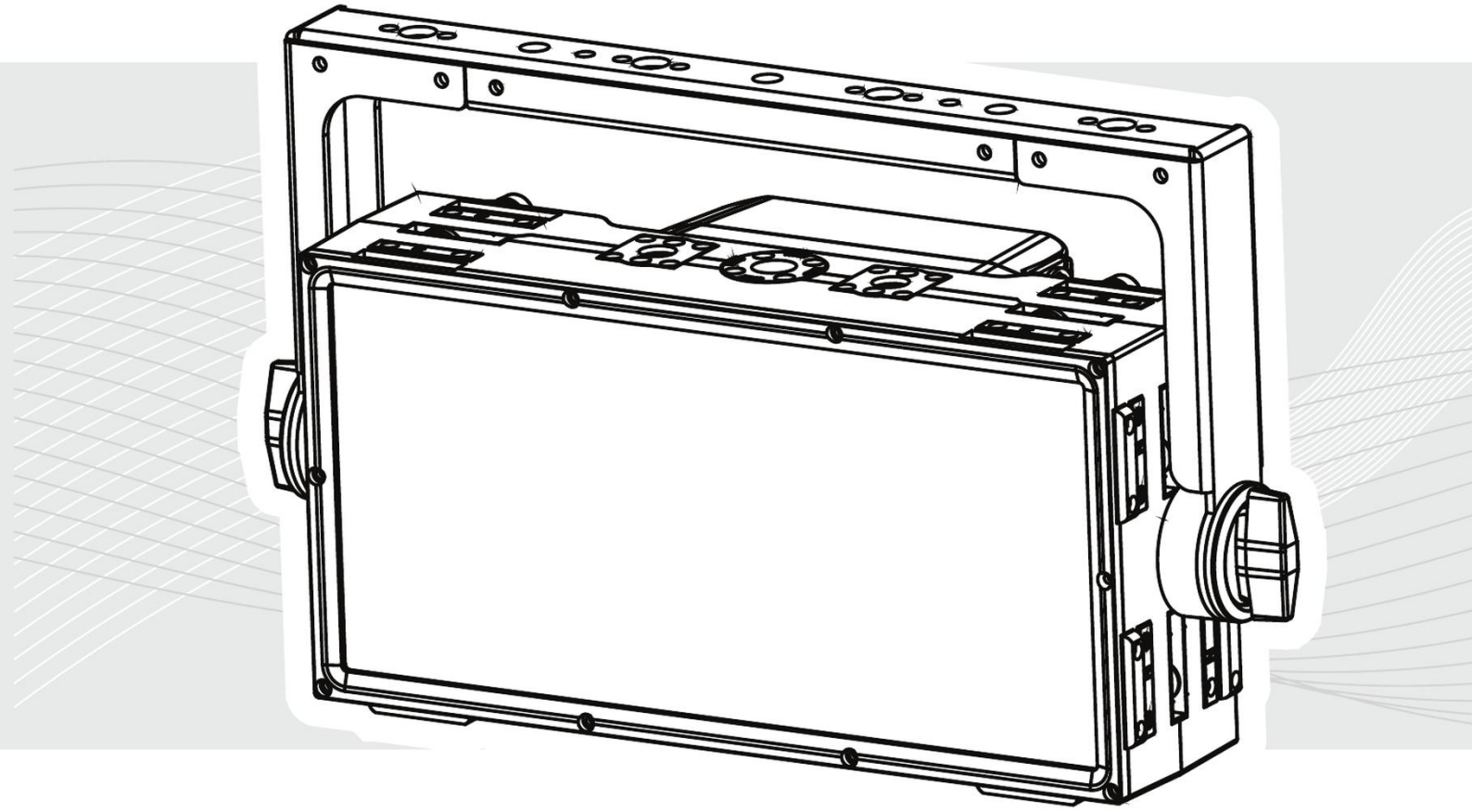
SSP PROFESSIONAL LIGHTING

User's Manual

MATRIX ST2 IP



LED STROBE

English

Please read the user manual carefully
before using the appliance.

MATRIX ST2 IP USER MANUAL – INDEX

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MATRIX ST2 IP USER MANUAL

1 Precautions and installation

1 Precautions and installation

To ensure proper and safe use of this product, read the instructions carefully before installation and use. The fixture is a five-tube oscillating strobe light. It complies with CE standards and with the international DMX512 signal protocol. It supports both standalone and networked control and is intended for small to medium-sized venues such as concerts, theatres, studios, nightclubs and bars.

1.1 Remove packaging

After unpacking, check whether the product is damaged in transport and whether the contents are complete. The package contains: one five-tube oscillating strobe light unit, one signal line, one manual, one power cord and one set of hanging accessories. The product has no spare parts. Maintenance and repair can only be carried out by professionals.

1.2 Safety instructions

Warning: handle this product with extreme caution. It is a high-voltage device. Contact with electrical wires may cause electric shock.

- Damage caused by failure to follow this manual is not covered by the warranty. The supplier is not responsible for product issues arising from this.
- If the product has been exposed to extreme temperature changes, for example after transport, do not power it on immediately. Wait until it has returned to normal temperature.
- The product operates on a 100–240 V voltage range and is designed for indoor use. Make sure the mains voltage does not exceed the rated capacity. The power plug must be connected to a Class I socket with proper protection. The green or yellow-green earth conductor must be properly grounded.
- Check the product and its power cord regularly. The power cord must not be folded, damaged or scratched, and must not be connected to other wires. Always unplug the power cord when the product is not in use or before cleaning.
- Familiarise yourself with the operation and functions before use. Do not let children or unqualified personnel touch the product. Do not shake the product or use excessive force when installing or operating it.
- Do not modify the product without authorisation. This may cause damage that is not covered by the warranty and may lead to short circuits, burns or electric shocks.

1.3 Product notes

- If the product has been exposed to a large temperature difference, wait until it reaches normal room temperature before starting it, because thermal expansion and contraction may damage it.
- Avoid strong impacts during installation. Do not lift the entire product by the lamp head, as this may damage the mechanical parts.
- Choose an installation location that is not exposed to overheating, excessive humidity or dust. Do not place any wires on the floor.

- Make sure the installation site is secure. Secure the product with safety ropes and check that all screws are properly tightened.
- Make sure the lens is in good condition. Replace the lens if it is damaged or scratched.
- The product should be operated by technicians familiar with it. Non-technical personnel must not operate the equipment.
- Keep the packaging for secondary transport. Do not change the product without guidance from the manufacturer or distributor.
- Failures caused by improper operation are not covered by the warranty. Accidents resulting from short circuits, injury, electric shock, UV-induced damage or bulb explosions caused by such misuse are also excluded.

1.4 Lighting installation

Note: for safety, hang this product away from walkways, seating areas, or areas within reach.

The luminaire can be installed horizontally, diagonally or upside down. Pay special attention to the installation method for these orientations. Before positioning the luminaire, make sure the installation site is stable. When installing with inverted suspension, make sure the luminaire will not fall from the support frame. Use safety ropes to loop through both the support frame and the handle of the luminaire. Pedestrian access below the luminaire is prohibited during installation and adjustment. Inspect the safety ropes regularly for wear and check that hook screws are not loose. The manufacturer accepts no liability for falls caused by unstable suspension installations.

- Before hanging the product, make sure the mounting point can support 10 times the weight of the final product.
- The product must be installed with a double protection device, such as a safety rope.
- Do not stand under the installation point when hanging, removing or repairing the product.
- Install the product at least 0.5 m away from flammable materials.
- The top suspension requires experienced installers who can calculate load-bearing capacity, select appropriate materials and carry out regular safety inspections. Do not attempt the installation yourself if you lack these skills.
- Complete all hanging and installation steps before powering on the product.

The bottom of the product has a dedicated quick-lock hanger and a safety rope attachment point. When installing the product on a truss, use the appropriate quick-release lock at the designated hanging point and fasten it with an M10 screw. For added safety, attach the safety rope to the bottom attachment point and secure it to the truss. Always use the safety rope and never install it on the handle.

1.5 DMX-512 linkage

All fixtures operate in parallel under DMX512 control. For multi-fixture setups, use a shielded two-core cable. Connect each fixture through its DMX INPUT and OUTPUT ports, and make sure the three XLR pins on the signal cables are properly matched. To prevent interference from electrical noise, use a DMX terminator: connect a 120 Ω, 1 W resistor between pins 2 and 3 of the XLR connector and plug it into the OUTPUT port of the last fixture.

Connector pin	Signal (DMX-512 connection diagram)
Pin 1	Common
Pin 2	DMX −
Pin 3	DMX +
Pins 4 and 5	Not used

1.6 Start address calculation

The start address of the current fixture equals the start address of the previous fixture plus the number of channels of that fixture. The first fixture starts at address A001. The basic channel count of the controller must be greater than or equal to the total number of channels used. Each fixture must have its own start address. For example, if the first fixture starts at A001 with 16 channels, the second starts at A017 and the third at A033. This may vary with the console used.

Connect the male connector of the XLR signal cable to the signal output of the controller, and the female connector to the signal input on the rear panel of the fixture. Multiple units can be connected in series if the cable is three-core, shielded and fitted with XLR input and output connectors.

2 Panel operations

2 Panel operations

2.0 Light panel

The panel has four keys: UP (up button), MENU (return key), ENTER (confirm key) and DOWN (down key). The display shows the temperature, the address code (range 001–512) and the channel count. The temperature display shows the light panel temperature in °C. If the display shows dashes, the temperature detection is abnormal, probably due to a broken temperature control connection wire. If the reading differs significantly from the ambient temperature, there may be a short circuit in the temperature control wire, and the system must be repaired by a professional before normal operation. Do not tap the display with sharp or pointed objects.

2.1 Menu home

The main menu contains 16 submenus. Use the UP and DOWN keys to select a submenu, then press ENTER to access it.

Main menu items
Protocol / DMX Address / DMX Channel / Static / Pixel Invert / LED Array Swap / Master/Slave / Dimmer Mode / White Balance / Fan Mode / Display Invert / Backlight / Key Lock / Ethernet Setting / Information / Factory Reset

2.2 System settings

To modify settings, enter the system configuration, press ENTER to select the desired parameter, then use UP and DOWN to adjust the value. Confirm with ENTER to update the operating mode, parameters and display settings. The options are listed below.

Option	Setting	Explanation
Protocol	DMX pattern	Console mode: receives DMX signals.
Protocol	Artnet	Art-Net mode: receives Art-Net signals.
Protocol	sACN	sACN mode: receives sACN signals.
DMX address	001–512	DMX start address.
Channel pattern	15 / 39 / 71 / 112 / 178 / 209 / 275 CH	Selects one of the seven channel modes in section 3.
Static mode	Manual mode (000–255); automatic testing	Static control and automatic test.
Pixel reversal	RGB 1, RGB 2, central tube, single tube 1, single pipe 2, single pipe 3	Set pixel direction: Yes / No for each item.
LED array switch	RGB 1–2 swap; single tube 1–4 exchange	Yes / No for each item.
Master-slave mode	Host / From	Yes / No.
Dimming mode	Close; Dimming Mode 1, 2, 3	Close: quick dimming. Dimming Modes 1 to 3 have Dimming speed 1 to 3.
White balance	Red / Green / Blue	Set the white balance by colour channel.
Fan mode	Close / Maximum wind / Voluntarily / Loudspeaker mute	Close: fan off. Maximum wind: fan always on. Voluntarily: fan speed control. Loudspeaker mute: fan silent speed adjustment.

Option	Setting	Explanation
Display reverse	Close / Open	Close: screen facing forward. Open: screen reversed.
Screen lock	Close / Open	After the screen is turned off the screen locks, and the unlock password appears on the lock screen. Close: do not lock. Open: lock.
Backlight brightness	10 S / 20 S / 20 Min / always on	Backlight time setting.
Network settings	Artnet / sACN	Set network parameters. IP address 002.000.000.001; subnet mask 255.000.000.000.

2.3 Manual mode

The manual mode interface lets you set each function directly. Values are in the range 000–255.

No.	Function	No.	Function	No.	Function
1	Dimmer All	7	Red	13	W Eff
2	Centric W	8	Green	14	W Eff Speed
3	Strobe C-W	9	Blue	15	RGB Eff
4	White	10	Strobe RGB	16	RGB Eff Speed
5	Strobe W	11	C-W Eff		
6	Dimmer RGB	12	C-W Eff Spd		

2.4 System information and factory reset

Item	Setting / value
Device usage time	0 H (clear with Yes / No)
LED utility time	0 H
Display board version number	V4.2
A / B / C version number	V0.0
RDM UID	009B XXXXXXXX
Clear device usage time	Yes / No
Clear display time	Yes / No
Factory data reset	Cancel / Affirm. Affirm restores the light fixture to factory settings.

To access the information interface, press ENTER. Use UP and DOWN to select the item, then press ENTER again to view its content. The information screen shows fixture hours, LED hours, display version, A, B and C versions, RDM UID, and the Reset Fix Hours and Reset LED Hours options.

3 Channel description and technical parameters

3 Channel description and technical parameters

The fixture has seven DMX channel modes: 15, 39, 71, 112, 178, 209 and 275 channels. The channel mode is selected with the Channel pattern item in System Settings. The tables below are taken from the DMX chart as printed. Where a single chart entry gave the channel number as 15 for channel 45 of mode 3, the number has been corrected to 45 because the channel list runs in sequence.

3.1 15 Channel Mode (Mode 1)

CH	Function	DMX value	Description
1	Total dimming	0–255	Total dimming
2	Middle white dimming	0–255	Middle white dimming
		0–19	Turn off light
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
3	White flicker in the middle	145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (from fast to slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
4	White space duration	0–255	White space duration
5	Single tube (1-4) dimming	0–255	Single tube (1-4) dimming
6	Single tube (1-4) - Flash	0–19	Turn off light
		20–24	opening the light

CH	Function	DMX value	Description
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
		145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (from fast to slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
7	Single tube (1-4) - Duration	0–255	Single tube (1-4) - Duration
8	RGB (1+2) -Dim	0–255	RGB (1+2) -Dim
9	RGB (1+2) -Blink	0–19	Turn off light
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
		145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light

CH	Function	DMX value	Description
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (Fast to Slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
10	RGB(1+2) - Duration	0–255	RGB(1+2) - Duration
11	RGB(1+2) -Red	0–255	RGB(1+2) -Red
12	RGB(1+2) -Green	0–255	RGB(1+2) -Green
13	RGB(1+2) -Blue	0–255	RGB(1+2) -Blue
		—	Based on CTC images
		0–4	7000K
		5–226	2000K-6500 K linear, 20-21 K steps (see CTC table for details)
14	RGB(1+2) - CTC	182–182	5600K
		226–226	6500K
		227–255	6621K-10.000 K-line with a step size of 120-121K (see CTC table for details)
15	Device Settings	0–19	NF
		20–24	Show backlight (hold for 3 seconds)
		25–29	Show backlight off (hold for 3 seconds)
		30–34	NF
		35–39	DMX no signal black field (hold for 3 seconds)
		40–44	DMX no signal hold (hold for 3 seconds)
		45–49	DMX no-signal emergency lighting (3 seconds)
		50–54	NF
		55–59	NF
		60–64	NF
		65–69	NF
		70–74	NF
		75–79	NF
		80–84	NF
		85–89	NF
		90–94	NF
		95–99	NF

CH	Function	DMX value	Description
		100–104	NF
		105–109	Fan Auto (hold for 3 seconds)
		110–114	Fan mute (hold for 3 seconds)
		115–119	Fan off (hold for 3 seconds)
		120–124	Fan maximum power (hold for 3 seconds)
		125–129	NF
		130–134	Reverse RGB panel 1 off (hold for 1.5 seconds)
		135–139	Reverse RGB panel 1 on (hold for 1.5 seconds)
		140–144	Reverse RGB panel 2 off (hold for 1.5 seconds)
		145–149	Reverse RGB panel 2 open (hold for 1.5 seconds)
		150–154	Reverse middle white (hold 1.5 seconds)
		155–159	Reverse middle white (hold 1.5 seconds)
		160–164	Reverse single tube 1 off (hold for 1.5 seconds)
		165–169	Reverse single tube 1 on (hold for 1.5s)
		170–174	Reverse single tube 2 off (hold for 1.5 seconds)
		175–179	Reverse single tube 2 on (hold for 1.5 seconds)
		180–184	Reverse single tube 3 off (hold for 1.5 seconds)
		185–189	Reverse single tube 3 on (hold for 1.5 seconds)
		190–194	Reverse single tube 4 off (hold for 1.5 seconds)
		195–199	Reverse single tube 4 open (hold for 1.5 seconds)
		200–204	Disable RGB panel (hold for 1.5 seconds)
		205–209	Switch to RGB panel (hold for 1.5 seconds)
		210–214	Close the exchange single tube (hold for 1.5 seconds)
		215–219	Open the exchange single tube (hold for 1.5 seconds)
		220–224	NF
		225–229	NF
		230–234	NF
		235–239	NF
		240–244	Y-axis reset
		245–249	NF
		250–255	NF

