)
		60-69	Reverse Subtraction Mode (Point Control-Overall Control)
		70-79	Color Background
		80-127	DMX
		128	Overall Control Priority
		129-254	Cross Gradient (from full-range control to point-controlled)
		255	Point Control Priority
24	Flower Effect 1	0	NF
		1-127	From fast to slow in the forward direction
		128	Stop
		129-255	Reverse from slow to fast
25	Flower Effect 1: Red	0-255	Dimming 0–100%
26	Flower Effect 1: Green	0-255	Dimming 0–100%
27	Flower Effect 1: Blue	0-255	Dimming 0–100%
28	Flower Effect 1: White	0-255	Dimming 0–100%
29	Flower Effect 1: Stroboscopic Light	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast

		144-159	Slow start, fast finish; gradually slow down from the beginning.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
30	Flower Effect 1: Dimming	0-255	Dimming 0–100%
31	Flower Effect 2	0	NF
		1-127	From fast to slow in the forward direction
		128	Stop
		129-255	Reverse from slow to fast
32	Flower Effect 2 Red	0-255	Dimming 0–100%
33	Flower Effect 2: Green	0-255	Dimming 0–100%
34	Flower Effect 2 Blue	0-255	Dimming 0–100%
35	Flower Effect 2 White	0-255	Dimming 0–100%
36	Flower Effect 2: Stroboscopic Light	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down from the beginning.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
37	Flower Effect 2 Dimming	0-255	Dimming 0–100%
38	Flower Effect 3	0	NF
		1-127	From fast to slow in the forward direction
		128	Stop
		129-255	Reverse from slow to fast
39	Flower Effect 3 Red	0-255	Dimming 0–100%
40	Flower Effect 3: Green	0-255	Dimming 0–100%
41	Flower Effect 3 Blue	0-255	Dimming 0–100%
42	Flower Effect 3 White	0-255	Dimming 0–100%
43	Flower Effect: Stroboscopic Light (3 Frequencies)	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light

		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down from the beginning.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
44	Flower Effect 3 Dimming	0-255	Dimming 0–100%
45	Final Focus Adjustment	0-255	From bottom to top
46	Main Focus Adjustment & Fine Adjustment	0-255	Tune from bottom to top
47	Total Strobismus	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down from the beginning.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
48	Total Dimming	0-255	Dimming 0–100%
49	Main Dimming & Fine Adjustment	0-255	fine-tuning
50	LED1 Red	0-255	Dimming 0–100%
51	LED1 Green	0-255	Dimming 0–100%
52	LED 1 Blue	0-255	Dimming 0–100%
53	LED 1 White	0-255	Dimming 0–100%
54	LED2 Red	0-255	Dimming 0–100%
55	LED2 Green	0-255	Dimming 0–100%
56	LED2 Blue	0-255	Dimming 0–100%
57	LED2 White	0-255	Dimming 0–100%
58	LED3 Red	0-255	Dimming 0–100%
59	LED3 Green	0-255	Dimming 0–100%
60	LED3 Blue	0-255	Dimming 0–100%
61	LED3 White	0-255	Dimming 0–100%
62	LED 4 Red	0-255	Dimming 0–100%
63	LED4 Green	0-255	Dimming 0–100%
64	LED 4 Blue	0-255	Dimming 0–100%
65	LED4 White	0-255	Dimming 0–100%
66	LED5 Red	0-255	Dimming 0–100%
67	LED5 Green	0-255	Dimming 0–100%

68	LED5 Blue	0-255	Dimming 0–100%
69	LED5 White	0-255	Dimming 0–100%
70	LED6 Red	0-255	Dimming 0–100%
71	LED6 Green	0-255	Dimming 0–100%
72	LED6 Blue	0-255	Dimming 0–100%
73	LED6 White	0-255	Dimming 0–100%
74	LED7 Red	0-255	Dimming 0–100%
75	LED7 Green	0-255	Dimming 0–100%
76	LED7 Blue	0-255	Dimming 0–100%
77	LED7 White	0-255	Dimming 0–100%
78	LED8 Red	0-255	Dimming 0–100%
79	LED8 Green	0-255	Dimming 0–100%
80	LED8 Blue	0-255	Dimming 0–100%
81	LED8 White	0-255	Dimming 0–100%
82	LED 9 Red	0-255	Dimming 0–100%
83	LED 9 Green	0-255	Dimming 0–100%
84	LED 9 Blue	0-255	Dimming 0–100%
85	LED 9 White	0-255	Dimming 0–100%

