NWITC
BLUE SEA LIGHTING

Outdoor LED Wash+Strobe

USER MANUAL

Thank you very much for choosing our product. For safety purpose, please read this manual carefully before your operation. This manual included installation and using information. Please install and operate it according to this manual.

Part 1 Product

1.1 Product introduction

This product is designed for outdoor/indoor use. Suitable applications include wash or effect lighting for architectural, stage or nightclub applications. This product can also be installed for use in signage and advertising using the dynamic functions available with DMX512 control. Direct input of DMX512 signal allows the units to be controlled from any DMX512 controller. This product can be operated as a single unit or in multiple units for large applications.

1.2 Technical Specifications

Input voltage: AC100-240V, 50/60Hz
Rated power: 400W
Light source: 12*20W high power LED (4 in 1 RGBW)+312*1W White LED
Channel:5/18/92/100 channels
Color mixing(Wash): RGBW color mixing, colorful infinite change
Strobe: 0-20Hz
Control: international standard DMX512, Master/Slave, Auto Mode, RDM
Lens angle: 25° (15°/45°/60° optional)
Display: OLED function menu with 4 buttons
Heat dissipation: intelligent temperature control, active
Maximum ambient temperature 40° C
Minimum ambient temperature -20° C
Maximum case temperature 65° C
Power connection IP65 Seetronic power connectors input/output
Data connection IP65 Seetronic DMX connectors input/output
LED life: 50,000-100,000 hours
Waterproof rating: IP65
Net weight: 7.5kg

1.3 Safety Warning

IMPORTANT:

ALWAYS READ THE USER MANUAL BEFORE OPERATION. PLEASE CONFIRM THAT THE POWER SUPPLY STATED ON THE PRODUCT IS THE SAME AS THE MAINS POWER SUPPLY IN YOUR AREA.

- This product must be installed by a qualified professional.
- Always operate the equipment as described in the user manual.
- A minimum distance of 0.5m must be maintained between the equipment and combustible surface.
- The product must always be placed in a well ventilated area.
- Always make sure that the equipment is installed securely.
- DO NOT stand close to the equipment and stare directly into the LED light source.
- Always disconnect the power supply before attempting and maintenance.
- Always make sure that the supporting structure is solid and can support the combined weight of the products.
- The earth wire must always be connected to the ground.
- Do not touch the power cables if your hands are wet.

ATTENTION:

- This product left the place of manufacture in perfect condition. In order to maintain this condition and for safe operation, the user must always follow the instructions and safety warnings described in this user manual.
- Avoid shaking or strong impacts to any part of the equipment.
- Make sure that all parts of the equipment are kept clean and free of dust.
- Always make sure that the power connections are connected correct and secure.
- If there is any malfunction of the equipment, contact your distributor immediately.
- When transferring the product, it is advisable to use the original packaging in which the product left the factory.
- Shields, lenses or ultraviolet screens shall be changed if they have become damaged to such an extent that their effectiveness is impaired.
- The lamp (LED) shall be changed if it has become damaged or thermally deformed.

PART 2 INSTALLATION

2.1 Mounting:

2.1-1 Hanging

The product can be mounted in a hanging position using the supporting bracket. The bracket should be secured to the mounting truss or structure using a standard mounting clamp. Please note that when hanging the unit a safety cable should also be used

.

2.1-2 Upright

The product can be mounted in an upright or sitting position using the supporting brackets.

NOTE:

The product can be mounted at any angle and in any position. It is possible to further adjust the angle of the product using the two adjustment knobs located on the side of the fixture.

2.2 Special construction for DMX connection.

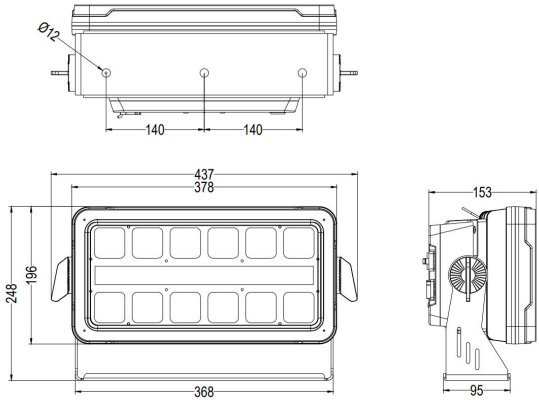
☆ At last fixture, the DMX cable has to be terminated with a terminator to reduce signal errors. Solder a 120-ohm 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last fixture.