3.2 39 Channel Mode (Mode 2)

CH	Function	DMX value	Description
1	Total dimming	0–255	Total dimming
2	Middle white dimming	0–255	Middle white dimming
		0–19	Turn off light

CH	Function	DMX value	Description
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
3	White flicker in the middle	145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (Fast to Slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
4	White space duration	0–255	White space duration
5	Center effect dimming	0–255	Center effect dimming
		—	Based on the pipe diagram
6	Center effect selection	0–255	Center effect selection
7	Select X-bleach for the central tube	0–255	obligate
		0–5	cease
		6–124	From left to right / fast to slow
8	Center effect speed	125–130	cease
		131–249	From right to left / slow to fast
		250–255	cease
		0–5	NF
9	Center effect faded	6–255	Fade duration from short to long
10	Central tube space	0–255	obligate
11	Single tube (1-4) dimming	0–255	Single tube (1-4) dimming
		0–19	Turn off light

CH	Function	DMX value	Description
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
12	Single tube (1-4) - Flash	145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (Fast to Slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
13	Single tube (1-4) - Continuous	—	Only affects Flash Mode 1 (025-064)
		0–255	Single tube (1-4) - Continuous
14	Single tube (1-4) dimming effect	0–255	Single tube (1-4) dimming effect
15	Single tube (1-4) - Static effect	—	Based on the pipe diagram
		0–255	Single tube (1-4) - Static effect
16	Select X fade for single tube (1-4) mode	0–255	obligate
17	Single Tube Group (1-4) - Dynamic Effect	—	Based on the pipe group mode diagram
		0–255	Single Tube Group (1-4) -Dynamic Effect
18	Single tube group (1-4) mode selection: Light X	0–255	obligate
19	Single tube (1-4) mode speed	0–5	cease
		6–124	From left to right / fast to slow
		125–130	cease
		131–249	From right to left / slow to fast
		250–255	cease
		—	—

CH	Function	DMX value	Description
		70–84	NF
20	Single tube (1-4) effect faded	85–89	Fade duration from short to long
		—	—
21	Single root canal (1-4 roots) - Pattern space	0–255	obligate
22	RGB panel (1+2) - dim	0–255	RGB panel (1+2) - dim
		0–19	Turn off light
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
23	RGB panel (1+2) - Blink	145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (from fast to slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
24	RGB panel (1+2) - Duration	0–255	RGB panel (1+2) - Duration
25	RGB panel (1+2) - Red	0–255	RGB panel (1+2) - Red
26	RGB panel (1+2) - Green	0–255	RGB panel (1+2) - Green
27	RGB panel (1+2) - Blue	0–255	RGB panel (1+2) - Blue
		—	Based on CTC images
		0–4	7000K
		5–226	The K-line shows a linear distribution with a step size of 20-21K (see
28	RGB Panel (1+2) - CTC	182–182	CTC chart for details). 5600K

CH	Function	DMX value	Description
		226–226	6500K
		227–255	6621K-10.000 K-line at the 120-121K level (see detailed CTC chart)
29	RGB Panel (1+2) - Effect Dim	0–255	RGB Panel (1+2) - Effect Dim
30	RGB Panel (1+2) - Effect Selection	0–255	RGB Panel (1+2) - Effect Selection
31	RGB Panel (1+2) - Pattern Selection X-Bleach	0–255	obligate
		0–5	cease
		6–124	From left to right / fast to slow
32	RGB Panel (1+2) - Effect Speed	125–130	cease
		131–249	From right to left / slow to fast
		250–255	cease
		0–5	NF
33	RGB Panel (1+2) - Fade Effect	6–255	Fade duration from short to long
34	RGB Panel (1+2) - Pattern Space	0–41	obligate
		—	—
35	RGB Panel (1+2) - Red Effect	0–255	RGB Panel (1+2) - Red Effect
36	RGB Panel (1+2) - Green Effect	0–255	RGB Panel (1+2) - Green Effect
37	RGB Panel (1+2) - Blue Effect	0–255	RGB Panel (1+2) - Blue Effect
		—	Based on CTC images
		0–4	7000K
		5–226	The K-line is linearly distributed with a step size of 20-21K (see CTC
38	RGB Panel (1+2) - Mode CTC	182–182	chart for details). 5600K
		226–226	6500K
		227–255	6621K-10.000 K-line at the 120-121K level (see detailed CTC chart)
39	Device Settings	0–5	NF
		6–10	Show backlight (hold for 3 seconds)
		11–15	Show backlight off (hold for 3 seconds)
		16–18	NF
		19–23	DMX no signal black field (hold for 3 seconds)
		24–28	DMX no signal hold (hold for 3 seconds)
		29–33	DMX no-signal emergency lighting (3 seconds)
		34–36	NF
		37–41	Linear dimming curve (hold for 1.5 seconds)
		42–46	Exponential dimming curve (hold for 1.5 seconds)
		47–51	Logarithmic dimming curve (hold for 1.5s)

CH	Function	DMX value	Description
		52–56	S dimming curve (hold for 1.5 seconds)
		57–61	NF
		62–66	Quick dim (hold for 1.5 seconds)
		67–71	Medium dimming (hold for 1.5 seconds)
		72–76	Slow dim (hold for 1.5 seconds)
		77–80	NF
		81–85	NF
		86–90	NF
		91–93	NF
		94–98	NF
		99–103	NF
		104–108	NF
		109–113	NF
		114–118	NF
		119–123	NF
		124–126	NF
		127–131	Fan Auto (hold for 3 seconds)
		132–136	Fan mute (hold for 3 seconds)
		137–141	Fan off (hold for 3 seconds)
		142–146	Maximum fan power (hold for 3 seconds)
		147–149	NF
		150–153	Reverse RGB panel 1 off (hold for 1.5 seconds)
		154–157	Reverse RGB panel 1 on (hold for 1.5 seconds)
		158–161	Reverse RGB panel 2 off (hold for 1.5 seconds)
		162–165	Reverse RGB panel 2 open (hold for 1.5 seconds)
		166–169	Reverse middle white (hold 1.5 seconds)
		170–173	Reverse middle white (hold 1.5 seconds)
		174–177	Reverse single tube 1 off (hold for 1.5 seconds)
		178–181	Reverse single tube 1 on (hold for 1.5s)
		182–185	Reverse single tube 2 off (hold for 1.5 seconds)
		186–189	Reverse single tube 2 on (hold for 1.5 seconds)
		190–193	Reverse single tube 3 off (hold for 1.5 seconds)
		194–197	Reverse single tube 3 on (hold for 1.5 seconds)
		198–201	Reverse single tube 4 off (hold for 1.5 seconds)
		202–205	Reverse single tube 4 open (hold for 1.5 seconds)
		206–209	Disable RGB panel (hold for 1.5 seconds)
		210–213	Switch to RGB panel (hold for 1.5 seconds)

CH	Function	DMX value	Description
		214–217	Close the exchange single tube (hold for 1.5 seconds)
		218–221	Open the exchange single tube (hold for 1.5 seconds)
		222–224	NF
		225–234	Y-axis reset
		235–255	NF

3.3 71 Channel Mode (Mode 3)

CH	Function	DMX value	Description
1	Total dimming	0–255	Total dimming
2	Middle white dimming	0–255	Middle white dimming
		0–19	Turn off light
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
3	White flicker in the middle	145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (from fast to slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
4	White space duration	0–255	White space duration
5	Center effect dimming	0–255	Center effect dimming
		—	Based on the pipe diagram
6	Center effect selection	0–255	Center effect selection

CH	Function	DMX value	Description
7	Select X-bleach for the central tube	0–255	obligate
		0–5	cease
		6–124	From left to right / fast to slow
8	Center effect speed	125–130	cease
		131–249	From right to left / slow to fast
		250–255	cease
		0–5	NF
9	Center effect faded	6–255	Fade duration from short to long
10	Central tube space	0–255	obligate
11	Single tube 1 dim	0–255	Single tube 1 dim
		0–19	Turn off light
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
12	Single Tube 1-Flash	145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (from fast to slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
13	Single tube 1-Duration	0–255	Single tube 1-Duration
14	Single tube 1-Effect dimming	0–255	Single tube 1-Effect dimming
15	Single Tube 1-Effect Selection	—	Based on the pipe diagram
		0–255	Single Tube 1-Effect Selection

CH	Function	DMX value	Description
16	Select X-bleach for single tube 1	0–255	obligate
		0–5	cease
		6–124	From left to right / fast to slow
17	Single tube 1 effect speed	125–130	cease
		131–249	From right to left / slow to fast
		250–255	cease
		0–5	NF
18	Single tube 1 effect faded	6–255	Fade duration from short to long
19	Single Tube 1 Mode Space	0–255	obligate
20	Single tube 2 dim	0–255	Single tube 2 dim
		0–19	Turn off light
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
21	Single Tube 2-Flicker	145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (from fast to slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
22	Single tube 2-Duration	0–255	Single tube 2-Duration
23	Single tube 2-Effect dimming	0–255	Single tube 2-Effect dimming
24	Single Tube 2-Effect Selection	—	Based on the pipe diagram
		0–255	Single Tube 2-Effect Selection

CH	Function	DMX value	Description
25	Single tube 2 select X-bleach	0–255	obligate
		0–5	cease
		6–124	From left to right / fast to slow
26	Single Tube 2 Effect Speed	125–130	cease
		131–249	From right to left / slow to fast
		250–255	cease
		0–5	NF
27	Single tube 2 effect fade	6–255	Fade duration from short to long
28	Single Tube 2 Mode Space	0–255	obligate
29	Single tube 3 dim	0–255	Single tube 3 dim
		0–19	Turn off light
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
30	Single Tube 3-Flicker	145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (Fast to Slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
31	Single tube 3-Duration	0–255	Single tube 3-Duration
32	Single tube 3-Effect dimming	0–255	Single tube 3-Effect dimming
33	Single Tube 3-Effect Selection	—	Based on the pipe diagram
		0–255	Single Tube 3-Effect Selection

CH	Function	DMX value	Description
34	Single tube 3 select X-bleach	0–255	obligate
		0–5	cease
		6–124	From left to right / fast to slow
35	Single Tube 3 Effect Speed	125–130	cease
		131–249	From right to left / slow to fast
		250–255	cease
		0–5	NF
36	Single tube 3 effect fade	6–255	Fade duration from short to long
37	Single Tube 3 Mode Space	0–255	obligate
38	Single tube 4 dim	0–255	Single tube 4 dim
		0–19	Turn off light
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
39	Single Tube 4-Flicker	145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (from fast to slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
40	Single tube 4-Duration	0–255	Single tube 4-Duration
41	Single tube 4-Effect dimming	0–255	Single tube 4-Effect dimming
42	Single Tube 4-Effect Selection	—	Based on the pipe diagram
		0–255	Single Tube 4-Effect Selection

CH	Function	DMX value	Description
43	Single tube 4 select X-bleach	0–255	obligate
		0–5	cease
		6–124	From left to right / fast to slow
44	Single tube 4 effect speed	125–130	cease
		131–249	From right to left / slow to fast
		250–255	cease
		0–5	NF
45	Single tube 4 effect fade	6–255	Fade duration from short to long
46	Single Tube 4 Mode Space	0–255	obligate
47	Single tube group (1-4) dimming	0–255	Single tube group (1-4) dimming
48	Single tube group (1-4) effect selection	—	Based on the pipe cluster mode chart
		0–255	Single tube group (1-4) effect selection
49	Change X fade for single tube group (1-4)	0–255	obligate
		0–5	cease
		6–124	From left to right / fast to slow
50	Single tube group (1-4) effect speed	125–130	cease
		131–249	From right to left / slow to fast
		250–255	cease
51	Single tube group (1-4) effect faded	0–5	NF
		6–255	Fade duration from short to long
52	Single Tube Group (1-4) Mode Space	0–255	obligate
53	RGB panel (1+2) -dim	0–255	RGB panel (1+2) -dim
54	RGB panel (1+2) - Blink	0–19	Turn off light
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
		145–149	opening the light

CH	Function	DMX value	Description
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (from fast to slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
55	RGB panel (1+2) - Duration	0–255	RGB panel (1+2) - Duration
56	RGB panel (1+2) -Red	0–255	RGB panel (1+2) -Red
57	RGB panel (1+2) - Green	0–255	RGB panel (1+2) - Green
58	RGB panel (1+2) -Blue	0–255	RGB panel (1+2) -Blue
		—	Affects RGB panel 1, +, 2 and mode
		—	Based on CTC images
		0–4	7000K
		5–226	2000K-6500 K linear, 20-21 K steps (see CTC table for details)
59	RGB Panel (1+2) -CTC	182–182	5600K
		226–226	6500K
		227–255	6621K-10.000 K-line with a step size of 120-121K (see CTC table for details)
60	RGB Panel (1+2) - Color Macro	—	Based on the ROXX color macro chart
		0–255	RGB Panel (1+2) - Color Macro
61	RGB panel (1+2) - Color macro x-Bleach	0–255	obligate
62	RGB Panel (1+2) - Effect Dim	0–255	RGB Panel (1+2) - Effect Dim
63	RGB Panel (1+2) - Effect Selection	0–255	RGB Panel (1+2) - Effect Selection
64	RGB Panel (1+2) - Pattern Selection X-Bleach	0–255	obligate
		0–5	cease
		6–124	From left to right / fast to slow
65	RGB Panel (1+2) - Effect Speed	125–130	cease
		131–249	From right to left / slow to fast
		250–255	cease
		0–5	NF

CH	Function	DMX value	Description
66	RGB Panel (1+2) -Fade Effect	6–255	Fade duration from short to long
67	RGB Panel (1+2) - Pattern Space	0–255	obligate
68	RGB Panel (1+2) -Red Effect	0–255	RGB Panel (1+2) -Red Effect
69	RGB Panel (1+2) - Green Effect	0–255	RGB Panel (1+2) - Green Effect
70	RGB Panel (1+2) -Blue Effect	0–255	RGB Panel (1+2) -Blue Effect
71	Device Settings	0–5	NF
		6–10	Show backlight (hold for 3 seconds)
		11–15	Show backlight off (hold for 3 seconds)
		16–18	NF
		19–23	DMX no signal black field (hold for 3 seconds)
		24–28	DMX no signal hold (hold for 3 seconds)
		29–33	DMX no-signal emergency lighting (hold for 3 seconds)
		34–36	NF
		37–41	Linear dimming curve (hold for 1.5 seconds)
		42–46	Exponential dimming curve (hold for 1.5 seconds)
		47–51	Logarithmic dimming curve (hold for 1.5s)
		52–56	S dimming curve (hold for 1.5 seconds)
		57–61	NF
		62–66	Quick dim (hold for 1.5 seconds)
		67–71	Medium dimming (hold for 1.5 seconds)
		72–76	Slow dim (hold for 1.5 seconds)
		77–80	NF
		81–85	NF
		86–90	NF
		91–93	NF
		94–98	NF
		99–103	NF
		104–108	NF
		109–113	NF
		114–118	NF
		119–123	NF
		124–126	NF
		127–131	Fan Auto (hold for 3 seconds)
		132–136	Fan mute (hold for 3 seconds)
		137–141	Fan off (hold for 3 seconds)
		142–146	Maximum fan power (hold for 3 seconds)
		147–149	NF

