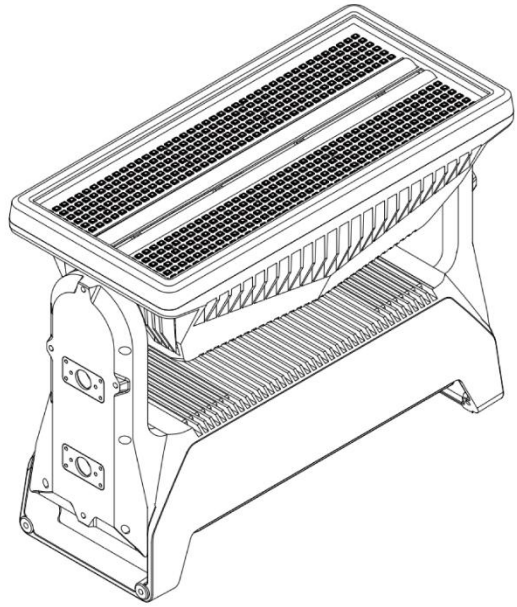
NWITC®

BLUE SEA LIGHTING

LED Strobe Wash Outdoor Moving Light



This product manual contains important information about the safe installation and use of this projector. Please read and follow these instructions carefully and keep this manual in a safe place for future reference.

User manual Version: V2.0

Please read the instructions carefully before use

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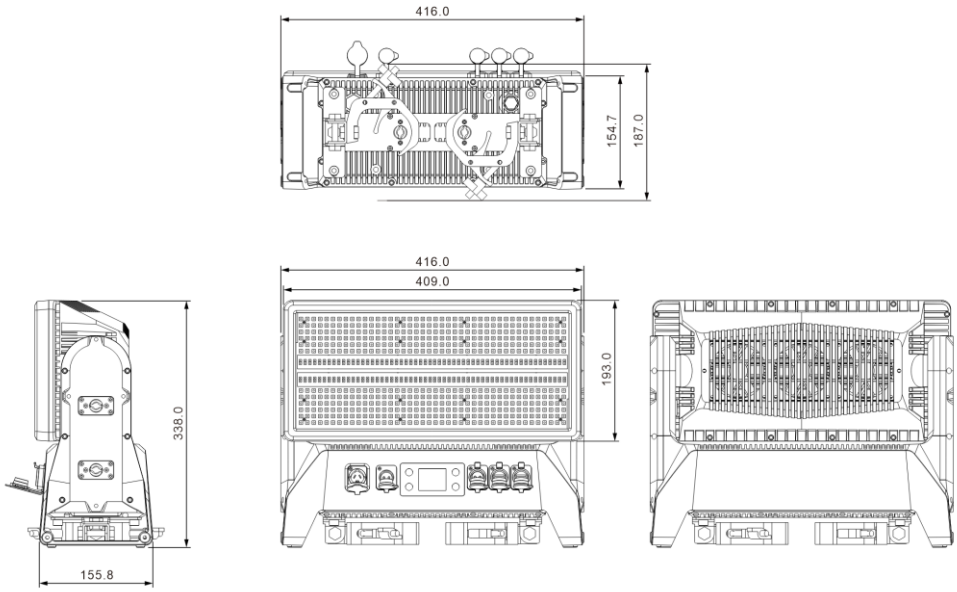
STATEMENT

The product has well capability and intact packing when leave factory. All of the user should comply with warning item and manual, any misuse cause of the damages are not included in our guarantee, and also can not be responsible for any malfunction & problem owing to ignore the manual.

1. Dimension



2. Safety Information

WARNING! Read the safety precautions in this section before unpacking, installing, powering or operating this product.

This luminaries are multi-environmental fixtures with an IP-rating of 65, intended for professional use only. They are not suitable for household use.

Review the following safety precautions carefully before installing or operating the fixture. This fixture must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the fixture and the hazards involved.

Preventing electric shock

WARNING! Risk of electric shock.