☆ If the controller is 5-pin output, it's necessary to use an adaptor to transfer signal from 5-pin output to 3-pin XLR-plug or you can connect cables as following:

3-PIN TO 5-PIN CONRERSION CHART

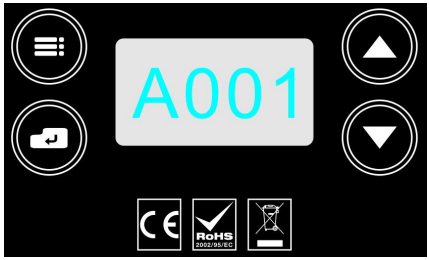
Conductor	3 Pin Female(Output)	5 Pin Male(Input)
Ground/Shiele	Pin 1	Pin 1
Data(-) signal	Pin 2	Pin 2
Data(+) signal	Pin 3	Pin 3
Not used		Pin 4
Not used		Pin 5

PART 3 Product Size



PART 4 Display Panel Operation

4.1 OLED Display panel menu instruction



[MENU] menu selection or return to previous menu.
[UP] press [UP] through the menu list to increase/change the value of the current function.
[DOWN] press [DOWN] through the menu list to decrease/change the value of the current function.
[ENTER] confirm & quit out current function setting.

4.2 Display panel operation instruction

Main	Sub-Menu1	Sub-	Sub-	Description

menu		Menu2	Menu3	
DMX Mode	Address	001		001-512
	Channel	018CH		The channel mode can be any of the following：005/018/092/100
Auto	Dimmer	0-255		Dimmer：000-255，Control the brightness of automatic operation RGBW effect：00-48 RGBW effect 00：Do not execute effects RGBW effect 01：RGBW Monochrome jump RGBW effect 02：Grad RGBW effect 03：Pulse RGBW effect 04：Jump RGBW effect 05：Effect polling RGBW effect 06-48：Various effects RGBW speed：000-100 RGBW color：00-09 RGBW color 00：Color polling
	RGBW effect	0-48		
	RGBW speed	000-100		
	RGBW color	00-99		

	P effect	00-09		(color effects will be displayed during pattern polling) RGBW color 01：Red RGBW color 02：Green RGBW color 03：Blue RGBW color 04：White RGBW color 05：Red & Green combination RGBW color 06：Red & blue combination RGBW color 07：Green & Blue combination RGBW color 08：Red & Green & Blue combination RGBW color 09：Red & Green & Blue & White combination P effect 00：Do not execute effects P effect 01：Pulse P effect 02：Jump P effect 03：Effect polling P effect 04-27：Various effects P speed：000-100
	P speed	000-100		
Manual	Dimmer	000-255		Dimmer：000-255，Control the brightness of manual dimming Red：000-255 Green：000-255 Blue：000-255
	Red	000-255		
	Green	000-255		
	Blue	000-255		

	White	000-255		White：000-255
	Pure	000-255		Pure：000-255
Mic	Dimmer	000-255		Dimmer：000-255，Control the brightness of voice control RGBW mic：00-05 RGBW mic 00：Do not execute voice control effect RGBW mic 01-04：Various voice control effects RGBW mic 05：Voice controlled effects polling RGBW sensi：000-100 P mic：00-05 P mic 00：Do not execute voice control effect P mic 01-04：Various voice control effects P mic 05：Voice controlled effects polling P sensi：000-100
	RGBW mic	00-05		
	RGBW sensi	000-100		
	P mic	00-05		
	P sensi	000-100		
Set	Language	中文		中文：The screen display language is Chinese English：The screen display language is English
		English		
	MOSI switch	Shut down		Shut down：Do not send host data to slave Turn on：Send host data to slave
		Turn on		

	Screensaver	Shut down		Shut down：Do not enter the screensaver Turn on：Enter screensaver in 30 seconds
		Turn on		
	Signal state	Clear		In DMX mode, the data status of the LED after signal interruption. Clear：The data will be cleared later Hold：Data hold
		Hold		
	Light order	Positive		Positive ： The direction of running and dimming of the lamp bead is positive Reverse ： The direction of running and dimming of the LED beads is reversed
		Reverse		
	Dim bit	8bit		The process of changes in LED bead data. 8bit：Direct switching of LED data 16bit：Smooth conversion of LED bead data
		16bit		
	Dim curve	Linear		Power curve of console's ordinary dimming Linear：Linear power curve Square：Square power curve Anti-square ： Anti-square
		Square		
		Anti-square		