CH	Function	DMX value	Description
		150–153	Reverse RGB panel 1 off (hold for 1.5 seconds)
		154–157	Reverse RGB panel 1 on (hold for 1.5 seconds)
		158–161	Reverse RGB panel 2 off (hold for 1.5 seconds)
		162–165	Reverse RGB panel 2 opened (hold for 1.5 seconds)
		166–169	Reverse middle white (hold 1.5 seconds)
		170–173	Reverse middle white (hold 1.5 seconds)
		174–177	Reverse single tube 1 off (hold for 1.5 seconds)
		178–181	Reverse single tube 1 on (hold for 1.5s)
		182–185	Reverse single tube 2 off (hold for 1.5 seconds)
		186–189	Reverse single tube 2 on (hold for 1.5 seconds)
		190–193	Reverse single tube 3 off (hold for 1.5 seconds)
		194–197	Reverse single tube 3 on (hold for 1.5 seconds)
		198–201	Reverse single tube 4 off (hold for 1.5 seconds)
		202–205	Reverse single tube 4 open (hold for 1.5 seconds)
		206–209	Disable RGB panel (hold for 1.5 seconds)
		210–213	Switch to RGB panel (hold for 1.5 seconds)
		214–217	Close the exchange single tube (hold for 1.5 seconds)
		218–221	Open the exchange single tube (hold for 1.5 seconds)
		222–224	NF
		225–234	Y-axis reset
		235–255	NF

3.4 112 Channel Mode (Mode 4)

CH	Function	DMX value	Description
1	Middle white dimming	0–255	Middle white dimming
		0–19	Turn off light
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
2	White flicker in the middle	145–149	opening the light

CH	Function	DMX value	Description
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (from fast to slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
3	Central tube duration	0–255	Central tube duration
4	Central tube pixel 1-dimming	0–255	Central tube pixel 1-dimming
5	Central tube pixel 2-dimming	0–255	Central tube pixel 2-dimming
6	Central tube pixel 3-dimming	0–255	Central tube pixel 3-dimming
7	Central tube pixel 4-dimming	0–255	Central tube pixel 4-dimming
8	Central tube pixel 5-dimming	0–255	Central tube pixel 5-dimming
9	Central tube pixel 6-dimming	0–255	Central tube pixel 6-dimming
10	Central tube pixel 7-dimming	0–255	Central tube pixel 7-dimming
11	Central tube pixel 8-dimming	0–255	Central tube pixel 8-dimming
12	Central tube pixel 9-dimming	0–255	Central tube pixel 9-dimming
13	Central tube pixel 10- dimming	0–255	Central tube pixel 10-dimming
14	Central tube pixel 11- dimming	0–255	Central tube pixel 11-dimming
15	Central tube pixel 12- dimming	0–255	Central tube pixel 12-dimming
		0–19	Turn off light
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
16	Single Tube 1-Flash	145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)

CH	Function	DMX value	Description
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (Fast to Slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
17	Single tube 1-Duration	0–255	Single tube 1-Duration
18	Single tube 1 pixel 1-dimming	0–255	Single tube 1 pixel 1-dimming
19	Single tube 1 pixel 2-dimming	0–255	Single tube 1 pixel 2-dimming
20	Single tube 1 pixel 3-dimming	0–255	Single tube 1 pixel 3-dimming
21	Single tube 1 pixel 4-dimming	0–255	Single tube 1 pixel 4-dimming
22	Single tube 1 pixel 5-dimming	0–255	Single tube 1 pixel 5-dimming
23	Single tube 1 pixel 6-dimming	0–255	Single tube 1 pixel 6-dimming
24	Single tube 1 pixel 7-dimming	0–255	Single tube 1 pixel 7-dimming
25	Single tube 1 pixel 8-dimming	0–255	Single tube 1 pixel 8-dimming
26	Single tube 1 pixel 9-dimming	0–255	Single tube 1 pixel 9-dimming
27	Single tube 1 pixel 10- dimming	0–255	Single tube 1 pixel 10-dimming
28	Single tube 1 pixel 11- dimming	0–255	Single tube 1 pixel 11-dimming
29	Single tube 1 pixel 12- dimming	0–255	Single tube 1 pixel 12-dimming
		0–19	Turn off light
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
30	Single Tube 2-Flicker	145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light

CH	Function	DMX value	Description
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (Fast to Slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
31	Single tube 2-Duration	0–255	Single tube 2-Duration
32	Single tube 2 pixels 1- dimming	0–255	Single tube 2 pixels 1-dimming
33	Single tube 2 pixels 2- dimming	0–255	Single tube 2 pixels 2-dimming
34	Single tube 2 pixels 3- dimming	0–255	Single tube 2 pixels 3-dimming
35	Single tube 2-pixel 4-dimming	0–255	Single tube 2-pixel 4-dimming
36	Single tube 2 pixels 5- dimming	0–255	Single tube 2 pixels 5-dimming
37	Single tube 2 pixels 6-dim	0–255	Single tube 2 pixels 6-dim
38	Single tube 2-pixel 7-dimming	0–255	Single tube 2-pixel 7-dimming
39	Single tube 2-pixel 8-dimming	0–255	Single tube 2-pixel 8-dimming
40	Single tube 2 pixels 9- dimming	0–255	Single tube 2 pixels 9-dimming
41	Single tube 2 pixels 10- dimming	0–255	Single tube 2 pixels 10-dimming
42	Single tube 2 pixels 11- dimming	0–255	Single tube 2 pixels 11-dimming
43	Single tube 2 pixels 12- dimming	0–255	Single tube 2 pixels 12-dimming
		0–19	Turn off light
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
44	Single Tube 3-Flicker	145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)

CH	Function	DMX value	Description
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (from fast to slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
45	Single tube 3-Duration	0–255	Single tube 3-Duration
46	Single tube 3-pixel 1-dimming	0–255	Single tube 3-pixel 1-dimming
47	Single tube 3-pixel 2-dimming	0–255	Single tube 3-pixel 2-dimming
48	Single tube 3-pixel 3-way dimming	0–255	Single tube 3-pixel 3-way dimming
49	Single tube 3-pixel 4-dimming	0–255	Single tube 3-pixel 4-dimming
50	Single tube 3-pixel 5-dimming	0–255	Single tube 3-pixel 5-dimming
51	Single tube 3-pixel 6-dimming	0–255	Single tube 3-pixel 6-dimming
52	Single tube 3-pixel 7-dimming	0–255	Single tube 3-pixel 7-dimming
53	Single tube 3-pixel 8-dimming	0–255	Single tube 3-pixel 8-dimming
54	Single tube 3-pixel 9-dimming	0–255	Single tube 3-pixel 9-dimming
55	Single tube 3-pixel 10- dimming	0–255	Single tube 3-pixel 10-dimming
56	Single tube 3-pixel 11- dimming	0–255	Single tube 3-pixel 11-dimming
57	Single tube 3-pixel 12-tone dimming	0–255	Single tube 3-pixel 12-tone dimming
		0–19	Turn off light
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
58	Single Tube 4-Flicker	145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)

CH	Function	DMX value	Description
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (from fast to slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
59	Single tube 4-Duration	0–255	Single tube 4-Duration
60	Single tube 4-pixel 1-dimming	0–255	Single tube 4-pixel 1-dimming
61	Single tube 4-pixel 2-tone dimming	0–255	Single tube 4-pixel 2-tone dimming
62	Single tube 4-pixel 3-way dimming	0–255	Single tube 4-pixel 3-way dimming
63	Single tube 4-pixel 4-dimming	0–255	Single tube 4-pixel 4-dimming
64	Single tube 4-pixel 5-dimming	0–255	Single tube 4-pixel 5-dimming
65	Single tube 4-pixel 6-way dimming	0–255	Single tube 4-pixel 6-way dimming
66	Single tube 4-pixel 7-way dimming	0–255	Single tube 4-pixel 7-way dimming
67	Single tube 4-pixel 8-way dimming	0–255	Single tube 4-pixel 8-way dimming
68	Single tube 4-pixel 9-dimming	0–255	Single tube 4-pixel 9-dimming
69	Single tube 4-pixel 10- dimming	0–255	Single tube 4-pixel 10-dimming
70	Single tube 4 pixels 11- dimming	0–255	Single tube 4 pixels 11-dimming
71	Single tube 4-pixel 12-tone dimming	0–255	Single tube 4-pixel 12-tone dimming
		0–19	Turn off light
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
72	RGB Panel 1-Blink	145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)

CH	Function	DMX value	Description
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (Fast to Slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
73	RGB Panel 1-Duration	0–255	RGB Panel 1-Duration
74	RGB Panel 1-Red 1	0–255	RGB Panel 1-Red 1
75	RGB Panel 1-Green 1	0–255	RGB Panel 1-Green 1
76	RGB Panel 1-Blue 1	0–255	RGB Panel 1-Blue 1
77	RGB Panel 1-Red 2	0–255	RGB Panel 1-Red 2
78	RGB Panel 1-Green 2	0–255	RGB Panel 1-Green 2
79	RGB Panel 1-Blue 2	0–255	RGB Panel 1-Blue 2
80	RGB Panel 1-Red 3	0–255	RGB Panel 1-Red 3
81	RGB Panel 1-Green 3	0–255	RGB Panel 1-Green 3
82	RGB Panel 1-Blue 3	0–255	RGB Panel 1-Blue 3
83	RGB Panel 1-Red 4	0–255	RGB Panel 1-Red 4
84	RGB Panel 1-Green 4	0–255	RGB Panel 1-Green 4
85	RGB Panel 1-Blue 4	0–255	RGB Panel 1-Blue 4
86	RGB Panel 1-Red 5	0–255	RGB Panel 1-Red 5
87	RGB Panel 1-Green 5	0–255	RGB Panel 1-Green 5
88	RGB Panel 1-Blue 5	0–255	RGB Panel 1-Blue 5
89	RGB Panel 1-Red 6	0–255	RGB Panel 1-Red 6
90	RGB Panel 1-Green 6	0–255	RGB Panel 1-Green 6
91	RGB Panel 1-Blue 6	0–255	RGB Panel 1-Blue 6
92	RGB Panel 2-Blink	0–19	Turn off light
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light

CH	Function	DMX value	Description
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
		145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (Fast to Slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
93	RGB Panel 2-Duration	0–255	RGB Panel 2-Duration
94	RGB Panel 2-Red 1	0–255	RGB Panel 2-Red 1
95	RGB Panel 2-Green 1	0–255	RGB Panel 2-Green 1
96	RGB Panel 2-Blue 1	0–255	RGB Panel 2-Blue 1
97	RGB Panel 2-Red 2	0–255	RGB Panel 2-Red 2
98	RGB Panel 2-Green 2	0–255	RGB Panel 2-Green 2
99	RGB Panel 2-Blue 2	0–255	RGB Panel 2-Blue 2
100	RGB Panel 2-Red 3	0–255	RGB Panel 2-Red 3
101	RGB Panel 2-Green 3	0–255	RGB Panel 2-Green 3
102	RGB Panel 2-Blue 3	0–255	RGB Panel 2-Blue 3
103	RGB Panel 2-Red 4	0–255	RGB Panel 2-Red 4
104	RGB Panel 2-Green 4	0–255	RGB Panel 2-Green 4
105	RGB Panel 2-Blue 4	0–255	RGB Panel 2-Blue 4
106	RGB Panel 2-Red 5	0–255	RGB Panel 2-Red 5
107	RGB Panel 2-Green 5	0–255	RGB Panel 2-Green 5
108	RGB Panel 2-Blue 5	0–255	RGB Panel 2-Blue 5
109	RGB Panel 2-Red 6	0–255	RGB Panel 2-Red 6
110	RGB Panel 2-Green 6	0–255	RGB Panel 2-Green 6
111	RGB Panel 2-Blue 6	0–255	RGB Panel 2-Blue 6
112	Device Settings	0–5	NF
		6–10	Show backlight (hold for 3 seconds)
		11–15	Show backlight off (hold for 3 seconds)

CH	Function	DMX value	Description
		16–18	NF
		19–23	DMX no signal black field (hold for 3 seconds)
		24–28	DMX no signal hold (hold for 3 seconds)
		29–33	DMX no-signal emergency lighting (hold for 3 seconds)
		34–36	NF
		37–41	Linear dimming curve (hold for 1.5 seconds)
		42–46	Exponential dimming curve (hold for 1.5 seconds)
		47–51	Logarithmic dimming curve (hold for 1.5s)
		52–56	S dimming curve (hold for 1.5 seconds)
		57–61	NF
		62–66	Quick dim (hold for 1.5 seconds)
		67–71	Medium dimming (hold for 1.5 seconds)
		72–76	Slow dim (hold for 1.5 seconds)
		77–80	NF
		81–85	NF
		86–90	NF
		91–93	NF
		94–98	NF
		99–103	NF
		104–108	NF
		109–113	NF
		114–118	NF
		119–123	NF
		124–126	NF
		127–131	Fan Auto (hold for 3 seconds)
		132–136	Fan mute (hold for 3 seconds)
		137–141	Fan off (hold for 3 seconds)
		142–146	Maximum fan power (hold for 3 seconds)
		147–149	NF
		150–153	Reverse RGB panel 1 off (hold for 1.5 seconds)
		154–157	Reverse RGB panel 1 on (hold for 1.5 seconds)
		158–161	Reverse RGB panel 2 off (hold for 1.5 seconds)
		162–165	Reverse RGB panel 2 open (hold for 1.5 seconds)
		166–169	Reverse middle white (hold 1.5 seconds)
		170–173	Reverse middle white (hold 1.5 seconds)
		174–177	Reverse single tube 1 off (hold for 1.5 seconds)
		178–181	Reverse single tube 1 on (hold for 1.5s)

CH	Function	DMX value	Description
		182–185	Reverse single tube 2 off (hold for 1.5 seconds)
		186–189	Reverse single tube 2 on (hold for 1.5 seconds)
		190–193	Reverse single tube 3 off (hold for 1.5 seconds)
		194–197	Reverse single tube 3 on (hold for 1.5 seconds)
		198–201	Reverse single tube 4 off (hold for 1.5 seconds)
		202–205	Reverse single tube 4 open (hold for 1.5 seconds)
		206–209	Disable RGB panel (hold for 1.5 seconds)
		210–213	Switch to RGB panel (hold for 1.5 seconds)
		214–217	Close the exchange single tube (hold for 1.5 seconds)
		218–221	Open the exchange single tube (hold for 1.5 seconds)
		222–224	NF
		225–234	Y-axis reset
		235–255	NF

3.5 178 Channel Mode (Mode 5)

CH	Function	DMX value	Description
1	Total dimming	0–255	Total dimming
2	Central tube pixel 1-dimming	0–255	Central tube pixel 1-dimming
3	Central tube pixel 2-dimming	0–255	Central tube pixel 2-dimming
4	Central tube pixel 3-dimming	0–255	Central tube pixel 3-dimming
5	Central tube pixel 4-dimming	0–255	Central tube pixel 4-dimming
6	Central tube pixel 5-dimming	0–255	Central tube pixel 5-dimming
7	Central tube pixel 6-dimming	0–255	Central tube pixel 6-dimming
8	Central tube pixel 7-dimming	0–255	Central tube pixel 7-dimming
9	Central tube pixel 8-dimming	0–255	Central tube pixel 8-dimming
10	Central tube pixel 9-dimming	0–255	Central tube pixel 9-dimming
11	Central tube pixel 10- dimming	0–255	Central tube pixel 10-dimming
12	Central tube pixel 11- dimming	0–255	Central tube pixel 11-dimming
13	Central tube pixel 12- dimming	0–255	Central tube pixel 12-dimming
14	White flicker in the middle	0–19	Turn off light
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light