- Always power off/unplug the fixture before removing any covers.
- Ensure that the power is turned off when connecting the fixture to the AC mains supply.
- Ensure that the fixture is electrically connected to earth (ground).
- Do not apply power if the fixture is in any way damaged.
- Do not immerse the fixture in water or liquid.

Preventing burns and fire

WARNING! Take measures to prevent burns and fire.

- Install in a location that prevents accidental contact with the fixture.
- Install only in a well-ventilated space.
- Install at least 0.3 m (12 in.) away from objects to be illuminated.
- Install only in accordance with applicable building codes.
- Ensure a minimum clearance of 0.1 m (4 in.) around the cooling fans.
- Do not paint, cover or modify the fixture.
- Keep all flammable materials away from the fixture.
- Allow the fixture to cool for 15 minutes after operation, before touching it.
- CAUTION: Exterior surface temperature after 5 min. operation = 45 °C (113 °F). Steady state = 60 °C (140 °F).

Avoid personal injury

WARNING! Take measure to prevent personal injury.

- Do not look directly at the light source from close range.
- Take precautions to prevent injury due to falls when working at height.
- For permanent installation, ensure that the fixture is securely fastened to a load-bearing surface with suitable corrosion-resistant hardware.
- For temporary installation with clamps, ensure that the quarter-turn fasteners are turned fully and secured with a suitable safety cable. The cable must be approved for a safe working load (SWL) of 10 times the weight of the fixture, and it must have a minimum gauge of 3 mm.

3. Preparing for installation

Unpack the fixture and inspect it to ensure that it has not been damaged during transport.

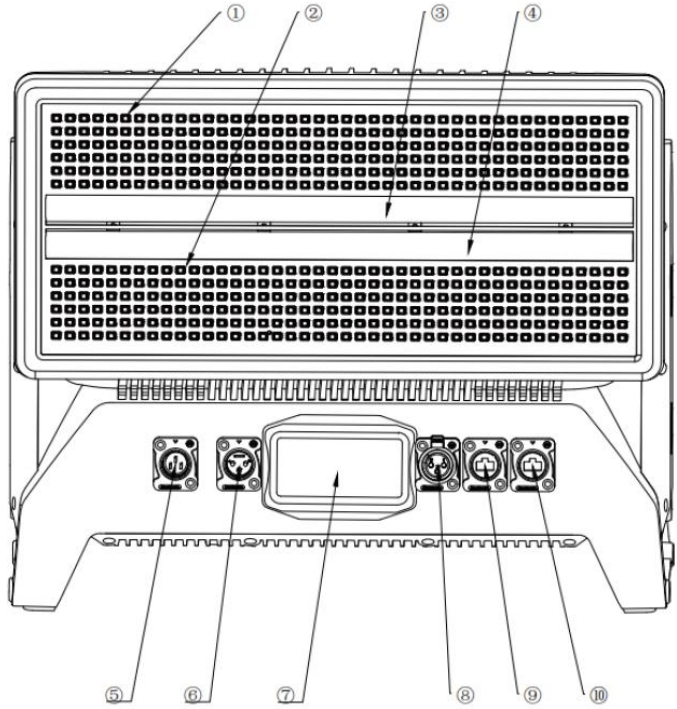
The fixture is shipped with two quarter-turn brackets, that can be used to mount the fixture at elevation.
The fixture is IP65-rated, and is designed for use in wet locations. This means that it is protected from:

- Dust, to the degree that dust cannot enter the fixture in sufficient quantities as to interfere with its operation.
- Lower pressure jets of water from any direction.

When selecting a location for the fixture, ensure that:

- It is situated away from public thoroughfares and protected from contact with people.
- It is not immersed in water or exposed to high-pressure water jets.
- It has adequate ventilation.