89CH

89 CH	Channel Name	Channel Value	Channel Function
1	X axle	0-255	0-540°
2	X-axis Fine Adjustment	0-255	X-axis Fine Adjustment
3	Y axle	0-255	0-180°
4	Y-axis Adjustment	0-255	Y-axis Adjustment
5	X-axis Continuous Scale	0-127	NF
		128-189	The X-axis rotates continuously in the forward direction, from fast to slow.
		190-193	Stop rotating
		194-255	The X-axis rotates continuously in reverse direction, from slow to rapid.
6	X/Y Axis Speed	0-255	X/Y axis speeds decrease from fast to slow
7	specific function	0-10	NF

		11-24	Dimming Speed 1
		25-37	Dimming Speed 2
		38-42	Dimming Curve 1
		43-47	Dimming Curve 2
		48-52	Dimming Curve 3
		53-57	Dimming Curve 4
		58-140	NF
		141-200	XY Axis Reset (5S)
		201-255	Reset all motors (5 seconds)
8	LED frequency	0-4	NF
		5-9	4KHz
		10-14	NF
		15-19	20KHz
		20-255	NF
9	LED frequency fine tuning	0-255	NF
10	background color	0	NF
		1-2	Medium-sized earthy amber
		3-4	Sunset Red
		5-6	Flame Red
		7-8	Bright Red
		9-10	Lavender Purple
		11-12	sky blue
		13-14	Medium Powder
		15-16	Moss green
		17-18	lime green
		19-20	Dull Green
		21-22	Medium Purple
		23-24	Light Lavender Purple
		25-26	Light amber
		27-28	Straw Yellow
		29-30	Summer Blue
		31-32	dark green
		33-34	pinkish red
		35-36	Dark Pink
		37-38	peacock blue
		39-40	mauve pale
		41-42	Steel Blue
		43-44	light blue
		45-46	Color Filter 122 (Fern Green)

	47-48	Color Filter 182 (Light Red)
	49-50	Filter Film 121 (Green Filter)
	51-52	Color Filter 128 (Light Powder)
	53-54	Color Filter 131 (Ocean Blue)
	55-56	Color Filter 132 (Medium Blue)
	57-58	Color Filter 134 (Golden Amber)
	59-60	Color Filter 135 (Deep Golden Amber)
	61-62	Color Filter 136 (Light Lavender Purple)
	63-64	Color Filter 137 (Special Lavender Purple)
	65-66	Color Filter 138 (Light Green)
	67-68	Color Filter 798 (Pupa Powder)
	69-70	Color Filter 141 (Light Blue)
	71-72	Color Filter 147 (Apricot)
	73-74	Color Filter 148 (Bright Rose)
	75-76	Color Filter 152 (Light Gold)
	77-78	Color Filter 154 (Light Rose)
	79-80	Color Filter 157 (Pink)
	81-82	Color Filter 143 (Light Navy Blue)
	83-84	Color Filter 162 (Earth Amber)
	85-86	Color Filter 164 (Flame Red)
	87-88	Color Filter 165 (Sunlight Blue)
	89-90	Color Filter 169 (Light Purple Tone)
	91-92	Color Filter 170 (Deep Lavender Purple)
	93-94	Color Filter 172 (Lake Blue)
	95-96	Color Filter 194 (Surprise Pink)
	97-98	Color Filter 180 (Dark Lavender Purple)
	99-100	Color filter 181 (Congo Blue)
	101-102	Color Filter 197 (Alice Blue)
	103-104	Color filter 201 (full CT blue)
	105-106	Color filter 202 (semi-CT blue)
	107-108	Color filter 203 (quartile CT blue)
	109-110	Color filter 204 (full CT orange)
	111-112	Color filter 219 (fluorescent green)
	113-114	Color filter 206 (quarter CT orange)
	115-116	Color Filter 247 (Green Reduction Filter)
	117-118	Color Filter 248 (Half-Reduction Green Filter)
	119-120	Color filter 281 (three-fourths CT blue)
	121-122	Color filter 285 (three-quarters CT orange)
	123-124	Color Filter 352 (Glacial Blue)
	125-126	Color Filter 353 (Light Blue)
	127-128	Color Filter 507 (Madge)
	129-130	Color Filter 778 (Millennium Gold)