CH	Function	DMX value	Description
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
		145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (from fast to slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
15	White space duration	0–255	White space duration
16	Center effect dimming	0–255	Center effect dimming
		—	Based on the pipe diagram
17	Center effect selection	0–255	Center effect selection
18	Select X-bleach for the central tube	0–255	obligate
		0–5	cease
		6–124	From left to right / fast to slow
19	Center effect speed	125–130	cease
		131–249	From right to left / slow to fast
		250–255	cease
		0–5	NF
20	Center effect faded	6–255	Fade duration from short to long
21	Central tube space	0–255	obligate
22	Single tube 1-pixel 1-dimming	0–255	Single tube 1-pixel 1-dimming
23	Single tube 1-pixel 2-dimming	0–255	Single tube 1-pixel 2-dimming
24	Single tube 1-pixel 3-dimming	0–255	Single tube 1-pixel 3-dimming
25	Single tube 1-pixel 4-dimming	0–255	Single tube 1-pixel 4-dimming
26	Single tube 1-pixel 5-dimming	0–255	Single tube 1-pixel 5-dimming
27	Single tube 1-pixel 6-dimming	0–255	Single tube 1-pixel 6-dimming
28	Single tube 1-pixel 7-dimming	0–255	Single tube 1-pixel 7-dimming
29	Single tube 1-pixel 8-dimming	0–255	Single tube 1-pixel 8-dimming
30	Single tube 1-pixel 9-dimming	0–255	Single tube 1-pixel 9-dimming

CH	Function	DMX value	Description
31	Single tube 1-pixel 10- dimming	0–255	Single tube 1-pixel 10-dimming
32	Single tube 1-pixel 11- dimming	0–255	Single tube 1-pixel 11-dimming
33	Single tube 1-pixel 12- dimming	0–255	Single tube 1-pixel 12-dimming
34	Single Tube 1-Flash	0–19	Turn off light
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
		145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (Fast to Slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
35	Single tube 1-Duration	0–255	Single tube 1-Duration
36	Single tube 1-Effect dimming	0–255	Single tube 1-Effect dimming
37	Single Tube 1-Effect Selection	—	Based on the pipe diagram
		0–255	Single Tube 1-Effect Selection
38	Select X-bleach for single tube 1	0–255	obligate
		0–5	cease
		6–124	From left to right / fast to slow
39	Single tube 1 effect speed	125–130	cease
		131–249	From right to left / slow to fast
		250–255	cease
		0–5	NF

CH	Function	DMX value	Description
40	Single tube 1 effect faded	6–255	Fade duration from short to long
41	Single Tube 1 Mode Space	0–255	obligate
42	Single tube 2 pixels 1- dimming	0–255	Single tube 2 pixels 1-dimming
43	Single tube 2 pixels 2- dimming	0–255	Single tube 2 pixels 2-dimming
44	Single tube 2 pixels 3- dimming	0–255	Single tube 2 pixels 3-dimming
45	Single tube 2-pixel 4-dimming	0–255	Single tube 2-pixel 4-dimming
46	Single tube 2 pixels 5- dimming	0–255	Single tube 2 pixels 5-dimming
47	Single tube 2 pixels 6-dim	0–255	Single tube 2 pixels 6-dim
48	Single tube 2-pixel 7-dimming	0–255	Single tube 2-pixel 7-dimming
49	Single tube 2-pixel 8-dimming	0–255	Single tube 2-pixel 8-dimming
50	Single tube 2 pixels 9- dimming	0–255	Single tube 2 pixels 9-dimming
51	Single tube 2 pixels 10- dimming	0–255	Single tube 2 pixels 10-dimming
52	Single tube 2 pixels 11- dimming	0–255	Single tube 2 pixels 11-dimming
53	Single tube 2 pixels 12- dimming	0–255	Single tube 2 pixels 12-dimming
		0–19	Turn off light
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
54	Single Tube 2-Flicker	145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (from fast to slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)

CH	Function	DMX value	Description
55	Single tube 2-Duration	0–255	Single tube 2-Duration
56	Single tube 2-Effect dimming	0–255	Single tube 2-Effect dimming
57	Single Tube 2-Effect Selection	—	Based on the pipe diagram
		0–255	Single Tube 2-Effect Selection
58	Single tube 2 select X-bleach	0–255	obligate
		0–5	cease
		6–124	From left to right / fast to slow
59	Single Tube 2 Effect Speed	125–130	cease
		131–249	From right to left / slow to fast
		250–255	cease
		0–5	NF
60	Single tube 2 effect fade	6–255	Fade duration from short to long
61	Single Tube 2 Mode Space	0–255	obligate
62	Single tube 3-pixel 1-dimming	0–255	Single tube 3-pixel 1-dimming
63	Single tube 3-pixel 2-dimming	0–255	Single tube 3-pixel 2-dimming
64	Single tube 3-pixel 3-way dimming	0–255	Single tube 3-pixel 3-way dimming
65	Single tube 3-pixel 4-dimming	0–255	Single tube 3-pixel 4-dimming
66	Single tube 3-pixel 5-dimming	0–255	Single tube 3-pixel 5-dimming
67	Single tube 3-pixel 6-dimming	0–255	Single tube 3-pixel 6-dimming
68	Single tube 3-pixel 7-dimming	0–255	Single tube 3-pixel 7-dimming
69	Single tube 3-pixel 8-dimming	0–255	Single tube 3-pixel 8-dimming
70	Single tube 3-pixel 9-dimming	0–255	Single tube 3-pixel 9-dimming
71	Single tube 3-pixel 10- dimming	0–255	Single tube 3-pixel 10-dimming
72	Single tube 3-pixel 11- dimming	0–255	Single tube 3-pixel 11-dimming
73	Single tube 3-pixel 12-tone dimming	0–255	Single tube 3-pixel 12-tone dimming
74	Single Tube 3-Flicker	0–19	Turn off light
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)

CH	Function	DMX value	Description
		145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (Fast to Slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
75	Single tube 3-Duration	0–255	Single tube 3-Duration
76	Single tube 3-Effect dimming	0–255	Single tube 3-Effect dimming
77	Single Tube 3-Effect Selection	—	Based on the pipe diagram
		0–255	Single Tube 3-Effect Selection
78	Single tube 3 select X-bleach	0–255	obligate
		0–5	cease
		6–124	From left to right / fast to slow
79	Single Tube 3 Effect Speed	125–130	cease
		131–249	From right to left / slow to fast
		250–255	cease
		0–5	NF
80	Single tube 3 effect fade	6–255	Fade duration from short to long
81	Single Tube 3 Mode Space	0–255	obligate
82	Single tube 4-pixel 1-dimming	0–255	Single tube 4-pixel 1-dimming
83	Single tube 4-pixel 2-tone dimming	0–255	Single tube 4-pixel 2-tone dimming
84	Single tube 4-pixel 3-way dimming	0–255	Single tube 4-pixel 3-way dimming
85	Single tube 4-pixel 4-dimming	0–255	Single tube 4-pixel 4-dimming
86	Single tube 4-pixel 5-dimming	0–255	Single tube 4-pixel 5-dimming
87	Single tube 4-pixel 6-way dimming	0–255	Single tube 4-pixel 6-way dimming
88	Single tube 4-pixel 7-dimming	0–255	Single tube 4-pixel 7-dimming
89	Single tube 4-pixel 8-way dimming	0–255	Single tube 4-pixel 8-way dimming
90	Single tube 4-pixel 9-dimming	0–255	Single tube 4-pixel 9-dimming
91	Single tube 4-pixel 10- dimming	0–255	Single tube 4-pixel 10-dimming

CH	Function	DMX value	Description
92	Single tube 4 pixels 11- dimming	0–255	Single tube 4 pixels 11-dimming
93	Single tube 4-pixel 12-tone dimming	0–255	Single tube 4-pixel 12-tone dimming
		0–19	Turn off light
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
94	Single Tube 4-Flicker	145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (from fast to slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
95	Single tube 4-Duration	0–255	Single tube 4-Duration
96	Single tube 4-Effect dimming	0–255	Single tube 4-Effect dimming
97	Single Tube 4-Effect Selection	—	Based on the pipe diagram
		0–255	Single Tube 4-Effect Selection
98	Single tube 4 select X-bleach	0–255	obligate
		0–5	cease
		6–124	From left to right / fast to slow
99	Single tube 4 effect speed	125–130	cease
		131–249	From right to left / slow to fast
		250–255	cease
		0–5	NF
100	Single tube 4 effect fade	6–255	Fade duration from short to long

CH	Function	DMX value	Description
101	Single Tube 4 Mode Space	0–255	obligate
102	Single tube group (1-4) dimming	0–255	Single tube group (1-4) dimming
103	Single tube group (1-4) effect selection	—	Based on the pipe cluster mode chart
		0–255	Single tube group (1-4) effect selection
104	Change X fade for single tube group (1-4)	0–255	obligate
		0–5	cease
		6–124	From left to right / fast to slow
105	Single tube group (1-4) effect speed	125–130	cease
		131–249	From right to left / slow to fast
		250–255	cease
106	Single tube group (1-4) effect faded	0–5	NF
		6–255	Fade duration from short to long
107	Single Tube Group (1-4) Mode Space	0–255	obligate
		0–19	Turn off light
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
108	RGB Panel 1-Blink	145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (from fast to slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)

CH	Function	DMX value	Description
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
109	RGB Panel 1-Duration	0–255	RGB Panel 1-Duration
110	RGB Panel 1-Effect Dim	0–255	RGB Panel 1-Effect Dim
		—	Based on the RGB panel mode diagram
111	RGB Panel 1-Effect Selection	0–255	RGB Panel 1-Effect Selection
112	RGB Panel 1-Pattern Selection X-Bleach	0–255	obligate
		0–5	cease
		6–124	From left to right / fast to slow
113	RGB Panel 1-Effect Speed	125–130	cease
		131–249	From right to left / slow to fast
		250–255	cease
		0–5	NF
114	RGB Panel 1-Fade Effect	6–255	Fade duration from short to long
115	RGB Panel 1-Pattern Space	0–255	obligate
116	RGB Panel 1-Red Effect	0–255	RGB Panel 1-Red Effect
117	RGB Panel 1-Green Effect	0–255	RGB Panel 1-Green Effect
118	RGB Panel 1-Blue Effect	0–255	RGB Panel 1-Blue Effect
		—	Based on CTC images
		0–4	7000K
		5–226	2000K-6500 K linear, 20-21 K steps
119	RGB Panel 1-CTC	182–182	5600K
		183–226	6500K
		227–255	6621K-10.000 K-line with a step size of 120-121K (see CTC table for details)
120	RGB Panel 1-Red 1	0–255	RGB Panel 1-Red 1
121	RGB Panel 1-Green 1	0–255	RGB Panel 1-Green 1
122	RGB Panel 1-Blue 1	0–255	RGB Panel 1-Blue 1
123	RGB Panel 1-Red 2	0–255	RGB Panel 1-Red 2
124	RGB Panel 1-Green 2	0–255	RGB Panel 1-Green 2
125	RGB Panel 1-Blue 2	0–255	RGB Panel 1-Blue 2
126	RGB Panel 1-Red 3	0–255	RGB Panel 1-Red 3
127	RGB Panel 1-Green 3	0–255	RGB Panel 1-Green 3
128	RGB Panel 1-Blue 3	0–255	RGB Panel 1-Blue 3
129	RGB Panel 1-Red 4	0–255	RGB Panel 1-Red 4
130	RGB Panel 1-Green 4	0–255	RGB Panel 1-Green 4
131	RGB Panel 1-Blue 4	0–255	RGB Panel 1-Blue 4

CH	Function	DMX value	Description
132	RGB Panel 1-Red 5	0–255	RGB Panel 1-Red 5
133	RGB Panel 1-Green 5	0–255	RGB Panel 1-Green 5
134	RGB Panel 1-Blue 5	0–255	RGB Panel 1-Blue 5
135	RGB Panel 1-Red 6	0–255	RGB Panel 1-Red 6
136	RGB Panel 1-Green 6	0–255	RGB Panel 1-Green 6
137	RGB Panel 1-Blue 6	0–255	RGB Panel 1-Blue 6
		0–19	Turn off light
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
138	RGB Panel 2-Blink	145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (Fast to Slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
139	RGB Panel 2-Duration	0–255	RGB Panel 2-Duration
140	RGB Panel 2-Effect Dim	0–255	RGB Panel 2-Effect Dim
		—	From the RGB panel mode diagram
141	RGB Panel 2-Effect Selection	0–255	RGB Panel 2-Effect Selection
142	RGB Panel 2-Pattern Selection X-Light	0–255	obligate
		0–5	cease
		6–124	From left to right / fast to slow
143	RGB Panel 2-Effect Speed	125–130	cease

CH	Function	DMX value	Description
		131–249	From right to left / slow to fast
		250–255	cease
		0–5	NF
144	RGB Panel 2-Fade Effect	6–255	Fade duration from short to long
145	RGB Panel 2-Mode Space	0–255	obligate
146	RGB Panel 2-Red Effect	0–255	RGB Panel 2-Red Effect
147	RGB Panel 2-Green Effect	0–255	RGB Panel 2-Green Effect
148	RGB Panel 2-Blue Effect	0–255	RGB Panel 2-Blue Effect
		—	Panel 2 and RGB Panel Mode 2
		—	Protocol to CTC chart
		0–4	7000K
		5–226	2000K-6500 K linear, 20-21 K steps (see CTC table for details)
149	RGB Panel 2-CTC	182–182	5600K
		226–226	6500K
		227–255	6621K-10.000 K-line with a step size of 120-121K (see CTC table for details)
150	RGB Panel 2-Red 1	0–255	RGB Panel 2-Red 1
151	RGB Panel 2-Green 1	0–255	RGB Panel 2-Green 1
152	RGB Panel 2-Blue 1	0–255	RGB Panel 2-Blue 1
153	RGB Panel 2-Red 2	0–255	RGB Panel 2-Red 2
154	RGB Panel 2-Green 2	0–255	RGB Panel 2-Green 2
155	RGB Panel 2-Blue 2	0–255	RGB Panel 2-Blue 2
156	RGB Panel 2-Red 3	0–255	RGB Panel 2-Red 3
157	RGB Panel 2-Green 3	0–255	RGB Panel 2-Green 3
158	RGB Panel 2-Blue 3	0–255	RGB Panel 2-Blue 3
159	RGB Panel 2-Red 4	0–255	RGB Panel 2-Red 4
160	RGB Panel 2-Green 4	0–255	RGB Panel 2-Green 4
161	RGB Panel 2-Blue 4	0–255	RGB Panel 2-Blue 4
162	RGB Panel 2-Red 5	0–255	RGB Panel 2-Red 5
163	RGB Panel 2-Green 5	0–255	RGB Panel 2-Green 5
164	RGB Panel 2-Blue 5	0–255	RGB Panel 2-Blue 5
165	RGB Panel 2-Red 6	0–255	RGB Panel 2-Red 6
166	RGB Panel 2-Green 6	0–255	RGB Panel 2-Green 6
167	RGB Panel 2-Blue 6	0–255	RGB Panel 2-Blue 6
168	RGB panel (1+2) effect dimming	0–255	RGB panel (1+2) effect dimming
169	RGB panel (1+2) effect selection	—	RGB panel mode diagram
		0–255	RGB panel (1+2) effect selection

CH	Function	DMX value	Description
170	RGB panel (1+2) select X-in	0–255	obligate
171	RGB panel (1+2) effect speed	0–5	cease
		6–124	From left to right / fast to slow
		125–130	cease
		131–249	From right to left / slow to fast
		250–255	cease
		0–5	NF
172	RGB panel (1+2) effect fade	6–255	Fade duration from short to long
173	RGB panel (1+2) mode space	0–255	obligate
174	RGB panel (1+2) effect red	0–255	RGB panel (1+2) effect red
175	RGB panel (1+2) effect green	0–255	RGB panel (1+2) effect green
176	RGB panel (1+2) effect blue	0–255	RGB panel (1+2) effect blue
		—	Based on CTC images
		0–4	7000K
		5–226	The K-line shows a linear distribution with a step size of 20-21K (see
177	RGB Panel (1+2) CTC	182–182	CTC chart for details). 5600K
		226–226	6500K
		227–255	6621K-10.000 K-line at the 120-121K level (see detailed CTC chart)
178	Device Settings	0–5	NF
		6–10	Show backlight (hold for 3 seconds)
		11–15	Show backlight off (hold for 3 seconds)
		16–18	NF
		19–23	DMX no signal black field (hold for 3 seconds)
		24–28	DMX no signal hold (hold for 3 seconds)
		29–33	DMX no-signal emergency lighting (3 seconds)
		34–36	NF
		37–41	Linear dimming curve (hold for 1.5 seconds)
		42–46	Exponential dimming curve (hold for 1.5 seconds)
		47–51	Logarithmic dimming curve (hold for 1.5s)
		52–56	S dimming curve (hold for 1.5 seconds)
		57–61	NF
		62–66	Quick dim (hold for 1.5 seconds)
		67–71	Medium dimming (hold for 1.5 seconds)
		72–76	Slow dim (hold for 1.5 seconds)
		77–80	NF
		81–85	NF