4. Parts identification and terminology



① RGB Plate 1

② RGB Plate 2

③ Beam 1

④ Beam 2

⑤ SEETRONIC True1 Power In

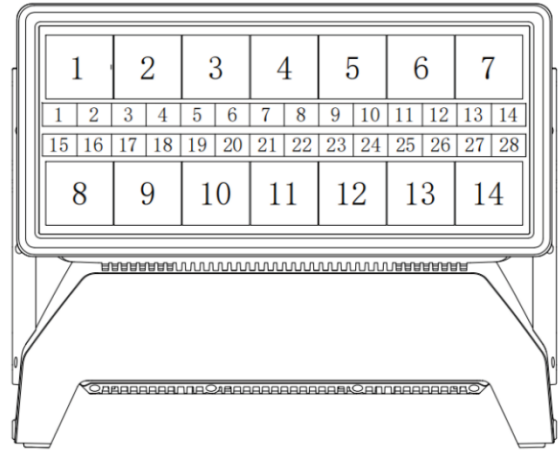
⑥ SEETRONIC DMX In

⑦ LCD Touch Screen

⑧ SEETRONIC DMX Out

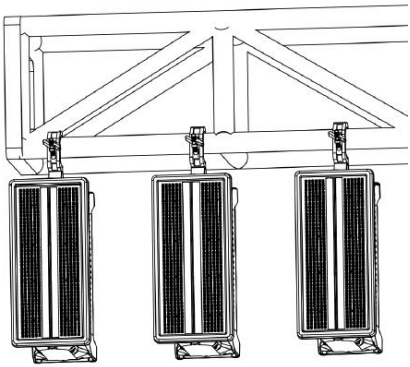
⑨ Art-Net RJ45 A

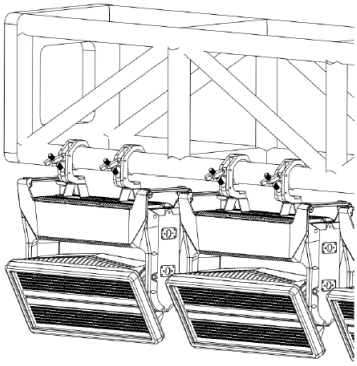
⑩ Art-Net RJ45 B



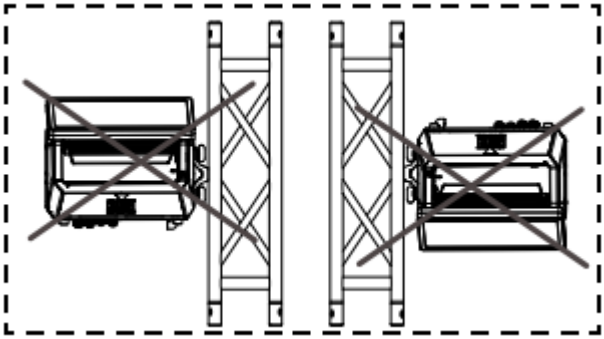
5. Installation

The fixture may be installed in any orientation, but if installed horizontally with a downward beam-angle, water can potentially pool in the fan wells. Under normal operation the moisture will evaporate. However, in locations with high rainfall, you may wish to fabricate a rain shield above the fixture, or modify the position and orientation of the fixture to minimize pooling.





Two quarter-turn brackets are supplied with the fixture if it is to be flown above the ground. Rig the fixture to a support truss or structure using the supplied brackets and suitable clamps.



Fasten a safety cable (not shown) between the support structure and the attachment point on the fixture. The safety cable must be able to bear at least 10 times the weight of the fixture.

6. Connecting AC Power

The fixture can operate on any 100–240 V,
50/60 Hz AC mains power supply. It draws approximately 2 amps at full power. For permanent installation, have a qualified electrician wire the mains cable directly to a suitable branch circuit.
The junction's ingress protection (IP) rating must be suitable for the location. For temporary installation, the mains cable may be fitted with a grounded connector intended for exterior use.

When installing standard type C circuit breakers there will be no limitations due to the fixture in-rush current. Due to the nominal current of the fixture, ensure that no more than:

4 fixtures are connected through the same type C, 10A circuit breaker.
7 fixtures are connected through the same type C, 16A circuit breaker.
The fixture must be grounded/earthed and be able to be isolated from AC power. The AC power supply must incorporate a fuse or circuit breaker for fault protection.