		S-line		power curve S-line：S-line power curve
	Dim speed	000-255		000-255 The larger the value, the slower the light changes, which only applies to the normal dimming of the console (if the channel mode itself has a dimming speed, the dimming speed channel is used as a guide)
	Fan mode	Controlled		Controlled：If the temperature control resistor is not connected, the fan will rotate when the LED lights up. After connecting the temperature control resistor, when the temperature exceeds 44 ℃, the fan rotates; When the temperature drops below 40 ℃, the fan stops Continue ： The fan rotates unconditionally
		Continue		
	Screenlock	Shut down		Shut down：Not locked during screensaver Turn on ： Lock during screensaver operation
		Turn on		
	Screenflip	Shut down		Shut down：Normal display Turn on：The screen flips and

		Turn on		the buttons also flip
	Restore	Shut down		Shut down：Do not restore to factory Turn on：Factory reset, without restoring backend parameters and language settings
		Turn on		
Lamp Info	Use time 00：00			Display the current information of the lighting fixture
	Current temp 00℃			
	Max temp 00℃			
	Fan state Stop			
	Run VER 250415BYV1			

4.3 DMX Channel instruction

5 Channels Mode

Channel	Function	Description
1st channel	R dimming	Control R from dark to bright
2nd channel	G dimming	Control G from dark to bright
3rd channel	B dimming	Control B from dark to bright
4th channel	W dimming	Control W from dark to bright

5th channel	P dimming	Control P from dark to bright

100 Channels Mode

Channel	Function	Description
1st channel	R1 dimming	Control R1 from dark to bright
2nd channel	G1 dimming	Control G1 from dark to bright
3rd channel	B1 dimming	Control B1 from dark to bright
4th channel	W1 dimming	Control W1 from dark to bright
.....	.....	.....
45h channel	R12 dimming	Control R12 from dark to bright
46th channel	G12 dimming	Control G12 from dark to bright
47th channel	B12 dimming	Control B12 from dark to bright
48th channel	W12 dimming	Control W12 from dark to bright
49th channel	P1 dimming	Control P1 from dark to bright
.....	.....	.....
100th channel	P52 dimming	Control P52 from dark to bright

18 Channels Mode

Channel	Function	Description
1st channel	Total dimming	Must be turned on, otherwise the light beads will not light up
2nd channel	Total strobe	The highest strobe priority, controls the strobe synchronization of RGBW and P, and removes power restrictions on RGBW and P during strobe 0-5 empty; 6-255 normal strobe, from slow to fast
3rd channel	RGBW effect	**0—5 empty；**

		Optional color patterns：6-240 **Not optional color patterns：241-255（Polling LED bead colors）** ********** **Optional color patterns** **********/ 4， 6-10 channels need to be pushed up for assistance, while 2，5，11，17-18 channels increase the performance of the effect 6-10 Pattern Summary 11-15 Pattern 1 16-20 Pattern 2 21-25 Pattern 3 26-30 Pattern 4 31-35 Pattern 5 36-40 Pattern 6 41-45 Pattern 7 46-50 Pattern 8 51-55 Pattern 9 56-60 Pattern 10 61-65 Pattern 11 66-70 Pattern 12 71-75 Pattern 13 76-80 Pattern 14 81-85 Pattern 15 86-90 Pattern 16 91-95 Pattern 17 96-100 Pattern 18 101-105 Pattern 19 106-110 Pattern 20

		111-115 Pattern 21 116-120 Pattern 22 121-125 Pattern 23 126-130 Pattern 24 131-135 Pattern 25 136-140 Pattern 26 141-145 Pattern 27 146-150 Pattern 28 151-155 Pattern 29 156-160 Pattern 30 161-165 Pattern 31 166-170 Pattern 32 171-175 Pattern 33 176-180 Pattern 34 181-185 Pattern 35 186-190 Pattern 36 191-195 Pattern 37 /**********/ /********** **Not optional color patterns** **********/ 4 channel need to be pushed up for assistance, while 2， 5， 11， 17-18 channels increase the performance of the effect 196-200 Grad 201-205 Pulse 206-210 Jump 211-215 Colorful pattern 1 216-220 Colorful pattern 2 221-225 Colorful pattern 3