		131-132	Color Filter 793 (Vanity)
		133-235	Original DMX Value
		236-245	Rainbow Effect (With Fade In) Slow → Fast
		246-255	Rainbow Effect (No fade-in) Slow → Fast
11	Background Color: Red	0-255	Background Red Dimming 0-100%
12	Background Red Adjustment	0-255	Background Red Fine-Tuning: 0–100%
13	Background Color: Green	0-255	Background Green Dimming 0–100%
14	Background Green Adjustment	0-255	Background Green Fine-Tuning: 0–100%
15	Background Blue	0-255	Background Blue Dimming 0–100%
16	Background Blue Adjustment	0-255	Background Blue Fine-Tuning: 0–100%
17	Background White	0-255	Background White Dimming 0-100%
18	Background White Adjustment	0-255	Background White: Fine adjustment – Dimming range 0–100%
19	background CTO	0	NF
		1-255	From cold to warm

20	Background Stroboscopic Effect	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down from the beginning.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
21	Background Dimming	0-255	Background Dimming 0–100%
22	Background Dimming Fine Adjustment	0-255	Background dimming adjustment: 0–100%
23	Color Mixing Mode	0-9	Global Color
		10-19	Maximum Value Mode
		20-29	Minimum Value Mode
		30-39	Multiplication Mode (Whole Control * Point Control)
		40-49	Addition Mode (Whole Control + Point Control)
		50-59	Subtraction Mode (Whole Control-Point Control)
		60-69	Reverse Subtraction Mode (Point Control-Overall Control)
		70-79	Color Background
		80-127	DMX
		128	Overall Control Priority
		129-254	Cross Gradient (from full-range control to point-controlled)
		255	Point Control Priority
24	Flower Effect 1	0	NF
		1-127	From fast to slow in the forward direction
		128	Stop
		129-255	Reverse from slow to fast
25	Flower Effect 1: Red	0-255	Dimming 0–100%
26	Flower Effect 1: Green	0-255	Dimming 0–100%

27	Flower Effect 1: Blue	0-255	Dimming 0–100%
28	Flower Effect 1: White	0-255	Dimming 0–100%
29	Flower Effect 1: Stroboscopic Light	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down from the beginning.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
30	Flower Effect 1: Dimming	0-255	Dimming 0–100%
31	Flower Effect 2	0	NF
		1-127	From fast to slow in the forward direction
		128	Stop
		129-255	Reverse from slow to fast
32	Flower Effect 2 Red	0-255	Dimming 0–100%
33	Flower Effect 2: Green	0-255	Dimming 0–100%
34	Flower Effect 2 Blue	0-255	Dimming 0–100%
35	Flower Effect 2 White	0-255	Dimming 0–100%
36	Flower Effect 2: Stroboscopic Light	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light

		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down from the beginning.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
37	Flower Effect 2 Dimming	0-255	Dimming 0–100%
38	Flower Effect 3	0	NF
		1-127	From fast to slow in the forward direction
		128	Stop
		129-255	Reverse from slow to fast
39	Flower Effect 3 Red	0-255	Dimming 0–100%
40	Flower Effect 3: Green	0-255	Dimming 0–100%
41	Flower Effect 3 Blue	0-255	Dimming 0–100%
42	Flower Effect 3 White	0-255	Dimming 0–100%
43	Flower Effect: Stroboscopic Light (3 Frequencies)	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down from the beginning.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
44	Flower Effect 3 Dimming	0-255	Dimming 0–100%