After connecting the fixture to power, run the on-board test, using the "Fixture Text" menu, to ensure that the fixture and each LED are functioning correctly. See "Control menu" on page 13.

CAUTION: Do not open the fixture to replace the supplied power cable, or connect the fixture to an electrical dimmer system, as this can damage it.

7. Configuring the fixture

Set up the fixture using the control panel and LCD display at the arm side of the fixture.
Navigate the menus and options using the arrow buttons and select items using the Enter button. The options available are listed in "Control menu" on page 13. After powering on, the display shows the currently selected operating mode and other information.

The fixture is set by default to be controlled in DMX mode.

Master/Slave configuration
You can set a fixture to operate as master fixture to another fixture (which then becomes a slave fixture), or an entire group of fixtures (which then becomes slave fixtures). The assigned slave fixture(s) will mimic the settings of the master fixture. Use the "Auto Program -> Auto Color / Auto Fade" menu to set your fixture as master fixture, then other fixtures set to DMX mode as slave fixture.

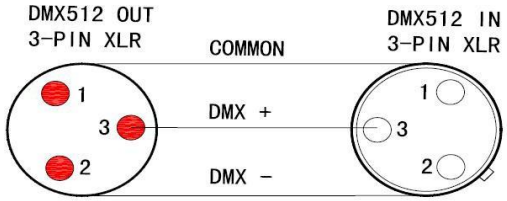
Setting a static color manually
The fixture can be configured to display a predefined and static color using the "Manual Color" (see "Control menu" on page 13).
It may suit your needs when you without a DMX controller to do the color mixing.

Using stand-alone operation
Stand-alone operation is where the fixture is not connected to a control device, but is preprogrammed with 2 modes (Auto Color, Auto Fade), that play continuously in a loop, the run speed of "Auto Color", "Auto Fade" are adjustable.
To define a stand-alone program, use the "Auto Program" menus (see "Control menu" on page 13).

8. Connecting to a DMX control device

The fixture is controllable using a DMX control device and it can be connected using a DMX cable.
If using a cabled DMX system, connect the DMX in cable (with male 3-pin XLR plug) and out cable (with female 3-pin XLR plug) to the DMX data link.
Terminate the DMX out cable of the last fixture in the data link. For outdoor installations, use only IP-rated XLR connectors suitable for outdoor use.

The DMX512 is widely used in intelligent lighting control, with a DMX 512 controller. connect several lights together, DMX in and DMX out, 3 pin XLR connectors: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)



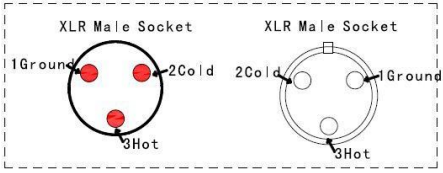


Figure2

XLR Pin Configuration
pin1=Ground
pin2=Data Compliment(negative)
pin3=Data true(positive)

9. Configuring the fixture for DMX control

About DMX

The fixture can be controlled using signals sent by a DMX controller on a number of channels (which varies depending on the DMX mode that has been set).

The first channel used to receive data from a DMX control device is known as the DMX start address. Each fixture must have a DMX start address set. For example, if a fixture has a DMX address of 10 and it is in 4-channel DMX mode, then it uses channels 10, 11,12 and 13. The following fixture in the DMX chain could then be set to a DMX address of 14. If two or more DMX fixtures of the same type have the same DMX address, then they will mimic each other's behaviour. Incorrect settings will result in unpredictable responses to the lighting controller.

Setting the DMX address

The DMX address can be seen on the main screen. To change the address setting, press the up arrow to increase the address, or the down arrow to decrease the setting. When the desired address is displayed, press Enter to save the setting.

Note that channel spacing is determined by the DMX mode.

See the "DMX protocols" on page 11 for specific DMX control values.

Setting the DMX mode

Using the "DMX Channel Mode" menu available from the control panel, specify the DMX mode that provides the fixture controls that you require, confirm chosen mode by pressing 'Enter'.