CH	Function	DMX value	Description
		86–90	NF
		91–93	NF
		94–98	NF
		99–103	NF
		104–108	NF
		109–113	NF
		114–118	NF
		119–123	NF
		124–126	NF
		127–131	Fan Auto (hold for 3 seconds)
		132–136	Fan mute (hold for 3 seconds)
		137–141	Fan off (hold for 3 seconds)
		142–146	Fan maximum power (hold for 3 seconds)
		147–149	NF
		150–153	Reverse RGB panel 1 off (hold for 1.5 seconds)
		154–157	Reverse RGB panel 1 on (hold for 1.5 seconds)
		158–161	Reverse RGB panel 2 off (hold for 1.5 seconds)
		162–165	Reverse RGB panel 2 open (hold for 1.5 seconds)
		166–169	Reverse middle white (hold 1.5 seconds)
		170–173	Reverse middle white (hold 1.5 seconds)
		174–177	Reverse single tube 1 off (hold for 1.5 seconds)
		178–181	Reverse single tube 1 on (hold for 1.5s)
		182–185	Reverse single tube 2 off (hold for 1.5 seconds)
		186–189	Reverse single tube 2 on (hold for 1.5 seconds)
		190–193	Reverse single tube 3 off (hold for 1.5 seconds)
		194–197	Reverse single tube 3 on (hold for 1.5 seconds)
		198–201	Reverse single tube 4 off (hold for 1.5 seconds)
		202–205	Reverse single tube 4 open (hold for 1.5 seconds)
		206–209	Disable RGB panel (hold for 1.5 seconds)
		210–213	Switch to RGB panel (hold for 1.5 seconds)
		214–217	Close the exchange single tube (hold for 1.5 seconds)
		218–221	Open the exchange single tube (hold for 1.5 seconds)
		222–224	NF
		225–234	Y-axis reset
		235–255	NF

3.6 209 Channel Mode (Mode 6)

CH	Function	DMX value	Description
1	Total dimming	0–255	Total dimming
2	Global dimming fine adjustment	0–255	Global dimming fine adjustment
		0–19	Turn off light
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
3	White flicker in the middle	145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (Fast to Slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
4	Central tube duration	0–255	Central tube duration
5	Central tube pixel 1-dimming	0–255	Central tube pixel 1-dimming
6	Central tube pixel 1-dimming fine adjustment	0–255	Central tube pixel 1-dimming fine adjustment
7	Central tube pixel 2-dimming	0–255	Central tube pixel 2-dimming
8	Central tube pixel 2-dimming fine adjustment	0–255	Central tube pixel 2-dimming fine adjustment
9	Central tube pixel 3-dimming	0–255	Central tube pixel 3-dimming
10	Central tube pixel 3 dimming fine adjustment	0–255	Central tube pixel 3 dimming fine adjustment
11	Central tube pixel 4-dimming	0–255	Central tube pixel 4-dimming
12	Central tube pixel 4-dimming fine adjustment	0–255	Central tube pixel 4-dimming fine adjustment

CH	Function	DMX value	Description
13	Central tube pixel 5-dimming	0–255	Central tube pixel 5-dimming
14	Central tube pixel 5-dimming fine adjustment	0–255	Central tube pixel 5-dimming fine adjustment
15	Central tube pixel 6-dimming	0–255	Central tube pixel 6-dimming
16	Central tube pixel 6-dimming fine adjustment	0–255	Central tube pixel 6-dimming fine adjustment
17	Central tube pixel 7-dimming	0–255	Central tube pixel 7-dimming
18	Central tube pixel 7-dimming fine adjustment	0–255	Central tube pixel 7-dimming fine adjustment
19	Central tube pixel 8-dimming	0–255	Central tube pixel 8-dimming
20	Central tube pixel 8-dimming fine adjustment	0–255	Central tube pixel 8-dimming fine adjustment
21	Central tube pixel 9-dimming	0–255	Central tube pixel 9-dimming
22	Central tube pixel 9-dimming fine adjustment	0–255	Central tube pixel 9-dimming fine adjustment
23	Central tube pixel 10- dimming	0–255	Central tube pixel 10-dimming
24	Central tube pixel 10- dimming fine adjustment	0–255	Central tube pixel 10-dimming fine adjustment
25	Central tube pixel 11- dimming	0–255	Central tube pixel 11-dimming
26	Central tube pixel 11- dimming fine adjustment	0–255	Central tube pixel 11-dimming fine adjustment
27	Central tube pixel 12- dimming	0–255	Central tube pixel 12-dimming
28	Central tube pixel 12- dimming fine adjustment	0–255	Central tube pixel 12-dimming fine adjustment
29	Single Tube 1-Flash	0–19	Turn off light
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
		145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light

CH	Function	DMX value	Description
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (from fast to slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
30	Single tube 1-Duration	0–255	Single tube 1-Duration
31	Single tube 1 pixel 1-dimming	0–255	Single tube 1 pixel 1-dimming
32	Single tube 1 pixel 1-dimming fine adjustment	0–255	Single tube 1 pixel 1-dimming fine adjustment
33	Single tube 1 pixel 2-dimming	0–255	Single tube 1 pixel 2-dimming
34	Single tube 1 pixel 2-dimming fine adjustment	0–255	Single tube 1 pixel 2-dimming fine adjustment
35	Single tube 1 pixel 3-dimming	0–255	Single tube 1 pixel 3-dimming
36	Single tube 1 pixel 3-dimming fine adjustment	0–255	Single tube 1 pixel 3-dimming fine adjustment
37	Single tube 1 pixel 4-dimming	0–255	Single tube 1 pixel 4-dimming
38	Single-pixel 4-way dimming adjustment	0–255	Single-pixel 4-way dimming adjustment
39	Single tube 1 pixel 5-dimming	0–255	Single tube 1 pixel 5-dimming
40	Single tube 1 pixel 5-dimming fine adjustment	0–255	Single tube 1 pixel 5-dimming fine adjustment
41	Single tube 1 pixel 6-dimming	0–255	Single tube 1 pixel 6-dimming
42	Single tube 1 pixel 6-dimming fine adjustment	0–255	Single tube 1 pixel 6-dimming fine adjustment
43	Single tube 1 pixel 7-dimming	0–255	Single tube 1 pixel 7-dimming
44	Single-pixel 7-way dimming adjustment	0–255	Single-pixel 7-way dimming adjustment
45	Single tube 1 pixel 8-dimming	0–255	Single tube 1 pixel 8-dimming
46	Single tube 1 pixel 8-dimming fine adjustment	0–255	Single tube 1 pixel 8-dimming fine adjustment
47	Single tube 1 pixel 9-dimming	0–255	Single tube 1 pixel 9-dimming
48	Single tube 1 pixel 9-dimming fine adjustment	0–255	Single tube 1 pixel 9-dimming fine adjustment
49	Single tube 1 pixel 10- dimming	0–255	Single tube 1 pixel 10-dimming
50	Single tube 1 pixel 10- dimming fine adjustment	0–255	Single tube 1 pixel 10-dimming fine adjustment
51	Single tube 1 pixel 11- dimming	0–255	Single tube 1 pixel 11-dimming
52	Single tube 1 pixel 11- dimming fine adjustment	0–255	Single tube 1 pixel 11-dimming fine adjustment

CH	Function	DMX value	Description
53	Single tube 1 pixel 12- dimming	0–255	Single tube 1 pixel 12-dimming
54	Single tube 1 pixel 12- dimming fine adjustment	0–255	Single tube 1 pixel 12-dimming fine adjustment
		0–19	Turn off light
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
55	Single Tube 2-Flicker	145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (Fast to Slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
56	Single tube 2-Duration	0–255	Single tube 2-Duration
57	Single tube 2 pixels 1- dimming	0–255	Single tube 2 pixels 1-dimming
58	Single tube 2 pixels 1- dimming fine adjustment	0–255	Single tube 2 pixels 1-dimming fine adjustment
59	Single tube 2 pixels 2- dimming	0–255	Single tube 2 pixels 2-dimming
60	Single tube 2-pixel 2-tone dimming fine adjustment	0–255	Single tube 2-pixel 2-tone dimming fine adjustment
61	Single tube 2 pixels 3- dimming	0–255	Single tube 2 pixels 3-dimming
62	Single tube 2-pixel 3-dimming fine adjustment	0–255	Single tube 2-pixel 3-dimming fine adjustment
63	Single tube 2-pixel 4-dimming	0–255	Single tube 2-pixel 4-dimming
64	Single tube 2-pixel 4-tone dimming fine adjustment	0–255	Single tube 2-pixel 4-tone dimming fine adjustment

CH	Function	DMX value	Description
65	Single tube 2 pixels 5- dimming	0–255	Single tube 2 pixels 5-dimming
66	Single tube 2-pixel 5-dimming fine adjustment	0–255	Single tube 2-pixel 5-dimming fine adjustment
67	Single tube 2 pixels 6-dim	0–255	Single tube 2 pixels 6-dim
68	Single tube 2-pixel 6-dimming fine adjustment	0–255	Single tube 2-pixel 6-dimming fine adjustment
69	Single tube 2-pixel 7-dimming	0–255	Single tube 2-pixel 7-dimming
70	Single tube 2-pixel 7-tone dimming fine adjustment	0–255	Single tube 2-pixel 7-tone dimming fine adjustment
71	Single tube 2-pixel 8-dimming	0–255	Single tube 2-pixel 8-dimming
72	Single tube 2-pixel 8-tone dimming fine adjustment	0–255	Single tube 2-pixel 8-tone dimming fine adjustment
73	Single tube 2 pixels 9- dimming	0–255	Single tube 2 pixels 9-dimming
74	Single tube 2-pixel 9-DIMM fine adjustment	0–255	Single tube 2-pixel 9-DIMM fine adjustment
75	Single tube 2 pixels 10- dimming	0–255	Single tube 2 pixels 10-dimming
76	Single tube 2-pixel 10- dimming fine adjustment	0–255	Single tube 2-pixel 10-dimming fine adjustment
77	Single tube 2 pixels 11- dimming	0–255	Single tube 2 pixels 11-dimming
78	Single tube 2 pixels 11- dimming fine adjustment	0–255	Single tube 2 pixels 11-dimming fine adjustment
79	Single tube 2 pixels 12- dimming	0–255	Single tube 2 pixels 12-dimming
80	Single tube 2-pixel 12-tone dimming fine adjustment	0–255	Single tube 2-pixel 12-tone dimming fine adjustment
81	Single Tube 3-Flicker	0–19	Turn off light
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
		145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light

CH	Function	DMX value	Description
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (Fast to Slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
82	Single tube 3-Duration	0–255	Single tube 3-Duration
83	Single tube 3-pixel 1-dimming	0–255	Single tube 3-pixel 1-dimming
84	Single tube 3-pixel 1-dimming fine adjustment	0–255	Single tube 3-pixel 1-dimming fine adjustment
85	Single tube 3-pixel 2-dimming	0–255	Single tube 3-pixel 2-dimming
86	Single tube 3-pixel 2-tone dimming fine adjustment	0–255	Single tube 3-pixel 2-tone dimming fine adjustment
87	Single tube 3-pixel 3-dimming	0–255	Single tube 3-pixel 3-dimming
88	Single tube 3-pixel 3-way dimming fine adjustment	0–255	Single tube 3-pixel 3-way dimming fine adjustment
89	Single tube 3-pixel 4-dimming	0–255	Single tube 3-pixel 4-dimming
90	Single tube 3-pixel 4-tone dimming fine adjustment	0–255	Single tube 3-pixel 4-tone dimming fine adjustment
91	Single tube 3-pixel 5-dimming	0–255	Single tube 3-pixel 5-dimming
92	Single tube 3-pixel 5-dimming fine adjustment	0–255	Single tube 3-pixel 5-dimming fine adjustment
93	Single tube 3-pixel 6-dimming	0–255	Single tube 3-pixel 6-dimming
94	Single tube 3-pixel 6-dimming fine adjustment	0–255	Single tube 3-pixel 6-dimming fine adjustment
95	Single tube 3-pixel 7-dimming	0–255	Single tube 3-pixel 7-dimming
96	Single tube 3-pixel 7-tone dimming fine adjustment	0–255	Single tube 3-pixel 7-tone dimming fine adjustment
97	Single tube 3-pixel 8-way dimming	0–255	Single tube 3-pixel 8-way dimming
98	Single tube 3-pixel 8-way dimming fine adjustment	0–255	Single tube 3-pixel 8-way dimming fine adjustment
99	Single tube 3-pixel 9-dimming	0–255	Single tube 3-pixel 9-dimming
100	Single tube 3-pixel 9-dimming fine adjustment	0–255	Single tube 3-pixel 9-dimming fine adjustment
101	Single tube 3-pixel 10- dimming	0–255	Single tube 3-pixel 10-dimming
102	Single tube 3-pixel 10- dimming fine adjustment	0–255	Single tube 3-pixel 10-dimming fine adjustment
103	Single tube 3-pixel 11- dimming	0–255	Single tube 3-pixel 11-dimming
104	Single tube 3-pixel 11- dimming fine adjustment	0–255	Single tube 3-pixel 11-dimming fine adjustment

CH	Function	DMX value	Description
105	Single tube 3-pixel 12-tone dimming	0–255	Single tube 3-pixel 12-tone dimming
106	Single tube 3-pixel 12-tone dimming fine adjustment	0–255	Single tube 3-pixel 12-tone dimming fine adjustment
		0–19	Turn off light
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
107	Single Tube 4-Flicker	145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (from fast to slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
108	Single tube 4-Duration	0–255	Single tube 4-Duration
109	Single tube 4-pixel 1-dimming	0–255	Single tube 4-pixel 1-dimming
110	Single tube 4-pixel 1-dimming fine adjustment	0–255	Single tube 4-pixel 1-dimming fine adjustment
111	Single tube 4-pixel 2-tone dimming	0–255	Single tube 4-pixel 2-tone dimming
112	Single tube 4-pixel 2-tone dimming fine adjustment	0–255	Single tube 4-pixel 2-tone dimming fine adjustment
113	Single tube 4-pixel 3-way dimming	0–255	Single tube 4-pixel 3-way dimming
114	Single tube 4-pixel 3-way dimming fine adjustment	0–255	Single tube 4-pixel 3-way dimming fine adjustment
115	Single tube 4-pixel 4-dimming	0–255	Single tube 4-pixel 4-dimming

CH	Function	DMX value	Description
116	Single tube 4-pixel 4-tone dimming fine adjustment	0–255	Single tube 4-pixel 4-tone dimming fine adjustment
117	Single tube 4-pixel 5-dimming	0–255	Single tube 4-pixel 5-dimming
118	Single tube 4-pixel 5-tone dimming fine adjustment	0–255	Single tube 4-pixel 5-tone dimming fine adjustment
119	Single tube 4-pixel 6-way dimming	0–255	Single tube 4-pixel 6-way dimming
120	Single tube 4-pixel 6-tone dimming fine adjustment	0–255	Single tube 4-pixel 6-tone dimming fine adjustment
121	Single tube 4-pixel 7-dimming	0–255	Single tube 4-pixel 7-dimming
122	Single tube 4-pixel 7-tone dimming fine adjustment	0–255	Single tube 4-pixel 7-tone dimming fine adjustment
123	Single tube 4-pixel 8-way dimming	0–255	Single tube 4-pixel 8-way dimming
124	Single tube 4-pixel 8-way dimming fine adjustment	0–255	Single tube 4-pixel 8-way dimming fine adjustment
125	Single tube 4-pixel 9-dimming	0–255	Single tube 4-pixel 9-dimming
126	Single tube 4-pixel 9-DIMM fine adjustment	0–255	Single tube 4-pixel 9-DIMM fine adjustment
127	Single tube 4-pixel 10- dimming	0–255	Single tube 4-pixel 10-dimming
128	Single tube 4-pixel 10- dimming fine adjustment	0–255	Single tube 4-pixel 10-dimming fine adjustment
129	Single tube 4 pixels 11- dimming	0–255	Single tube 4 pixels 11-dimming
130	Single tube 4-pixel 11- dimming fine adjustment	0–255	Single tube 4-pixel 11-dimming fine adjustment
131	Single tube 4-pixel 12-tone dimming	0–255	Single tube 4-pixel 12-tone dimming
132	Single tube 4 pixels 12- dimming fine adjustment	0–255	Single tube 4 pixels 12-dimming fine adjustment
		0–19	Turn off light
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
133	RGB Panel 1-Blink	145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)