45	Final Focus Adjustment	0-255	From bottom to top
46	Main Focus Adjustment & Fine Adjustment	0-255	Tune from bottom to top
47	effect	0-2	NF
		3-4	Effect 1
		5-6	Effect 2
		7-8	Effect 3
		9-10	Effect 4
		11-12	Effect 5
		13-14	Effect 6
		15-16	Effect 7
		17-18	Effect 8
		19-20	Effect 9
		21-22	Effect 10
		23-24	Effect 11
		25-26	Effect 12
		27-255	DMX
48	Effect Repeat Count	0-255	From few to many
49	Effect Speed	0	NF
		1-127	From fast to slow
		128	Stop
		129-255	From slow to fast
50	Effect Gradient	0-255	Effect Gradient
51	Effect Transition	0-255	Effect Transition
52	Effect Cross Gradient	0-255	Cross Gradient

53	Effect Color: Red	0-255	Dimming 0–100%
54	Effect Color: Green	0-255	Dimming 0–100%
55	Effect Color: Blue	0-255	Dimming 0–100%
56	Effect: White	0-255	Dimming 0–100%
57	Effect Color Macro	0-2	NF
		3-8	Color Macro 1
		9-14	Color Macro 2
		15-20	Color Macro 3
		21-26	Color Macro 4
		27-32	Color Macro 5
		33-38	Color Macro 6
		39-44	Color Macro 7
		45-50	Color Macro 8
		51-56	Color Macro 9
		57-62	Color Macro 10
		63-68	Color Macro 11
		69-74	Color Macro 12
		75-80	Color Macro 13
		81-86	Color Macro 14
		87-92	Color Macro 15
		93-98	Color Macro 16
		99-104	Color Macro 17
		105-110	Color Macro 18
		111-116	Color Macro 19
		117-122	Color Macro 20
		123-128	Color Macro 21
		129-134	Color Macro 22
		135-140	Color Macro 23
		141-255	DMX
58	Effect Stroboscopic Light	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down from the

			beginning.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
59	Effect Dimming	0-255	Dimming 0–100%
60	Total Strobismus	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down from the beginning.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
61	Total Dimming	0-255	Dimming 0–100%
62	Main Dimming & Fine Adjustment	0-255	fine-tuning
63	LED1 Red	0-255	Dimming 0–100%
64	LED1 Green	0-255	Dimming 0–100%
65	LED 1 Blue	0-255	Dimming 0–100%
66	LED2 Red	0-255	Dimming 0–100%
67	LED2 Green	0-255	Dimming 0–100%
68	LED2 Blue	0-255	Dimming 0–100%
69	LED3 Red	0-255	Dimming 0–100%
70	LED3 Green	0-255	Dimming 0–100%
71	LED3 Blue	0-255	Dimming 0–100%

72	LED 4 Red	0-255	Dimming 0–100%
73	LED4 Green	0-255	Dimming 0–100%
74	LED 4 Blue	0-255	Dimming 0–100%
75	LED5 Red	0-255	Dimming 0–100%
76	LED5 Green	0-255	Dimming 0–100%
77	LED5 Blue	0-255	Dimming 0–100%
78	LED6 Red	0-255	Dimming 0–100%
79	LED6 Green	0-255	Dimming 0–100%
80	LED6 Blue	0-255	Dimming 0–100%
81	LED7 Red	0-255	Dimming 0–100%
82	LED7 Green	0-255	Dimming 0–100%
83	LED7 Blue	0-255	Dimming 0–100%
84	LED8 Red	0-255	Dimming 0–100%
85	LED8 Green	0-255	Dimming 0–100%
86	LED8 Blue	0-255	Dimming 0–100%
87	LED 9 Red	0-255	Dimming 0–100%
88	LED 9 Green	0-255	Dimming 0–100%
89	LED 9 Blue	0-255	Dimming 0–100%

