

# CYC HORI LIGHT CYC SERIES

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## USER MANUAL

July 2019





## Safety Information

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### **WARNING**

1. Do not open or disassemble the cover to reduce the risk of electric shock.
2. Please wear safety equipment such as safety helmet during work.
3. Be sure to fix the safety chain on the product when installing and moving.
4. Please install the signs below for people to bypass when install the product on high truss.
5. The work should be done under the direction of approved specialist who is trained in safety and mechanical installations.

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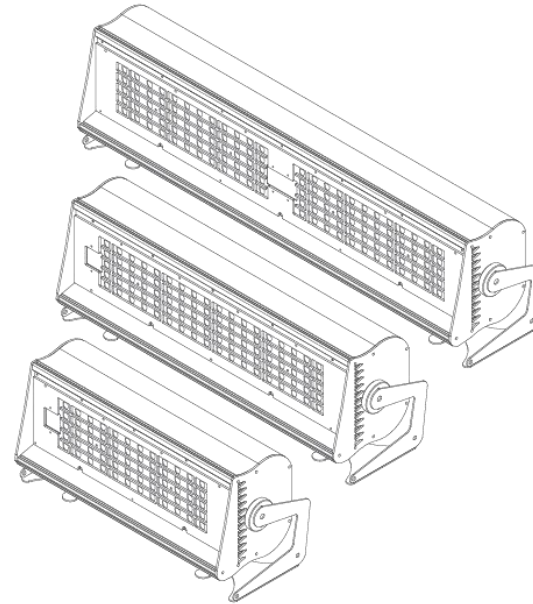
## Fixture Information

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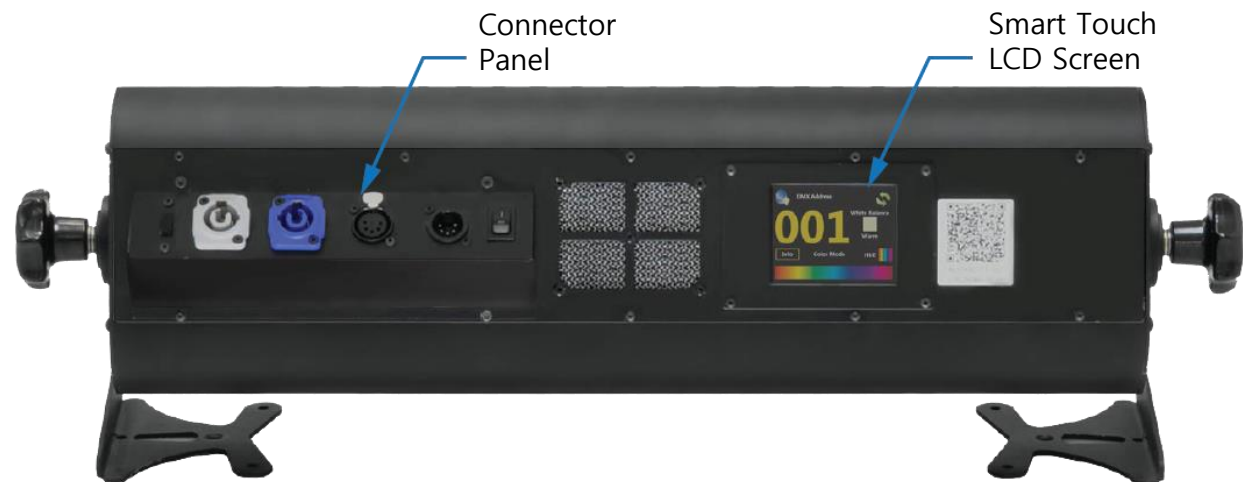
CYC Series is LED light for broadcast studio and theatre. Composed of R, G, B, Amber and white color LED lighting which user can illuminate the custom color to the horizon wall of 8m or more.