CH	Function	DMX value	Description
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (Fast to Slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
134	RGB Panel 1-Duration	0–255	RGB Panel 1-Duration
135	RGB Panel 1-Red 1	0–255	RGB Panel 1-Red 1
136	RGB Panel 1-Red 1 Fine Tune	0–255	RGB Panel 1-Red 1 Fine Tune
137	RGB Panel 1-Green 1	0–255	RGB Panel 1-Green 1
138	RGB Panel 1-Green 1 Fine Tune	0–255	RGB Panel 1-Green 1 Fine Tune
139	RGB Panel 1-Blue 1	0–255	RGB Panel 1-Blue 1
140	RGB Panel 1-Blue 1 Fine Tune	0–255	RGB Panel 1-Blue 1 Fine Tune
141	RGB Panel 1-Red 2	0–255	RGB Panel 1-Red 2
142	RGB Panel 1-Red 2 Fine Tune	0–255	RGB Panel 1-Red 2 Fine Tune
143	RGB Panel 1-Green 2	0–255	RGB Panel 1-Green 2
144	RGB panel 1-Green 2 fine adjustment	0–255	RGB panel 1-Green 2 fine adjustment
145	RGB Panel 1-Blue 2	0–255	RGB Panel 1-Blue 2
146	RGB Panel 1-Blue 2 Fine Tune	0–255	RGB Panel 1-Blue 2 Fine Tune
147	RGB Panel 1-Red 3	0–255	RGB Panel 1-Red 3
148	RGB Panel 1-Red 3 Fine Tune	0–255	RGB Panel 1-Red 3 Fine Tune
149	RGB Panel 1-Green 3	0–255	RGB Panel 1-Green 3
150	RGB Panel 1-Green 3 Fine Tune	0–255	RGB Panel 1-Green 3 Fine Tune
151	RGB Panel 1-Blue 3	0–255	RGB Panel 1-Blue 3
152	RGB Panel 1-Blue 3 Fine Tune	0–255	RGB Panel 1-Blue 3 Fine Tune
153	RGB Panel 1-Red 4	0–255	RGB Panel 1-Red 4
154	RGB Panel 1-Red 4 Fine Tune	0–255	RGB Panel 1-Red 4 Fine Tune
155	RGB Panel 1-Green 4	0–255	RGB Panel 1-Green 4
156	RGB Panel 1-Green 4 Fine Tune	0–255	RGB Panel 1-Green 4 Fine Tune
157	RGB Panel 1-Blue 4	0–255	RGB Panel 1-Blue 4
158	RGB Panel 1-Blue 4 Fine Tune	0–255	RGB Panel 1-Blue 4 Fine Tune
159	RGB Panel 1-Red 5	0–255	RGB Panel 1-Red 5
160	RGB Panel 1-Red 5 Fine Tune	0–255	RGB Panel 1-Red 5 Fine Tune

CH	Function	DMX value	Description
161	RGB Panel 1-Green 5	0–255	RGB Panel 1-Green 5
162	RGB Panel 1-Green 5 Fine Tune	0–255	RGB Panel 1-Green 5 Fine Tune
163	RGB Panel 1-Blue 5	0–255	RGB Panel 1-Blue 5
164	RGB Panel 1-Blue 5 Fine Tune	0–255	RGB Panel 1-Blue 5 Fine Tune
165	RGB Panel 1-Red 6	0–255	RGB Panel 1-Red 6
166	RGB Panel 1-Red 6 Fine Tune	0–255	RGB Panel 1-Red 6 Fine Tune
167	RGB Panel 1-Green 6	0–255	RGB Panel 1-Green 6
168	RGB Panel 1-Green 6 Fine Tune	0–255	RGB Panel 1-Green 6 Fine Tune
169	RGB Panel 1-Blue 6	0–255	RGB Panel 1-Blue 6
170	RGB Panel 1-Blue 6 Fine Tune	0–255	RGB Panel 1-Blue 6 Fine Tune
171	RGB Panel 2-Blink	0–19	Turn off light
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
		145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (from fast to slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
172	RGB Panel 2-Duration	0–255	RGB Panel 2-Duration
173	RGB Panel 2-Red 1	0–255	RGB Panel 2-Red 1
174	RGB Panel 2-Red 1 Fine Tune	0–255	RGB Panel 2-Red 1 Fine Tune
175	RGB Panel 2-Green 1	0–255	RGB Panel 2-Green 1

CH	Function	DMX value	Description
176	RGB Panel 2-Green 1 Fine Tune	0–255	RGB Panel 2-Green 1 Fine Tune
177	RGB Panel 2-Blue 1	0–255	RGB Panel 2-Blue 1
178	RGB Panel 2-Blue 1 Fine Tune	0–255	RGB Panel 2-Blue 1 Fine Tune
179	RGB Panel 2-Red 2	0–255	RGB Panel 2-Red 2
180	RGB Panel 2-Red 2 Fine Tune	0–255	RGB Panel 2-Red 2 Fine Tune
181	RGB Panel 2-Green 2	0–255	RGB Panel 2-Green 2
182	RGB Panel 2-Green 2 Fine Tune	0–255	RGB Panel 2-Green 2 Fine Tune
183	RGB Panel 2-Blue 2	0–255	RGB Panel 2-Blue 2
184	RGB Panel 2-Blue 2 Fine Tune	0–255	RGB Panel 2-Blue 2 Fine Tune
185	RGB Panel 2-Red 3	0–255	RGB Panel 2-Red 3
186	RGB Panel 2-Red 3 Fine Tune	0–255	RGB Panel 2-Red 3 Fine Tune
187	RGB Panel 2-Green 3	0–255	RGB Panel 2-Green 3
188	RGB Panel 2-Green 3 Fine Tune	0–255	RGB Panel 2-Green 3 Fine Tune
189	RGB Panel 2-Blue 3	0–255	RGB Panel 2-Blue 3
190	RGB Panel 2-Blue 3 Fine Tune	0–255	RGB Panel 2-Blue 3 Fine Tune
191	RGB Panel 2-Red 4	0–255	RGB Panel 2-Red 4
192	RGB Panel 2-Red 4 Fine Tune	0–255	RGB Panel 2-Red 4 Fine Tune
193	RGB Panel 2-Green 4	0–255	RGB Panel 2-Green 4
194	RGB Panel 2-Green 4 Fine Tune	0–255	RGB Panel 2-Green 4 Fine Tune
195	RGB Panel 2-Blue 4	0–255	RGB Panel 2-Blue 4
196	RGB Panel 2-Blue 4 Fine Tune	0–255	RGB Panel 2-Blue 4 Fine Tune
197	RGB Panel 2-Red 5	0–255	RGB Panel 2-Red 5
198	RGB Panel 2-Red 5 Fine Tune	0–255	RGB Panel 2-Red 5 Fine Tune
199	RGB Panel 2-Green 5	0–255	RGB Panel 2-Green 5
200	RGB Panel 2-Green 5 Fine Tune	0–255	RGB Panel 2-Green 5 Fine Tune
201	RGB Panel 2-Blue 5	0–255	RGB Panel 2-Blue 5
202	RGB Panel 2-Blue 5 Fine Tune	0–255	RGB Panel 2-Blue 5 Fine Tune
203	RGB Panel 2-Red 6	0–255	RGB Panel 2-Red 6
204	RGB Panel 2-Red 6 Fine Tune	0–255	RGB Panel 2-Red 6 Fine Tune
205	RGB Panel 2-Green 6	0–255	RGB Panel 2-Green 6
206	RGB Panel 2-Green 6 Fine Tune	0–255	RGB Panel 2-Green 6 Fine Tune
207	RGB Panel 2-Blue 6	0–255	RGB Panel 2-Blue 6
208	RGB Panel 2-Blue 6 Fine Tune	0–255	RGB Panel 2-Blue 6 Fine Tune
209	Device Settings	0–5	NF
		6–10	Show backlight (hold for 3 seconds)
		11–15	Show backlight off (hold for 3 seconds)
		16–18	NF

CH	Function	DMX value	Description
		19–23	DMX no signal black field (hold for 3 seconds)
		24–28	DMX no-signal hold (hold for 3 seconds)
		29–33	DMX no-signal emergency lighting (3 seconds)
		34–36	NF
		37–41	Linear dimming curve (hold for 1.5 seconds)
		42–46	Exponential dimming curve (hold for 1.5 seconds)
		47–51	Logarithmic dimming curve (hold for 1.5s)
		52–56	S dimming curve (hold for 1.5 seconds)
		57–61	NF
		62–66	Quick dim (hold for 1.5 seconds)
		67–71	Medium dimming (hold for 1.5 seconds)
		72–76	Slow dim (hold for 1.5 seconds)
		77–80	NF
		81–85	NF
		86–90	NF
		91–93	NF
		94–98	NF
		99–103	NF
		104–108	NF
		109–113	NF
		114–118	NF
		119–123	NF
		124–126	NF
		127–131	Fan Auto (hold for 3 seconds)
		132–136	Fan mute (hold for 3 seconds)
		137–141	Fan off (hold for 3 seconds)
		142–146	Fan maximum power (hold for 3 seconds)
		147–149	NF
		150–153	Reverse RGB panel 1 off (hold for 1.5 seconds)
		154–157	Reverse RGB panel 1 on (hold for 1.5 seconds)
		158–161	Reverse RGB panel 2 off (hold for 1.5 seconds)
		162–165	Reverse RGB panel 2 opened (hold for 1.5 seconds)
		166–169	Reverse middle white (hold 1.5 seconds)
		170–173	Reverse middle white (hold 1.5 seconds)
		174–177	Reverse single tube 1 off (hold for 1.5 seconds)
		178–181	Reverse single tube 1 on (hold for 1.5s)
		182–185	Reverse single tube 2 off (hold for 1.5 seconds)

CH	Function	DMX value	Description
		186–189	Reverse single tube 2 on (hold for 1.5 seconds)
		190–193	Reverse single tube 3 off (hold for 1.5 seconds)
		194–197	Reverse single tube 3 on (hold for 1.5 seconds)
		198–201	Reverse single tube 4 off (hold for 1.5 seconds)
		202–205	Reverse single tube 4 open (hold for 1.5 seconds)
		206–209	Disable RGB panel (hold for 1.5 seconds)
		210–213	Switch to RGB panel (hold for 1.5 seconds)
		214–217	Close the single exchange tube (hold for 1.5 seconds)
		218–221	Open the exchange single tube (hold for 1.5 seconds)
		222–224	NF
		225–234	Y-axis reset
		235–255	NF

3.7 275 Channel Mode (Mode 7)

CH	Function	DMX value	Description
1	Total dimming	0–255	Total dimming
2	Global dimming fine adjustment	0–255	Global dimming fine adjustment
3	Central tube pixel 1-dimming	0–255	Central tube pixel 1-dimming
4	Central tube pixel 1-dimming fine adjustment	0–255	Central tube pixel 1-dimming fine adjustment
5	Central tube pixel 2-dimming	0–255	Central tube pixel 2-dimming
6	Central tube pixel 2-dimming fine adjustment	0–255	Central tube pixel 2-dimming fine adjustment
7	Central tube pixel 3-dimming	0–255	Central tube pixel 3-dimming
8	Central tube pixel 3-dimming fine adjustment	0–255	Central tube pixel 3-dimming fine adjustment
9	Central tube pixel 4-dimming	0–255	Central tube pixel 4-dimming
10	Central tube pixel 4-dimming fine adjustment	0–255	Central tube pixel 4-dimming fine adjustment
11	Central tube pixel 5-dimming	0–255	Central tube pixel 5-dimming
12	Central tube pixel 5-dimming fine adjustment	0–255	Central tube pixel 5-dimming fine adjustment
13	Central tube pixel 6-dimming	0–255	Central tube pixel 6-dimming
14	Central tube pixel 6-dimming fine adjustment	0–255	Central tube pixel 6-dimming fine adjustment
15	Central tube pixel 7-dimming	0–255	Central tube pixel 7-dimming
16	Central tube pixel 7-dimming fine adjustment	0–255	Central tube pixel 7-dimming fine adjustment
17	Central tube pixel 8-dimming	0–255	Central tube pixel 8-dimming

CH	Function	DMX value	Description
18	Central tube pixel 8-dimming fine adjustment	0–255	Central tube pixel 8-dimming fine adjustment
19	Central tube pixel 9-dimming	0–255	Central tube pixel 9-dimming
20	Central tube pixel 9-dimming fine adjustment	0–255	Central tube pixel 9-dimming fine adjustment
21	Central tube pixel 10- dimming	0–255	Central tube pixel 10-dimming
22	Central tube pixel 10- dimming fine adjustment	0–255	Central tube pixel 10-dimming fine adjustment
23	Central tube pixel 11- dimming	0–255	Central tube pixel 11-dimming
24	Central tube pixel 11- dimming fine adjustment	0–255	Central tube pixel 11-dimming fine adjustment
25	Central tube pixel 12- dimming	0–255	Central tube pixel 12-dimming
26	Central tube pixel 12- dimming fine adjustment	0–255	Central tube pixel 12-dimming fine adjustment
		0–19	Turn off light
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
27	Central tube strobe	145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (Fast to Slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
28	White space duration	0–255	White space duration
29	Center effect dimming	0–255	Center effect dimming

CH	Function	DMX value	Description
		—	Based on the pipe diagram
30	Center effect selection	0–255	Center effect selection
31	Select X-bleach for the central tube	0–255	obligate
		0–5	cease
		6–124	From left to right / fast to slow
32	Center effect speed	125–130	cease
		131–249	From right to left / slow to fast
		250–255	cease
		0–5	NF
33	Center effect faded	6–255	Fade duration from short to long
34	Central tube space	0–255	obligate
35	Single tube 1 pixel 1-dimming	0–255	Single tube 1 pixel 1-dimming
36	Single tube 1 pixel 1-dimming fine adjustment	0–255	Single tube 1 pixel 1-dimming fine adjustment
37	Single tube 1 pixel 2-dimming	0–255	Single tube 1 pixel 2-dimming
38	Single tube 1 pixel 2-dimming fine adjustment	0–255	Single tube 1 pixel 2-dimming fine adjustment
39	Single tube 1 pixel 3-dimming	0–255	Single tube 1 pixel 3-dimming
40	Single tube 1 pixel 3-dimming fine adjustment	0–255	Single tube 1 pixel 3-dimming fine adjustment
41	Single tube 1 pixel 4-dimming	0–255	Single tube 1 pixel 4-dimming
42	Single-pixel 4-way dimming adjustment	0–255	Single-pixel 4-way dimming adjustment
43	Single tube 1 pixel 5-dimming	0–255	Single tube 1 pixel 5-dimming
44	Single tube 1 pixel 5-dimming fine adjustment	0–255	Single tube 1 pixel 5-dimming fine adjustment
45	Single tube 1 pixel 6-dimming	0–255	Single tube 1 pixel 6-dimming
46	Single tube 1 pixel 6-dimming fine adjustment	0–255	Single tube 1 pixel 6-dimming fine adjustment
47	Single tube 1 pixel 7-dimming	0–255	Single tube 1 pixel 7-dimming
48	Single tube 1 pixel 7-dimming fine adjustment	0–255	Single tube 1 pixel 7-dimming fine adjustment
49	Single tube 1 pixel 8-dimming	0–255	Single tube 1 pixel 8-dimming
50	Single tube 1 pixel 8-dimming fine adjustment	0–255	Single tube 1 pixel 8-dimming fine adjustment
51	Single tube 1 pixel 9-dimming	0–255	Single tube 1 pixel 9-dimming
52	Single tube 1 pixel 9-dimming fine adjustment	0–255	Single tube 1 pixel 9-dimming fine adjustment
53	Single tube 1 pixel 10- dimming	0–255	Single tube 1 pixel 10-dimming