98CH

62 C H	Channel Name	Channel Value	Channel Function
1	X axle	0-255	0-540°

2	X-axis Fine Adjustment	0-255	X-axis Fine Adjustment
3	Y axle	0-255	0-180°
4	Y-axis Adjustment	0-255	Y-axis Adjustment
5	X-axis Continuous Scale	0-127	NF
		128-189	The X-axis rotates continuously in the forward direction, from fast to slow.
		190-193	Stop rotating
		194-255	The X-axis rotates continuously in reverse direction, from slow to rapid.
6	X/Y Axis Speed	0-255	X/Y axis speeds decrease from fast to slow
7	specific function	0-10	NF
		11-24	Dimming Speed 1
		25-37	Dimming Speed 2
		38-42	Dimming Curve 1
		43-47	Dimming Curve 2
		48-52	Dimming Curve 3
		53-57	Dimming Curve 4
		58-140	NF
		141-200	XY Axis Reset (5S)
		201-255	Reset all motors (5 seconds)
8	LED frequency	0-4	NF
		5-9	4KHz
		10-14	NF
		15-19	20KHz
		20-255	NF
9	LED frequency fine tuning	0-255	NF
10	background color	0	NF
		1-2	Medium-sized earthy amber
		3-4	Sunset Red
		5-6	Flame Red
		7-8	Bright Red
		9-10	Lavender Purple
		11-12	sky blue
		13-14	Medium Powder
		15-16	Moss green
		17-18	lime green
		19-20	Dull Green
		21-22	Medium Purple
		23-24	Light Lavender Purple
		25-26	Light amber
		27-28	Straw Yellow

	29-30	Summer Blue
	31-32	dark green
	33-34	pinkish red
	35-36	Dark Pink
	37-38	peacock blue
	39-40	mauve pale
	41-42	Steel Blue
	43-44	light blue
	45-46	Color Filter 122 (Fern Green)
	47-48	Color Filter 182 (Light Red)
	49-50	Filter Film 121 (Green Filter)
	51-52	Color Filter 128 (Light Powder)
	53-54	Color Filter 131 (Ocean Blue)
	55-56	Color Filter 132 (Medium Blue)
	57-58	Color Filter 134 (Golden Amber)
	59-60	Color Filter 135 (Deep Golden Amber)
	61-62	Color Filter 136 (Light Lavender Purple)
	63-64	Color Filter 137 (Special Lavender Purple)
	65-66	Color Filter 138 (Light Green)
	67-68	Color Filter 798 (Pupa Powder)
	69-70	Color Filter 141 (Light Blue)
	71-72	Color Filter 147 (Apricot)
	73-74	Color Filter 148 (Bright Rose)
	75-76	Color Filter 152 (Light Gold)
	77-78	Color Filter 154 (Light Rose)
	79-80	Color Filter 157 (Pink)
	81-82	Color Filter 143 (Light Navy Blue)
	83-84	Color Filter 162 (Earth Amber)
	85-86	Color Filter 164 (Flame Red)
	87-88	Color Filter 165 (Sunlight Blue)
	89-90	Color Filter 169 (Light Purple Tone)
	91-92	Color Filter 170 (Deep Lavender Purple)
	93-94	Color Filter 172 (Lake Blue)
	95-96	Color Filter 194 (Surprise Pink)
	97-98	Color Filter 180 (Dark Lavender Purple)
	99-100	Color filter 181 (Congo Blue)
	101-102	Color Filter 197 (Alice Blue)
	103-104	Color filter 201 (full CT blue)
	105-106	Color filter 202 (semi-CT blue)
	107-108	Color filter 203 (quartile CT blue)
	109-110	Color filter 204 (full CT orange)
	111-112	Color filter 219 (fluorescent green)
	113-114	Color filter 206 (quarter CT orange)