10. Cleaning

To maintain optimal performance, regular cleaning is essential. Cleaning schedules will vary depending on the operating environment, and the installation should therefore be checked at frequent intervals within the first few weeks of operation to see whether cleaning is necessary. This procedure will allow you to assess cleaning requirements in your par- ticular situation. Clean the fixture using a soft cloth dampened with a solution of water and a mild detergent. Do not use products that contain solvents, abrasives or caustic agents for cleaning, as they can cause damage to both hardware, cables and connectors.

11. DMX protocols

Configuring DMX is described "Setting the DMX mode" on page 10.

8 Channel mode

Channel	Name	DMX Value	Description
1	Tilt	0-255	Tilt Movement
2	Dimmer	0-255	Main Dimmer
3	Beam White	0-255	Beam White Dimmer
4	Plate Red	0-255	Plate Red Dimmer
5	Plate Green	0-255	Plate Green Dimmer
6	Plate Blue	0-255	Plate Blue Dimmer
7	Beam Strobe	0-255	Strobe from slow to fast
8	Plate Strobe	0-255	Strobe from slow to fast

18 Channel mode

Channel	Name	DMX Value	Description
1	Tilt	0-255	Tilt Movement
2	Dimmer	0-255	Main Dimmer
3	Beam Dimmer	0-255	Beam White Dimmer
4	Beam Strobe Mode	0-10	Closed
		11-36	Open
		37-40	Ramp Up
		41-44	Ramp Up, Random
		45-48	Ramp Down
		49-52	Ramp Down, Random
		53-56	Ramp Up And Down
		57-60	Ramp Up And Down, Random
		61-64	Random
		65-68	Random Single Pixel
		69-72	Random Times
		73-76	Strobe
		252-255	Open
5	Beam Strobe Rate	0-255	Speed From Slow To Fast
6	Beam Macro	0-255	Beam Macro
7	Beam Macro Speed	0-255	Speed From Slow To Fast
8	Plate Dimmer	0-255	Plate RGB Dimmer
9	Plate Red	0-255	Plate Red Dimmer
10	Plate Green	0-255	Plate Green Dimmer
11	Plate Blue	0-255	Plate Blue Dimmer
12	Plate Strobe Mode	0-10	Closed
		11-36	Open
		37-40	Ramp Up
		41-44	Ramp Up, Random
		45-48	Ramp Down

		49-52	Ramp Down, Random
		53-56	Ramp Up And Down
		57-60	Ramp Up And Down, Random
		61-64	Random
		65-68	Random Single Pixel
		69-72	Random Times
		73-76	Strobe
		252-255	Open
13	Plate Strobe Rate	0-255	Speed From Slow To Fast
14	Plate Macro	0-255	RGB Plate Macro
15	Plate Macro Speed	0-255	Speed From Slow To Fast
16	Plate Macro Colors	0-10	Closed
		11-250	Presets Colors
		251-255	Full RGB
17	Plate Macro Duration	0-255	Duration
18	Control	0-70	No Function
		71-75	Plate 1 Invert Off
		76-80	Plate 1 Invert On
		81-85	Plate 2 Invert Off
		86-90	Plate 2 Invert On
		91-95	Beam 1 Invert Off
		96-100	Beam 1 Invert On
		101-105	Beam 2 Invert Off
		106-110	Beam 2 Invert On
		111-115	Plate Swap On
		116-120	Plate Swap Off
		121-125	Beam Swap On
		126-130	Beam Swap Off
		131-140	Screen Always On
		141-150	Screen Off After 10s

		151-155	Screen Off After 30s
		176-185	Factory Reset
		186-195	Screen Lock
		196-205	Screen Unlock
		206-210	Dimmer Speed 1
		211-215	Dimmer Speed 2
		216-220	Dimmer Speed 3