		226-230 Colorful pattern 4 231-235 Colorful pattern 5 236-240 Colorful pattern 6 241-243 Voice control 1 244-246 Voice control 2 247-249 Voice control 3 250-252 Voice control 4 253-255 Voice control summary /**********/
4th channel	RGBW effect speed	From slow to fast (when the speed is zero, macro functions will not be executed)
5th channel	RGBW dimming speed and pattern fading in and out	0:emptP 1-255:The larger the value, the slower the light changes When dimming normally, it is the dimming speed When running effect, if the value is greater than 0, enable fade in and fade out
6th channel	RGB background color	1-36：red (from dark to bright) 37 is black field 38-73 ：green (from dark to bright) 74 is black field 75-110：blue (from dark to bright) 111 is black field 112-147：combination of red and green (from dark to bright) 148 is black field 149-184：combination of red and blue (dark to bright) 185 is black field 185-221：combination of green and blue (dark to bright) 222 is black field 223-255：combination of red, green, and blue (from

		dark to bright)
7th channel	R dimming	Control the R from dark to bright, and it can also be used as a color selection for the RGBW effect
8th channel	G dimming	Control the G from dark to bright, and it can also be used as a color selection for the RGBW effect
9th channel	B dimming	Control the B from dark to bright, and it can also be used as a color selection for the RGBW effect
10th channel	W dimming	Control the W from dark to bright, and it can also be used as a color selection for the RGBW effect
11th channel	RGBW strobe	Control the strobe of RGBW, and release the power limit on RGBW during strobe 0-5：empty 6-255：normal strobe, from slow to fast
12th channel	P dimming	Control the P from dark to bright, and it can also be used as a color selection for the P effect
13th channel	P strobe	Control the strobe of P, and release the power limit on P during strobe 0-5：empty 6-255：normal strobe, from slow to fast
14th channel	P effect	**0—5 empty；** **Optional color patterns：6-221** **Not optional color patterns：222-255** /********** **Optional color patterns** **********/ 12， 15 channels need to be pushed up for assistance, while 2，13，16-18 channels increase the performance of the effect 6-13 Pattern summary

		14-21 Pattern1 22-29 Pattern2 30-37 Pattern3 38-45 Pattern4 46-53 Pattern5 54-61 Pattern6 62-69 Pattern7 70-77 Pattern8 78-85 Pattern9 86-93 Pattern10 94-101 Pattern11 102-109 Pattern12 110-117 Pattern13 118-125 Pattern14 126-133 Pattern15 134-141 Pattern16 142-149 Pattern17 150-157 Pattern18 158-165 Pattern19 166-173 Pattern20 174-181 Pattern21 182-189 Pattern22 190-197 Pattern23 198-205 Pattern24 /*****/ /********** **Not optional color patterns** **********/ 15 channel need to be pushed up for assistance, while 2， 13， 16-18 channels increase the

		performance of the effect 206-213 Pulse 214-221 Jump 222-227 Voice control 1 228-233 Voice control 2 234-239 Voice control 3 240-245 Voice control 4 246-255 Voice control summary /**********/
15th channel	P effect speed	From slow to fast (when the speed is zero, macro functions will not be executed)
16th channel	P dimming speed and pattern fading in and out	0:emptP 1-255:The larger the value, the slower the light changes When dimming normally, it is the dimming speed When running effect, if the value is greater than 0, enable fade in and fade out
17th channel	Reversion and light effect refresh	Set the current direction of the LED sequence as positive 1-128: Run forward with dimming and lighting effects, 129-255: Run backward with dimming and lighting effects. After a certain amount of light effect reversal, there is no significant difference When the push rod exceeds 50 or changes direction, the light effect refreshes
18th channel	Setting	The push rod needs to be pushed for the first time

		to cause a change in the value before it can be considered as a setting. 0-5: Empty (keep current settings); 6-45: 8-bit dimming (stay for 2 seconds); 46-85:16 bit dimming (stay for 2 seconds); 86-125: Linear dimming (stay for 2 seconds); 126-165: Square dimming (stay for 2 seconds); 166-205: Anti square dimming (stay for 2 seconds); 206-245: S line dimming (stay for 2 seconds); 246-255: The current setting is invalid (stay for 5 seconds);

92 Channels Mode

Channel	Function	Description
1st channel	Total dimming	Must be turned on, otherwise the light beads will not light up
2nd channel	Total strobe	The highest strobe priority, controls the strobe synchronization of RGBW and P, and removes power restrictions on RGBW and P during strobe 0-5 empty; 6-255 normal strobe, from slow to fast
3rd channel	RGBW effect	**0—5 empty；** **Optional color patterns：6-240** **Not optional color patterns：241-255（Polling LED bead colors）** ********** **Optional color patterns** **********/ 4， 6-10 channels need to be pushed up for