		115-116	Color Filter 247 (Green Reduction Filter)
		117-118	Color Filter 248 (Half-Reduction Green Filter)
		119-120	Color filter 281 (three-fourths CT blue)
		121-122	Color filter 285 (three-quarters CT orange)
		123-124	Color Filter 352 (Glacial Blue)
		125-126	Color Filter 353 (Light Blue)
		127-128	Color Filter 507 (Madge)
		129-130	Color Filter 778 (Millennium Gold)
		131-132	Color Filter 793 (Vanity)
		133-235	Original DMX Value
		236-245	Rainbow Effect (With Fade In) Slow → Fast
		246-255	Rainbow Effect (No fade-in) Slow → Fast
11	Background Color: Red	0-255	Background Red Dimming 0-100%
12	Background Red Adjustment	0-255	Background Red Fine-Tuning: 0–100%
13	Background Color: Green	0-255	Background Green Dimming 0–100%
14	Background Green Adjustment	0-255	Background Green Fine-Tuning: 0–100%
15	Background Blue	0-255	Background Blue Dimming 0–100%
16	Background Blue Adjustment	0-255	Background Blue Fine-Tuning: 0–100%
17	Background White	0-255	Background White Dimming 0-100%
18	Background White Adjustment	0-255	Background White: Fine adjustment – Dimming range 0–100%
19	background CTO	0	NF
		1-255	From cold to warm
20	Background Stroboscopic Effect	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down from the beginning.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
21	Background Dimming	0-255	Background Dimming 0–100%
22	Background Dimming Fine Adjustment	0-255	Background dimming adjustment: 0–100%

23	Color Mixing Mode	0-9	Global Color
		10-19	Maximum Value Mode
		20-29	Minimum Value Mode
		30-39	Multiplication Mode (Whole Control * Point Control)
		40-49	Addition Mode (Whole Control + Point Control)
		50-59	Subtraction Mode (Whole Control-Point Control)
		60-69	Reverse Subtraction Mode (Point Control-Overall Control)
		70-79	Color Background
		80-127	DMX
		128	Overall Control Priority
		129-254	Cross Gradient (from full-range control to point-controlled)
		255	Point Control Priority
24	Flower Effect 1	0	NF
		1-127	From fast to slow in the forward direction
		128	Stop
		129-255	Reverse from slow to fast
25	Flower Effect 1: Red	0-255	Dimming 0–100%
26	Flower Effect 1: Green	0-255	Dimming 0–100%
27	Flower Effect 1: Blue	0-255	Dimming 0–100%
28	Flower Effect 1: White	0-255	Dimming 0–100%
29	Flower Effect 1: Stroboscopic Light	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down from the beginning.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
30	Flower Effect 1: Dimming	0-255	Dimming 0–100%
31	Flower Effect 2	0	NF
		1-127	From fast to slow in the forward direction
		128	Stop
		129-255	Reverse from slow to fast
32	Flower Effect 2 Red	0-255	Dimming 0–100%
33	Flower Effect 2: Green	0-255	Dimming 0–100%

34	Flower Effect 2 Blue	0-255	Dimming 0–100%
35	Flower Effect 2 White	0-255	Dimming 0–100%
36	Flower Effect 2: Stroboscopic Light	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down from the beginning.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
37	Flower Effect 2 Dimming	0-255	Dimming 0–100%
38	Flower Effect 3	0	NF
		1-127	From fast to slow in the forward direction
		128	Stop
		129-255	Reverse from slow to fast
39	Flower Effect 3 Red	0-255	Dimming 0–100%
40	Flower Effect 3: Green	0-255	Dimming 0–100%
41	Flower Effect 3 Blue	0-255	Dimming 0–100%
42	Flower Effect 3 White	0-255	Dimming 0–100%
43	Flower Effect: Stroboscopic Light (3 Frequencies)	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down from the beginning.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
		224-255	opening the light
44	Flower Effect 3 Dimming	0-255	Dimming 0–100%
45	Final Focus Adjustment	0-255	From bottom to top
46	Main Focus Adjustment & Fine Adjustment	0-255	Tune from bottom to top
47	effect	0-2	NF
		3-4	Effect 1
		5-6	Effect 2