25 Channel mode

Channel	Name	DMX Value	Description
1	Tilt	0-255	Tilt Movement
2	Dimmer	0-255	Main Dimmer
3	Beam Dimmer	0-255	Beam White Dimmer
4	Beam Strobe Mode	0-10	Closed
		11-36	Open
		37-40	Ramp Up
		41-44	Ramp Up, Random
		45-48	Ramp Down
		49-52	Ramp Down, Random
		53-56	Ramp Up And Down
		57-60	Ramp Up And Down, Random
		61-64	Random
		65-68	Random Single Pixel
		69-72	Random Times
		73-76	Strobe
		252-255	Open
5	Beam Strobe Rate	0-255	Speed From Slow To Fast
6	Beam Strobe Duration	0-255	Beam Strobe Duration
7	Beam Macro	0-255	Beam Macro

8	Beam Macro Speed	0-255	Speed From Slow To Fast
9	Beam Macro Duration	0-255	Beam Macro Duration
10	Plate Dimmer	0-255	Plate RGB Dimmer
11	Plate Red	0-255	Plate Red Dimmer
12	Plate Green	0-255	Plate Green Dimmer
13	Plate Blue	0-255	Plate Blue Dimmer
14	Plate Strobe Mode	0-10	Closed
		11-36	Open
		37-40	Ramp Up
		41-44	Ramp Up, Random
		45-48	Ramp Down
		49-52	Ramp Down, Random
		53-56	Ramp Up And Down
		57-60	Ramp Up And Down, Random
		61-64	Random
		65-68	Random Single Pixel
		69-72	Random Times
		73-76	Strobe
		252-255	Open
15	Plate Strobe Rate	0-255	Speed From Slow To Fast
16	Plate Strobe Duration	0-255	Plate Strobe Duration
17	Plate Macro	0-255	RGB Plate Macro
18	Plate Macro Speed	0-255	Speed From Slow To Fast
19	Plate Macro Colors	0-10	Closed
		11-250	Presets Colors
		251-255	Full RGB
20	Plate Macro Duration	0-255	Duration
21	Plate	0-255	Macro Background Color Dimmer

	Background Dimmer		
22	Background Red	0-255	Macro Background Red Dimmer
23	Background Green	0-255	Macro Background Green Dimmer
24	Background Blue	0-255	Macro Background Blue Dimmer
25	Control	0-70	No Function
		71-75	Plate 1 Invert Off
		76-80	Plate 1 Invert On
		81-85	Plate 2 Invert Off
		86-90	Plate 2 Invert On
		91-95	Beam 1 Invert Off
		96-100	Beam 1 Invert On
		101-105	Beam 2 Invert Off
		106-110	Beam 2 Invert On
		111-115	Plate Swap On
		116-120	Plate Swap Off
		121-125	Beam Swap On
		126-130	Beam Swap Off
		131-140	Screen Always On
		141-150	Screen Off After 10s
		151-155	Screen Off After 30s
		176-185	Factory Reset
		186-195	Screen Lock
		196-205	Screen Unlock
		206-210	Dimmer Speed 1
		211-215	Dimmer Speed 2
		216-220	Dimmer Speed 3

95 Channel mode

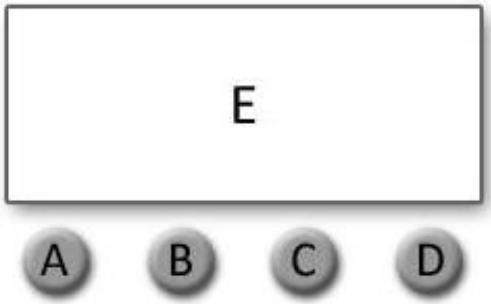
Channel	Name	DMX Value	Description
1	Tilt	0-255	Tilt Movement
2	Dimmer	0-255	Main Dimmer
3	Beam Dimmer	0-255	Beam White Dimmer
4	Beam Strobe Mode	0-10	Open
		11-36	Closed
		37-40	Ramp Up
		41-44	Ramp Up, Random
		45-48	Ramp Down
		49-52	Ramp Down, Random
		53-56	Ramp Up And Down
		57-60	Ramp Up And Down, Random
		61-64	Random
		65-68	Random Single Pixel
		69-72	Random Times
		73-76	Strobe
		252-255	Open
5	Beam Strobe Rate	0-255	Speed From Slow To Fast
6	Beam Strobe Duration	0-255	Beam Strobe Duration
7	Beam Macro	0-255	Beam Macro
8	Beam Macro Speed	0-255	Speed From Slow To Fast
9	Beam Macro Duration	0-255	Beam Macro Duration
10	Plate Dimmer	0-255	Plate RGB Dimmer
11	Plate Red	0-255	Plate Red Dimmer
12	Plate Green	0-255	Plate Green Dimmer
13	Plate Blue	0-255	Plate Blue Dimmer