CH	Function	DMX value	Description
54	Single tube 1 pixel 10- dimming fine adjustment	0–255	Single tube 1 pixel 10-dimming fine adjustment
55	Single tube 1 pixel 11- dimming	0–255	Single tube 1 pixel 11-dimming
56	Single tube 1 pixel 11- dimming fine adjustment	0–255	Single tube 1 pixel 11-dimming fine adjustment
57	Single tube 1 pixel 12- dimming	0–255	Single tube 1 pixel 12-dimming
58	Single tube 1 pixel 12- dimming fine adjustment	0–255	Single tube 1 pixel 12-dimming fine adjustment
59	Single Tube 1-Flash	0–19	Turn off light
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
		145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (Fast to Slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
60	Single tube 1-Duration	0–255	Single tube 1-Duration
61	Single tube 1-Effect dimming	0–255	Single tube 1-Effect dimming
62	Single Tube 1-Effect Selection	—	Based on the pipe diagram
		0–255	Single Tube 1-Effect Selection
63	Select X-bleach for single tube 1	0–255	obligate
		0–5	cease
		6–124	From left to right / fast to slow
64	Single tube 1 effect speed	125–130	cease

CH	Function	DMX value	Description
		131–249	From right to left / slow to fast
		250–255	cease
		0–5	NF
65	Single tube 1 effect faded	6–255	Fade duration from short to long
66	Single Tube 1 Mode Space	0–255	obligate
67	Single tube 2 pixels 1- dimming	0–255	Single tube 2 pixels 1-dimming
68	Single tube 2 pixels 1- dimming fine adjustment	0–255	Single tube 2 pixels 1-dimming fine adjustment
69	Single tube 2 pixels 2- dimming	0–255	Single tube 2 pixels 2-dimming
70	Single tube 2-pixel 2-tone dimming fine adjustment	0–255	Single tube 2-pixel 2-tone dimming fine adjustment
71	Single tube 2 pixels 3- dimming	0–255	Single tube 2 pixels 3-dimming
72	Single tube 2-pixel 3-dimming fine adjustment	0–255	Single tube 2-pixel 3-dimming fine adjustment
73	Single tube 2-pixel 4-dimming	0–255	Single tube 2-pixel 4-dimming
74	Single tube 2-pixel 4-tone dimming fine adjustment	0–255	Single tube 2-pixel 4-tone dimming fine adjustment
75	Single tube 2 pixels 5- dimming	0–255	Single tube 2 pixels 5-dimming
76	Single tube 2-pixel 5-dimming fine adjustment	0–255	Single tube 2-pixel 5-dimming fine adjustment
77	Single tube 2 pixels 6-dim	0–255	Single tube 2 pixels 6-dim
78	Single tube 2-pixel 6-dimming fine adjustment	0–255	Single tube 2-pixel 6-dimming fine adjustment
79	Single tube 2-pixel 7-dimming	0–255	Single tube 2-pixel 7-dimming
80	Single tube 2-pixel 7-tone dimming fine adjustment	0–255	Single tube 2-pixel 7-tone dimming fine adjustment
81	Single tube 2-pixel 8-dimming	0–255	Single tube 2-pixel 8-dimming
82	Single tube 2-pixel 8-tone dimming fine adjustment	0–255	Single tube 2-pixel 8-tone dimming fine adjustment
83	Single tube 2 pixels 9- dimming	0–255	Single tube 2 pixels 9-dimming
84	Single tube 2-pixel 9-DIMM fine adjustment	0–255	Single tube 2-pixel 9-DIMM fine adjustment
85	Single tube 2 pixels 10- dimming	0–255	Single tube 2 pixels 10-dimming
86	Single tube 2-pixel 10- dimming fine adjustment	0–255	Single tube 2-pixel 10-dimming fine adjustment
87	Single tube 2 pixels 11- dimming	0–255	Single tube 2 pixels 11-dimming
88	Single tube 2 pixels 11- dimming fine adjustment	0–255	Single tube 2 pixels 11-dimming fine adjustment
89	Single tube 2 pixels 12- dimming	0–255	Single tube 2 pixels 12-dimming
90	Single tube 2-pixel 12-tone dimming fine adjustment	0–255	Single tube 2-pixel 12-tone dimming fine adjustment
91	Single Tube 2-Flicker	0–19	Turn off light

CH	Function	DMX value	Description
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
		145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (from fast to slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
92	Single tube 2-Duration	0–255	Single tube 2-Duration
93	Single tube 2-Effect dimming	0–255	Single tube 2-Effect dimming
94	Single Tube 2-Effect Selection	—	Based on the pipe diagram
		0–255	Single Tube 2-Effect Selection
95	Single tube 2 select X-bleach	0–255	obligate
		0–5	cease
		6–124	From left to right / fast to slow
96	Single Tube 2 Effect Speed	125–130	cease
		131–249	From right to left / slow to fast
		250–255	cease
		0–5	NF
97	Single tube 2 effect fade	6–255	Fade duration from short to long
98	Single Tube 2 Mode Space	0–255	obligate
99	Single tube 3-pixel 1-dimming	0–255	Single tube 3-pixel 1-dimming
100	Single tube 3-pixel 1-dimming fine adjustment	0–255	Single tube 3-pixel 1-dimming fine adjustment

CH	Function	DMX value	Description
101	Single tube 3-pixel 2-dimming	0–255	Single tube 3-pixel 2-dimming
102	Single tube 3-pixel 2-tone dimming fine adjustment	0–255	Single tube 3-pixel 2-tone dimming fine adjustment
103	Single tube 3-pixel 3-dimming	0–255	Single tube 3-pixel 3-dimming
104	Single tube 3-pixel 3-way dimming fine adjustment	0–255	Single tube 3-pixel 3-way dimming fine adjustment
105	Single tube 3-pixel 4-dimming	0–255	Single tube 3-pixel 4-dimming
106	Single tube 3-pixel 4-tone dimming fine adjustment	0–255	Single tube 3-pixel 4-tone dimming fine adjustment
107	Single tube 3-pixel 5-dimming	0–255	Single tube 3-pixel 5-dimming
108	Single tube 3-pixel 5-dimming fine adjustment	0–255	Single tube 3-pixel 5-dimming fine adjustment
109	Single tube 3-pixel 6-dimming	0–255	Single tube 3-pixel 6-dimming
110	Single tube 3-pixel 6-dimming fine adjustment	0–255	Single tube 3-pixel 6-dimming fine adjustment
111	Single tube 3-pixel 7-dimming	0–255	Single tube 3-pixel 7-dimming
112	Single tube 3-pixel 7-tone dimming fine adjustment	0–255	Single tube 3-pixel 7-tone dimming fine adjustment
113	Single tube 3-pixel 8-way dimming	0–255	Single tube 3-pixel 8-way dimming
114	Single tube 3-pixel 8-way dimming fine adjustment	0–255	Single tube 3-pixel 8-way dimming fine adjustment
115	Single tube 3-pixel 9-dimming	0–255	Single tube 3-pixel 9-dimming
116	Single tube 3-pixel 9-dimming fine adjustment	0–255	Single tube 3-pixel 9-dimming fine adjustment
117	Single tube 3-pixel 10- dimming	0–255	Single tube 3-pixel 10-dimming
118	Single tube 3-pixel 10- dimming fine adjustment	0–255	Single tube 3-pixel 10-dimming fine adjustment
119	Single tube 3-pixel 11- dimming	0–255	Single tube 3-pixel 11-dimming
120	Single tube 3-pixel 11- dimming fine adjustment	0–255	Single tube 3-pixel 11-dimming fine adjustment
121	Single tube 3 pixels 12- dimming	0–255	Single tube 3 pixels 12-dimming
122	Single tube 3-pixel 12-tone dimming fine adjustment	0–255	Single tube 3-pixel 12-tone dimming fine adjustment
123	Single tube 3 flashes	0–19	Turn off light
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light

CH	Function	DMX value	Description
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
		145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (from fast to slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
124	Single tube 3-Duration	0–255	Single tube 3-Duration
125	Single tube 3-Effect dimming	0–255	Single tube 3-Effect dimming
126	Single Tube 3-Effect Selection	—	Based on the pipe diagram
		0–255	Single Tube 3-Effect Selection
127	Single tube 3 select X-bleach	0–255	obligate
		0–5	cease
		6–124	From left to right / fast to slow
128	Single Tube 3 Effect Speed	125–130	cease
		131–249	From right to left / slow to fast
		250–255	cease
		0–5	NF
129	Single tube 3 effect fade	6–255	Fade duration from short to long
130	Single Tube 3 Mode Space	0–255	obligate
131	Single tube 4-pixel 1-dimming	0–255	Single tube 4-pixel 1-dimming
132	Single tube 4-pixel 1-dimming fine adjustment	0–255	Single tube 4-pixel 1-dimming fine adjustment
133	Single tube 4-pixel 2-tone dimming	0–255	Single tube 4-pixel 2-tone dimming
134	Single tube 4-pixel 2-tone dimming fine adjustment	0–255	Single tube 4-pixel 2-tone dimming fine adjustment
135	Single tube 4-pixel 3-way dimming	0–255	Single tube 4-pixel 3-way dimming
136	Single tube 4-pixel 3-way dimming fine adjustment	0–255	Single tube 4-pixel 3-way dimming fine adjustment

CH	Function	DMX value	Description
137	Single tube 4-pixel 4-dimming	0–255	Single tube 4-pixel 4-dimming
138	Single tube 4-pixel 4-tone dimming fine adjustment	0–255	Single tube 4-pixel 4-tone dimming fine adjustment
139	Single tube 4-pixel 5-dimming	0–255	Single tube 4-pixel 5-dimming
140	Single tube 4-pixel 5-tone dimming fine adjustment	0–255	Single tube 4-pixel 5-tone dimming fine adjustment
141	Single tube 4-pixel 6-way dimming	0–255	Single tube 4-pixel 6-way dimming
142	Single tube 4-pixel 6-tone dimming fine adjustment	0–255	Single tube 4-pixel 6-tone dimming fine adjustment
143	Single tube 4-pixel 7-dimming	0–255	Single tube 4-pixel 7-dimming
144	Single tube 4-pixel 7-tone dimming fine adjustment	0–255	Single tube 4-pixel 7-tone dimming fine adjustment
145	Single tube 4-pixel 8-way dimming	0–255	Single tube 4-pixel 8-way dimming
146	Single tube 4-pixel 8-tone dimming fine adjustment	0–255	Single tube 4-pixel 8-tone dimming fine adjustment
147	Single tube 4-pixel 9-dimming	0–255	Single tube 4-pixel 9-dimming
148	Single tube 4-pixel 9-DIMM fine adjustment	0–255	Single tube 4-pixel 9-DIMM fine adjustment
149	Single tube 4-pixel 10- dimming	0–255	Single tube 4-pixel 10-dimming
150	Single tube 4-pixel 10- dimming fine adjustment	0–255	Single tube 4-pixel 10-dimming fine adjustment
151	Single tube 4 pixels 11- dimming	0–255	Single tube 4 pixels 11-dimming
152	Single tube 4-pixel 11-tone dimming fine adjustment	0–255	Single tube 4-pixel 11-tone dimming fine adjustment
153	Single tube 4-pixel 12-tone dimming	0–255	Single tube 4-pixel 12-tone dimming
154	Single tube 4-pixel 12-tone dimming fine adjustment	0–255	Single tube 4-pixel 12-tone dimming fine adjustment
155	Single tube four flashes	0–19	Turn off light
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
		145–149	opening the light

CH	Function	DMX value	Description
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (Fast to Slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
156	Single tube 4-Duration	0–255	Single tube 4-Duration
157	Single tube 4-Effect dimming	0–255	Single tube 4-Effect dimming
158	Single Tube 4-Effect Selection	—	Based on the pipe diagram
		0–255	Single Tube 4-Effect Selection
159	Single tube 4 select X-bleach	0–255	obligate
		0–5	cease
		6–124	From left to right / fast to slow
160	Single tube 4 effect speed	125–130	cease
		131–249	From right to left / slow to fast
		250–255	cease
		0–5	NF
161	Single tube 4 effect fade	6–255	Fade duration from short to long
162	Single Tube 4 Mode Space	0–255	obligate
163	Single tube group (1-4) dimming	0–255	Single tube group (1-4) dimming
164	Single tube group (1-4) effect selection	—	Based on the pipe diagram
		0–255	Single tube group (1-4) effect selection
165	Change X fade for single tube group (1-4)	0–255	obligate
		0–5	cease
		6–124	From left to right / fast to slow
166	Single tube group (1-4) effect speed	125–130	cease
		131–249	From right to left / slow to fast
		250–255	cease
167	Single tube group (1-4) effect faded	0–5	NF
		6–255	Fade duration from short to long

CH	Function	DMX value	Description
168	Single Tube Group (1-4) Mode Space	0–255	obligate
		0–19	Turn off light
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
169	RGB Panel 1-Blink	145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (Fast to Slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
170	RGB Panel 1-Duration	0–255	RGB Panel 1-Duration
171	RGB Panel 1-Effect Dim	0–255	RGB Panel 1-Effect Dim
		—	Based on the RGB panel mode diagram
172	RGB Panel 1-Effect Selection	0–255	RGB Panel 1-Effect Selection
173	RGB Panel 1-Pattern Selection X-Bleach	0–255	obligate
		0–5	cease
		6–124	From left to right / fast to slow
174	RGB Panel 1-Effect Speed	125–130	cease
		131–249	From right to left / slow to fast
		250–255	cease
175	RGB Panel 1-Fade Effect	0–5	NF
		6–255	Fade duration from short to long

CH	Function	DMX value	Description
176	RGB Panel 1-Pattern Space	0–255	obligate
177	RGB Panel 1-Red Effect	0–255	RGB Panel 1-Red Effect
178	RGB Panel 1-Green Effect	0–255	RGB Panel 1-Green Effect
179	RGB Panel 1-Blue Effect	0–255	RGB Panel 1-Blue Effect
		—	Based on CTC images
		0–4	7000K
		5–226	2000K-6500 K linear, 20-21 K steps
180	RGB Panel 1-CTC	182–182	5600K
		183–226	6500K
		227–255	6621K-10.000 K-line with a step size of 120-121K (see CTC table for details)
181	RGB Panel 1-Red 1	0–255	RGB Panel 1-Red 1
182	RGB Panel 1-Red 1 Fine Tune	0–255	RGB Panel 1-Red 1 Fine Tune
183	RGB Panel 1-Green 1	0–255	RGB Panel 1-Green 1
184	RGB Panel 1-Green 1 Fine Tune	0–255	RGB Panel 1-Green 1 Fine Tune
185	RGB Panel 1-Blue 1	0–255	RGB Panel 1-Blue 1
186	RGB Panel 1-Blue 1 Fine Tune	0–255	RGB Panel 1-Blue 1 Fine Tune
187	RGB Panel 1-Red 2	0–255	RGB Panel 1-Red 2
188	RGB Panel 1-Red 2 Fine Tune	0–255	RGB Panel 1-Red 2 Fine Tune
189	RGB Panel 1-Green 2	0–255	RGB Panel 1-Green 2
190	RGB panel 1-Green 2 fine adjustment	0–255	RGB panel 1-Green 2 fine adjustment
191	RGB Panel 1-Blue 2	0–255	RGB Panel 1-Blue 2
192	RGB Panel 1-Blue 2 Fine Tune	0–255	RGB Panel 1-Blue 2 Fine Tune
193	RGB Panel 1-Red 3	0–255	RGB Panel 1-Red 3
194	RGB Panel 1-Red 3 Fine Tune	0–255	RGB Panel 1-Red 3 Fine Tune
195	RGB Panel 1-Green 3	0–255	RGB Panel 1-Green 3
196	RGB Panel 1-Green 3 Fine Tune	0–255	RGB Panel 1-Green 3 Fine Tune
197	RGB Panel 1-Blue 3	0–255	RGB Panel 1-Blue 3
198	RGB Panel 1-Blue 3 Fine Tune	0–255	RGB Panel 1-Blue 3 Fine Tune
199	RGB Panel 1-Red 4	0–255	RGB Panel 1-Red 4
200	RGB Panel 1-Red 4 Fine Tune	0–255	RGB Panel 1-Red 4 Fine Tune
201	RGB Panel 1-Green 4	0–255	RGB Panel 1-Green 4
202	RGB Panel 1-Green 4 Fine Tune	0–255	RGB Panel 1-Green 4 Fine Tune
203	RGB Panel 1-Blue 4	0–255	RGB Panel 1-Blue 4
204	RGB Panel 1-Blue 4 Fine Tune	0–255	RGB Panel 1-Blue 4 Fine Tune
205	RGB Panel 1-Red 5	0–255	RGB Panel 1-Red 5
206	RGB Panel 1-Red 5 Fine Tune	0–255	RGB Panel 1-Red 5 Fine Tune