		7-8	Effect 3
		9-10	Effect 4
		11-12	Effect 5
		13-14	Effect 6
		15-16	Effect 7
		17-18	Effect 8
		19-20	Effect 9
		21-22	Effect 10
		23-24	Effect 11
		25-26	Effect 12
		27-255	DMX
48	Effect Repeat Count	0-255	From few to many
49	Effect Speed	0	NF
		1-127	From fast to slow
		128	Stop
		129-255	From slow to fast
50	Effect Gradient	0-255	Effect Gradient
51	Effect Transition	0-255	Effect Transition
52	Effect Cross Gradient	0-255	Cross Gradient
53	Effect Color: Red	0-255	Dimming 0–100%
54	Effect Color: Green	0-255	Dimming 0–100%
55	Effect Color: Blue	0-255	Dimming 0–100%
56	Effect: White	0-255	Dimming 0–100%
57	Effect Color Macro	0-2	NF
		3-8	Color Macro 1
		9-14	Color Macro 2
		15-20	Color Macro 3
		21-26	Color Macro 4
		27-32	Color Macro 5
		33-38	Color Macro 6
		39-44	Color Macro 7
		45-50	Color Macro 8
		51-56	Color Macro 9
		57-62	Color Macro 10
		63-68	Color Macro 11
		69-74	Color Macro 12
		75-80	Color Macro 13
		81-86	Color Macro 14
		87-92	Color Macro 15
		93-98	Color Macro 16
		99-104	Color Macro 17
		105-110	Color Macro 18

		111-116	Color Macro 19
		117-122	Color Macro 20
		123-128	Color Macro 21
		129-134	Color Macro 22
		135-140	Color Macro 23
		141-255	DMX
58	Effect Stroboscopic Light	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down from the beginning.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
59	Effect Dimming	0-255	Dimming 0–100%
60	Total Strobismus	0-31	Light Cclusion
		32-63	opening the light
		64-95	Standard stroboscopic effect, from slow to fast
		96-127	opening the light
		128-143	Slow start, fast stop; from slow to fast
		144-159	Slow start, fast finish; gradually slow down from the beginning.
		160-191	opening the light
		192-223	Random stroboscopic effect, from slow to fast
61	Total Dimming	0-255	Dimming 0–100%
62	Main Dimming & Fine Adjustment	0-255	fine-tuning
63	LED1 Red	0-255	Dimming 0–100%
64	LED1 Green	0-255	Dimming 0–100%
65	LED 1 Blue	0-255	Dimming 0–100%
66	LED 1 White	0-255	Dimming 0–100%
67	LED2 Red	0-255	Dimming 0–100%
68	LED2 Green	0-255	Dimming 0–100%
69	LED2 Blue	0-255	Dimming 0–100%
70	LED2 White	0-255	Dimming 0–100%
71	LED3 Red	0-255	Dimming 0–100%
72	LED3 Green	0-255	Dimming 0–100%
73	LED3 Blue	0-255	Dimming 0–100%
74	LED3 White	0-255	Dimming 0–100%
75	LED 4 Red	0-255	Dimming 0–100%
76	LED4 Green	0-255	Dimming 0–100%
77	LED 4 Blue	0-255	Dimming 0–100%

78	LED4 White	0-255	Dimming 0–100%
79	LED5 Red	0-255	Dimming 0–100%
80	LED5 Green	0-255	Dimming 0–100%
81	LED5 Blue	0-255	Dimming 0–100%
82	LED5 White	0-255	Dimming 0–100%
83	LED6 Red	0-255	Dimming 0–100%
84	LED6 Green	0-255	Dimming 0–100%
85	LED6 Blue	0-255	Dimming 0–100%
86	LED6 White	0-255	Dimming 0–100%
87	LED7 Red	0-255	Dimming 0–100%
88	LED7 Green	0-255	Dimming 0–100%
89	LED7 Blue	0-255	Dimming 0–100%
90	LED7 White	0-255	Dimming 0–100%
91	LED8 Red	0-255	Dimming 0–100%
92	LED8 Green	0-255	Dimming 0–100%
93	LED8 Blue	0-255	Dimming 0–100%
94	LED8 White	0-255	Dimming 0–100%
95	LED 9 Red	0-255	Dimming 0–100%
96	LED 9 Green	0-255	Dimming 0–100%
97	LED 9 Blue	0-255	Dimming 0–100%
98	LED 9 White	0-255	Dimming 0–100%