14	Plate Strobe Mode	0-10	Open
		11-36	Closed
		37-40	Ramp Up
		41-44	Ramp Up, Random
		45-48	Ramp Down
		49-52	Ramp Down, Random
		53-56	Ramp Up And Down
		57-60	Ramp Up And Down, Random
		61-64	Random
		65-68	Random Single Pixel
		69-72	Random Times
		73-76	Strobe
		252-255	Open
15	Plate Strobe Rate	0-255	Speed From Slow To Fast
16	Plate Strobe Duration	0-255	Plate Strobe Duration
17	Plate Macro	0-255	RGB Plate Macro
18	Plate Macro Speed	0-255	Speed From Slow To Fast
19	Plate Macro Colors	0-10	Closed
		11-250	Presets Colors
		251-255	Full RGB
20	Plate Macro Duration	0-255	Duration
21	Plate Background Dimmer	0-255	Macro Background Color Dimmer
22	Background Red	0-255	Macro Background Red Dimmer
23	Background Green	0-255	Macro Background Green Dimmer
24	Background Blue	0-255	Macro Background Blue Dimmer
25	Control	0-70	No Function

		71-75	Plate 1 Invert Off
		76-80	Plate 1 Invert On
		81-85	Plate 2 Invert Off
		86-90	Plate 2 Invert On
		91-95	Beam 1 Invert Off
		96-100	Beam 1 Invert On
		101-105	Beam 2 Invert Off
		106-110	Beam 2 Invert On
		111-115	Plate Swap On
		116-120	Plate Swap Off
		121-125	Beam Swap On
		126-130	Beam Swap Off
		131-140	Screen Always On
		141-150	Screen Off After 10s
		151-155	Screen Off After 30s
		176-185	Factory Reset
		186-195	Screen Lock
		196-205	Screen Unlock
		206-210	Dimmer Speed 1
		211-215	Dimmer Speed 2
		216-220	Dimmer Speed 3
26	Plate Pixel 1 Red	0-255	Plate Pixel 1 Red Dimmer
27	Plate Pixel 1 Green	0-255	Plate Pixel 1 Green Dimmer
28	Plate Pixel 1 Blue	0-255	Plate Pixel 1 Blue Dimmer
…	…	…	…
65	Plate Pixel 14 Red	0-255	Plate Pixel 14 Red Dimmer
66	Plate Pixel 14 Green	0-255	Plate Pixel 14 Green Dimmer
67	Plate Pixel 14 Blue	0-255	Plate Pixel 14 Blue Dimmer
68	Beam Pixel 1	0-255	Beam Pixel 1 Dimmer

69	Beam Pixel 2	0-255	Beam Pixel 2 Dimmer
70	Beam Pixel 3	0-255	Beam Pixel 3 Dimmer
…	…	…	…
95	Beam Pixel 28	0-255	Beam Pixel 28 Dimmer

12. Control menu



A. MENU
B. UP
C. DOWN
D. CONFIRM
E. DIGITAL DISPLAY WINDOW

Display:

MENU To select the programming functions **(press to unlock screen)**
DOWN To go backward in the selected functions
UP To go forward in the selected functions
ENTER To confirm the selected functions

Set DMX Address:

1. Press "**MENU**" to unlock screen, then select the "**DMX Address**" and press "**ENTER**".
2. Showing "**Set DMX Address 001**", Press the "**UP** or **DOWN**" key to increase or decrease the DMX address value.
3 Press "**ENTER**" to save and Exit, Press "**Cancel**" does not save and Exit.