CH	Function	DMX value	Description
207	RGB Panel 1-Green 5	0–255	RGB Panel 1-Green 5
208	RGB Panel 1-Green 5 Fine Tune	0–255	RGB Panel 1-Green 5 Fine Tune
209	RGB Panel 1-Blue 5	0–255	RGB Panel 1-Blue 5
210	RGB Panel 1-Blue 5 Fine Tune	0–255	RGB Panel 1-Blue 5 Fine Tune
211	RGB Panel 1-Red 6	0–255	RGB Panel 1-Red 6
212	RGB Panel 1-Red 6 Fine Tune	0–255	RGB Panel 1-Red 6 Fine Tune
213	RGB Panel 1-Green 6	0–255	RGB Panel 1-Green 6
214	RGB Panel 1-Green 6 Fine Tune	0–255	RGB Panel 1-Green 6 Fine Tune
215	RGB Panel 1-Blue 6	0–255	RGB Panel 1-Blue 6
216	RGB Panel 1-Blue 6 Fine Tune	0–255	RGB Panel 1-Blue 6 Fine Tune
217	RGB Panel 2-Blink	0–19	Turn off light
		20–24	opening the light
		25–64	Flash Mode 1 (Fast to Slow)
		65–69	opening the light
		70–84	Flash Mode 2: Slow on, fast off (from fast to slow)
		85–89	opening the light
		90–104	Flash Mode 3: Fast on, slow off (from fast to slow)
		105–109	opening the light
		110–124	Strobe Mode 4: Random Strobe (Fast to Slow)
		125–129	opening the light
		130–144	Flash Mode 5: Random slow-on, fast-off (from fast to slow)
		145–149	opening the light
		150–164	Flash Mode 6: Random fast on, slow off (from fast to slow)
		165–169	opening the light
		170–184	Shutter mode 7: Flash (fast to slow)
		185–189	opening the light
		190–204	Strobe Mode 8: Random Flash (Fast to Slow)
		205–209	opening the light
		210–224	Flash Mode 9: Slow On/Off (Fast to Slow)
		225–229	opening the light
		230–244	Shutter mode 10: Flash (fast to slow)
		245–255	opening the light
		—	Only affects Flash Mode 1 (025-064)
218	RGB Panel 2-Duration	0–255	RGB Panel 2-Duration
219	RGB Panel 2-Effect Dim	0–255	RGB Panel 2-Effect Dim
		—	From the RGB panel mode diagram
220	RGB Panel 2-Effect Selection	0–255	RGB Panel 2-Effect Selection

CH	Function	DMX value	Description
221	RGB Panel 2-Pattern Selection X-Light	0–255	obligate
		0–5	cease
		6–124	From left to right / fast to slow
222	RGB Panel 2-Effect Speed	125–130	cease
		131–249	From right to left / slow to fast
		250–255	cease
		0–5	NF
223	RGB Panel 2-Fade Effect	6–255	Fade duration from short to long
224	RGB Panel 2-Mode Space	0–255	obligate
225	RGB Panel 2-Red Effect	0–255	RGB Panel 2-Red Effect
226	RGB Panel 2-Green Effect	0–255	RGB Panel 2-Green Effect
227	RGB Panel 2-Blue Effect	0–255	RGB Panel 2-Blue Effect
		—	Based on CTC images
		0–4	7000K
		5–226	2000K-6500 K linear, 20-21 K steps (see CTC table for details)
228	RGB Panel 2-CTC	182–182	5600K
		226–226	6500K
		227–255	6621K-10.000 K-line with a step size of 120-121K (see CTC table for details)
229	RGB Panel 2-Red 1	0–255	RGB Panel 2-Red 1
230	RGB Panel 2-Red 1 Fine Tune	0–255	RGB Panel 2-Red 1 Fine Tune
231	RGB Panel 2-Green 1	0–255	RGB Panel 2-Green 1
232	RGB Panel 2-Green 1 Fine Tune	0–255	RGB Panel 2-Green 1 Fine Tune
233	RGB Panel 2-Blue 1	0–255	RGB Panel 2-Blue 1
234	RGB Panel 2-Blue 1 Fine Tune	0–255	RGB Panel 2-Blue 1 Fine Tune
235	RGB Panel 2-Red 2	0–255	RGB Panel 2-Red 2
236	RGB Panel 2-Red 2 Fine Tune	0–255	RGB Panel 2-Red 2 Fine Tune
237	RGB Panel 2-Green 2	0–255	RGB Panel 2-Green 2
238	RGB Panel 2-Green 2 Fine Tune	0–255	RGB Panel 2-Green 2 Fine Tune
239	RGB Panel 2-Blue 2	0–255	RGB Panel 2-Blue 2
240	RGB Panel 2-Blue 2 Fine Tune	0–255	RGB Panel 2-Blue 2 Fine Tune
241	RGB Panel 2-Red 3	0–255	RGB Panel 2-Red 3
242	RGB Panel 2-Red 3 Fine Tune	0–255	RGB Panel 2-Red 3 Fine Tune
243	RGB Panel 2-Green 3	0–255	RGB Panel 2-Green 3
244	RGB Panel 2-Green 3 Fine Tune	0–255	RGB Panel 2-Green 3 Fine Tune
245	RGB Panel 2-Blue 3	0–255	RGB Panel 2-Blue 3
246	RGB Panel 2-Blue 3 Fine Tune	0–255	RGB Panel 2-Blue 3 Fine Tune

CH	Function	DMX value	Description
247	RGB Panel 2-Red 4	0–255	RGB Panel 2-Red 4
248	RGB Panel 2-Red 4 Fine-Tune	0–255	RGB Panel 2-Red 4 Fine-Tune
249	RGB Panel 2-Green 4	0–255	RGB Panel 2-Green 4
250	RGB Panel 2-Green 4 Fine Tune	0–255	RGB Panel 2-Green 4 Fine Tune
251	RGB Panel 2-Blue 4	0–255	RGB Panel 2-Blue 4
252	RGB Panel 2-Blue 4 Fine Tune	0–255	RGB Panel 2-Blue 4 Fine Tune
253	RGB Panel 2-Red 5	0–255	RGB Panel 2-Red 5
254	RGB Panel 2-Red 5 Fine Tune	0–255	RGB Panel 2-Red 5 Fine Tune
255	RGB Panel 2-Green 5	0–255	RGB Panel 2-Green 5
256	RGB Panel 2-Green 5 Fine Tune	0–255	RGB Panel 2-Green 5 Fine Tune
257	RGB Panel 2-Blue 5	0–255	RGB Panel 2-Blue 5
258	RGB Panel 2-Blue 5 Fine Tune	0–255	RGB Panel 2-Blue 5 Fine Tune
259	RGB Panel 2-Red 6	0–255	RGB Panel 2-Red 6
260	RGB Panel 2-Red 6 Fine Tune	0–255	RGB Panel 2-Red 6 Fine Tune
261	RGB Panel 2-Green 6	0–255	RGB Panel 2-Green 6
262	RGB Panel 2-Green 6 Fine Tune	0–255	RGB Panel 2-Green 6 Fine Tune
263	RGB Panel 2-Blue 6	0–255	RGB Panel 2-Blue 6
264	RGB Panel 2-Blue 6 Fine Tune	0–255	RGB Panel 2-Blue 6 Fine Tune
265	RGB panel (1+2) effect dimming	0–255	RGB panel (1+2) effect dimming
266	RGB panel (1+2) effect selection	—	RGB panel mode diagram
		0–255	RGB panel (1+2) effect selection
267	RGB panel (1+2) select X-in	0–255	obligate
		0–5	cease
		6–124	From left to right / fast to slow
268	RGB panel (1+2) effect speed	125–130	cease
		131–249	From right to left / slow to fast
		250–255	cease
		0–5	NF
269	RGB panel (1+2) effect fade	6–255	Fade duration from short to long
270	RGB panel (1+2) mode space	0–255	obligate
271	RGB panel (1+2) effect red	0–255	RGB panel (1+2) effect red
272	RGB panel (1+2) effect green	0–255	RGB panel (1+2) effect green
273	RGB panel (1+2) effect blue	0–255	RGB panel (1+2) effect blue
		—	Based on CTC images
		0–4	7000K
		5–226	The K-line shows a linear distribution from 2000K to 6500K, with a step
274	RGB Panel (1+2) CTC	182–182	size of 20-21K (see CTC chart for details). 5600K

CH	Function	DMX value	Description
		226–226	6500K
		227–255	6621K-10.000 K-line at the 120-121K level (see detailed CTC chart)
275	Device Settings	0–5	NF
		6–10	Show backlight (hold for 3 seconds)
		11–15	Show backlight off (hold for 3 seconds)
		16–18	NF
		19–23	DMX no signal black field (hold for 3 seconds)
		24–28	DMX no signal hold (hold for 3 seconds)
		29–33	DMX no-signal emergency lighting (3 seconds)
		34–36	NF
		37–41	Linear dimming curve (hold for 1.5 seconds)
		42–46	Exponential dimming curve (hold for 1.5 seconds)
		47–51	Logarithmic dimming curve (hold for 1.5s)
		52–56	S dimming curve (hold for 1.5 seconds)
		57–61	NF
		62–66	Quick dim (hold for 1.5 seconds)
		67–71	Medium dimming (hold for 1.5 seconds)
		72–76	Slow dim (hold for 1.5 seconds)
		77–80	NF
		81–85	NF
		86–90	NF
		91–93	NF
		94–98	NF
		99–103	NF
		104–108	NF
		109–113	NF
		114–118	NF
		119–123	NF
		124–126	NF
		127–131	Fan Auto (hold for 3 seconds)
		132–136	Fan mute (hold for 3 seconds)
		137–141	Fan off (hold for 3 seconds)
		142–146	Fan maximum power (hold for 3 seconds)
		147–149	NF
		150–153	Reverse RGB panel 1 off (hold for 1.5 seconds)
		154–157	Reverse RGB panel 1 on (hold for 1.5 seconds)
		158–161	Reverse RGB panel 2 off (hold for 1.5 seconds)

CH	Function	DMX value	Description
		162–165	Reverse RGB panel 2 opened (hold for 1.5 seconds)
		166–169	Reverse middle white (hold 1.5 seconds)
		170–173	Reverse middle white (hold 1.5 seconds)
		174–177	Reverse single tube 1 off (hold for 1.5 seconds)
		178–181	Reverse single tube 1 on (hold for 1.5s)
		182–185	Reverse single tube 2 off (hold for 1.5 seconds)
		186–189	Reverse single tube 2 on (hold for 1.5 seconds)
		190–193	Reverse single tube 3 off (hold for 1.5 seconds)
		194–197	Reverse single tube 3 on (hold for 1.5 seconds)
		198–201	Reverse single tube 4 off (hold for 1.5 seconds)
		202–205	Reverse single tube 4 open (hold for 1.5 seconds)
		206–209	Disable RGB panel (hold for 1.5 seconds)
		210–213	Switch to RGB panel (hold for 1.5 seconds)
		214–217	Close the exchange single tube (hold for 1.5 seconds)
		218–221	Open the exchange single tube (hold for 1.5 seconds)
		222–224	NF
		225–234	Reset Y-axis
		235–255	NF
		235–255	NF

3.8 Technical parameters

Item	Specification
Input power supply	AC 100–240 V ~, 50/60 Hz
Total power	700 W
Main light	1080 pcs 1 W 3535 white LED beads
Auxiliary lighting	600 pcs 0.5 W 5050 RGB LED beads
Dimming / strobe effect	0–100% smooth dimming; powerful, high-output strobe effect
Channel modes	15 / 39 / 71 / 112 / 178 / 209 / 275 CH
Display and control	1.3 inch OLED display, able to query lamp information
Control protocols	DMX512, RDM, Art-Net, sACN
Software upgrade	Upgrade the software via DMX connection
Signal input / output	Five-core waterproof connector (three-core optional)
Network	RJ45 interface
Power connection	Waterproof power connector, input and output
Main features	Outstanding colour mixing effect
Waterproof rating	IP65

4 Common faults and usage precautions

4 Common faults and usage precautions

4.1 Common fault handling

The fixture contains a microcomputer circuit board, a high-voltage power supply and other professional components. Non-professionals must not dismantle the lamp or its accessories without authorisation.

Fault	Possible cause	Treatment
1. The bulb does not light (except for LED light source)	The bulb is not completely cooled, or it has reached the end of its life	Let the lamp body cool for more than 10 minutes, then restart the power supply. Check whether the bulb has reached its service life and replace it. Check whether the bulb and the ignition circuit are leaking, falling off or in poor contact. Replace the bulb if needed.
2. The beam appears dim	Long use of the bulb, or a dirty optical path	Check whether the bulb has reached its service life and replace it. Check the optical parts and bulbs for dust, and clean and maintain the bulbs and other parts regularly.
3. Pattern projection is blurred	Electronic focus value not suitable for the projection distance	Check that the value of the electronic focus channel is appropriate for the current projection distance.
4. The lights work intermittently	Internal lines have entered protection mode	Check whether the fan is running normally or is dirty, which can raise the internal temperature. Check that the internal temperature control switch is closed. Check whether the bulb has reached its service life and replace it.
5. The lamp is not controlled by the console after normal reset	Signal line fault, or lamp parameter setting not normal	Check the start address and the DMX signal lines (signal cable intact, connector not loose). Add a signal amplifier or a 120 Ω terminal resistor if needed.
6. The lamp does not start	Poor power line	Check whether the fuse on the power input socket is blown and replace it. If the lamp was subjected to vibration during long-distance transport, check the contacts of the line. Check the input power supply, computer board and other plug-in devices.

4.2 Usage precautions

- Check that the local power supply meets the rated voltage of the product, and that the leakage protector and overcurrent protector meet the load requirements.
- Do not use power lines with damaged insulation, and do not connect power lines to other wires.
- The lamp uses strong-wind refrigeration, which easily accumulates dust. Clean it once a month, especially the heat dissipation air outlet, otherwise heat dissipation will be poor and the lamp may run abnormally.
- When installing lamps, tighten the fixing screws, add a safety cable and check it regularly.
- Keep any point on the surface of the lamp at least 10 m from inflammable and explosive objects, and 2.5 m from the irradiated object. Do not install the lamp directly on the surface of combustible materials.
- The recommended continuous working time is no more than 10 hours. The interval between continuous starts should be at least 10 minutes, otherwise the lamp may not trigger normally because of the overheating protection of the bulb.
- The closing time of the switch valve should not exceed 5 minutes. If the light must be closed for a long time, turn the lamp off with the control panel (lamp control channel).

- To make multiple lamps comply better with the scene effect, start the next scene action without leaving the current scene for more than 3 minutes, so that multiple lamps can run synchronously.
- If the lamp is abnormal during use, stop it in time to prevent other faults.

4.3 RDM usage precautions

RDM is an extended version of the DMX512-A protocol, the Remote Device Management protocol. Traditional DMX512 is unidirectional, based on the RS-485 bus, so only one port may output at any time. When using RDM, note the following points.

- Use a console or host device that supports the RDM protocol.
- Do not use a unidirectional signal amplifier with RDM, because RDM requires feedback data and a unidirectional amplifier blocks the return data, which prevents lamp search. Use a bidirectional signal amplifier instead.
- All lamps must be set to DMX mode so that only one host is on the signal line.
- A 120 Ω matching resistor must be inserted between terminals 2 and 3 of the terminal plug. On long signal lines, differential signals are more stable and reduce signal reflection.
- If the lamp receives DMX control but cannot be found by RDM search, check the signal amplifier first, then check whether pins 2 or 3 of the signal line are in poor contact.