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		141-145 Pattern 27 146-150 Pattern 28 151-155 Pattern 29 156-160 Pattern 30 161-165 Pattern 31 166-170 Pattern 32 171-175 Pattern 33 176-180 Pattern 34 181-185 Pattern 35 186-190 Pattern 36 191-195 Pattern 37 /**********/ /********** **Not optional color patterns** **********/ 4 channel need to be pushed up for assistance, while 2， 5， 11， 17-18 channels increase the performance of the effect 196-200 Grad 201-205 Pulse 206-210 Jump 211-215 Colorful pattern 1 216-220 Colorful pattern 2 221-225 Colorful pattern 3 226-230 Colorful pattern 4 231-235 Colorful pattern 5 236-240 Colorful pattern 6 241-243 Voice control 1 244-246 Voice control 2

		247-249 Voice control 3 250-252 Voice control 4 253-255 Voice control summary /********** **********/
4th channel	RGBW effect speed	From slow to fast (when the speed is zero, macro functions will not be executed)
5th channel	RGBW dimming speed and pattern fading in and out	0:emptP 1-255:The larger the value, the slower the light changes When dimming normally, it is the dimming speed When running effect, if the value is greater than 0, enable fade in and fade out
6th channel	RGB background color	1-36：red (from dark to bright) 37 is black field 38-73 ：green (from dark to bright) 74 is black field 75-110：blue (from dark to bright) 111 is black field 112-147： combination of red and green (from dark to bright) 148 is black field 149-184： combination of red and blue (dark to bright) 185 is black field 185-221：combination of green and blue (dark to bright) 222 is black field 223-255：combination of red, green, and blue (from dark to bright)
7th channel	R dimming	Control the R from dark to bright, and it can also be used as a color selection for the RGBW effect
8th channel	G dimming	Control the G from dark to bright, and it can also be used as a color selection for the RGBW effect
9th channel	B dimming	Control the B from dark to bright, and it can also be

		used as a color selection for the RGBW effect
10th channel	W dimming	Control the W from dark to bright, and it can also be used as a color selection for the RGBW effect
11th channel	RGBW strobe	Control the strobe of RGBW, and release the power limit on RGBW during strobe 0-5：empty 6-255：normal strobe, from slow to fast
12th channel	P dimming	Control the P from dark to bright, and it can also be used as a color selection for the P effect
13th channel	P strobe	Control the strobe of P, and release the power limit on P during strobe 0-5：empty 6-255：normal strobe, from slow to fast
14th channel	P effect	**0—5 empty；** **Optional color patterns：6-221** **Not optional color patterns：222-255** /********** **Optional color patterns** **********/ 12， 15 channels need to be pushed up for assistance, while 2，13，16-18 channels increase the performance of the effect 6-13 Pattern summary 14-21 Pattern1 22-29 Pattern2 30-37 Pattern3 38-45 Pattern4 46-53 Pattern5 54-61 Pattern6

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		228-233 Voice control 2 234-239 Voice control 3 240-245 Voice control 4 246-255 Voice control summary /**********/
15th channel	P effect speed	From slow to fast (when the speed is zero, macro functions will not be executed)
16th channel	P dimming speed and pattern fading in and out	0:emptP 1-255:The larger the value, the slower the light changes When dimming normally, it is the dimming speed When running effect, if the value is greater than 0, enable fade in and fade out
17th channel	Reversion and light effect refresh	Set the current direction of the LED sequence as positive 1-128: Run forward with dimming and lighting effects, 129-255: Run backward with dimming and lighting effects. After a certain amount of light effect reversal, there is no significant difference When the push rod exceeds 50 or changes direction, the light effect refreshes
18th channel	Setting	The push rod needs to be pushed for the first time to cause a change in the value before it can be considered as a setting. 0-5: Empty (keep current settings); 6-45: 8-bit dimming (stay for 2 seconds); 46-85:16 bit dimming (stay for 2 seconds); 86-125: Linear dimming (stay for 2 seconds);

		126-165: Square dimming (stay for 2 seconds); 166-205: Anti square dimming (stay for 2 seconds); 206-245: S line dimming (stay for 2 seconds); 246-255: The current setting is invalid (stay for 5 seconds);
19th channel	R1 dimming	Control R1 from dark to bright
20th channel	G1 dimming	Control G1 from dark to bright
21st channel	B1 dimming	Control B1 from dark to bright
22nd channel	W1 dimming	Control W1 from dark to bright
.....	.....	.....
63rd channel	R12 dimming	Control R12 from dark to bright
64th channel	G12 dimming	Control G12 from dark to bright
65th channel	B12 dimming	Control B12 from dark to bright
66th channel	W12 dimming	Control W12 from dark to bright
67th channel	P1 dimming	Control P1 from dark to bright
.....	.....	.....
92nd channel	P26 dimming	Control P26 from dark to bright