Level 1	Level 2	Description
DMX Address	001-512	Set DMX address
DMX Channel Mode	8CH	8 channels DMX mode
	18CH	18 channels DMX mode
	25CH	25 channels DMX mode
	95CH	95 channels DMX mode
	C 8CH	Compatible with Color STRIKE M channels
	C 11CH	
	C 13CH	
	C 24CH	
	C 30CH	
	C 47CH	
	C 68CH	
	C 74CH	
	C 97CH	
Dimmer Mode	DIM1	Dimmer mode 1
	DIM2	Dimmer mode 2
	DIM3	Dimmer mode 3
Mode Selection	DMX512	DMX mode
	Manual	R/G/B/W/Y (RGB, White dimming and Tilt manual control)
	Auto	Auto 1 / Auto 2 / Auto 3
Network Settings	Set IP address	002.000.000.000
	Set subnet mask	255.000.000.000
	Set the Universe	000~255
System Settings	Display Mode	Always On / 10s Off / 20s Off / 30s Off
	Screen Lock	On / Off [*When the setting is on, the screen will lock after 30 seconds without any operation] *The unlock password is [↑ ↓ ↑ ↓ ENTER ENTER] Or hold press "Enter" button 3 seconds
	Language	English / 语言
	Signal Priority	Wireless Priority/Wired Priority/Wireless Only/ Wired Only **(W-DMX version only)**

	W-DMX	On / Off **(W-DMX version only)**
	W-DMX Unlink	Yes / No **(W-DMX version only)**
	Factory Reset	Yes / No [*Settings Factory Defaults]
	No Signal	Blackout / Hold
	Tilt Reset	No / Yes
	Tilt Reverse	No / Yes
	LED Panel Left-Right Reverse	No / Yes
	LED Panel Up-Down Reverse	No / Yes
	White Tube 1 Reverse	No / Yes
	White Tube 2 Reverse	No / Yes
	White Tube 1-2 Swap	No / Yes
	Screen Flip	No / Yes
System Info.	Temperature	Light temperature
	RDM UID	RDM UID
	Version	Software Version

13. Specification

Strobe Panel LEDs
LED Type: 1.5W RGB 3in1 LEDs
LED Count: 504
LED Colors: RGB
LED Segments: 14 (2 x 7)

Strobe Tube LEDs
LED Type: 5W 6500K LEDs
LED Count: 280
LED Colors: Cool-White
LED Segments: 28 (2 x 14)

Movement
Resolution: 8-16 Bit
Tilt (Degrees): 185°

Control
Control Modes: 8CH / 18CH / 25CH / 95CH / C 8CH /
C 11CH / C 13CH / C 24CH / C 30 CH / C 47CH / C 68CH/
C 74CH / C 97CH
Display: Illuminated graphic LCD Touch Screen
Protocol: USITT DMX-512, RDM, Art-Net, sACN
RDM: Bidirectional communication
Wireless DMX: 2.4 GHz W-DMX™ (optional)
Cooling: Temperature controlled, overheating protection

Effects
Dimmer: 0-100% electronic
Shutter: electronic, max. 20 Hz
Internal Effects: LED Macro Effects

Connectors

Signal connection: Seetronic IP65 XLR 5-Pin or 3-Pin In/Out

Power Input: Seetronic PowerCON TRUE1 In

Art-Net: RJ45 In/Out

Operating Conditions

Mains voltage: 100-240V AC / 50-60Hz

Power: 1800W

Maximum ambient temperature: -30°C / 86°F, 50°C / 122°F

Operating Position: any

Mounting Options

Hanging: Omega-Bracket (Support arm side hanging)

Safety wire attachment: foldout eyelets

Folding clamps (optional)

Shipping

Single fixture: cardboard

Tourpack: 4-way Flight Case

Housing Colors

Standard colors: black

Dimensions

Length: 482 mm / 18.9 in

Width: 178 mm / 9.0 in

Height (head horizontal): 243 mm / 9.5 in

Weight

N.W: 13.0 kg G.W: 16.0 kg

Size

56x43x25cm