## Fixture Exterior View



Fixed Knob

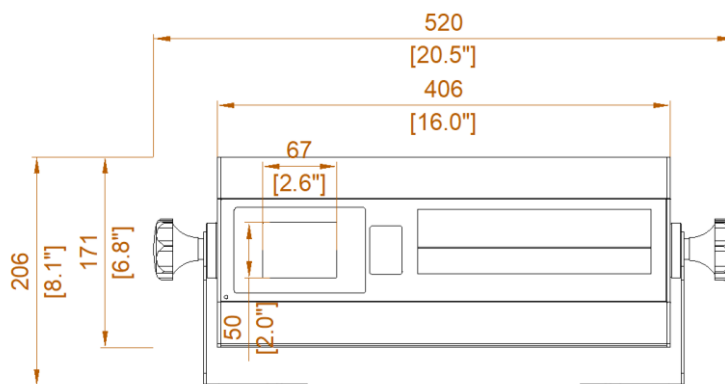
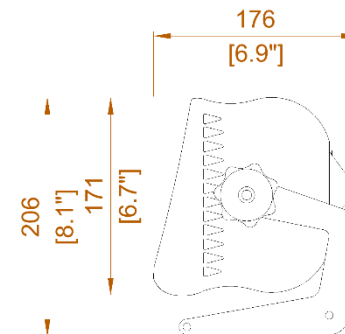
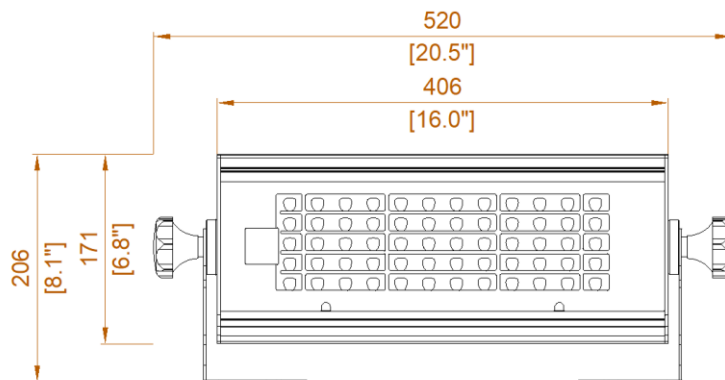


Connector Panel

Smart Touch LCD Screen

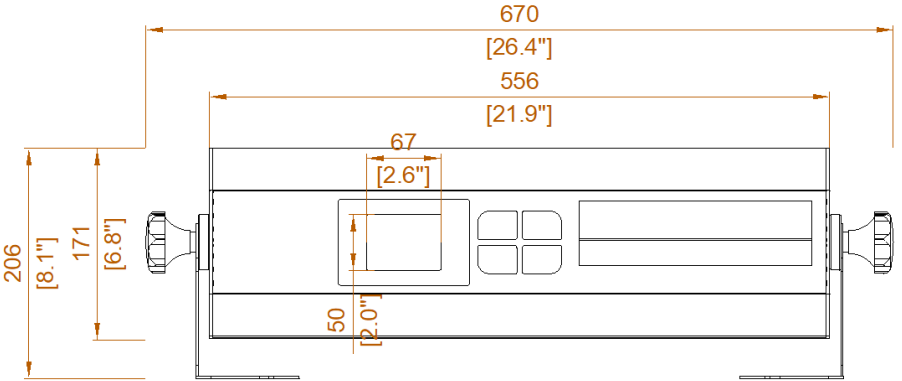
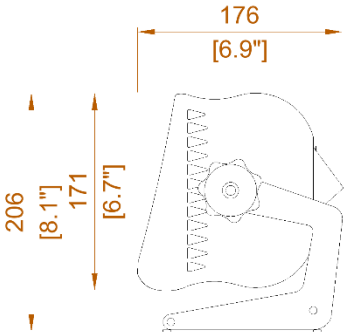
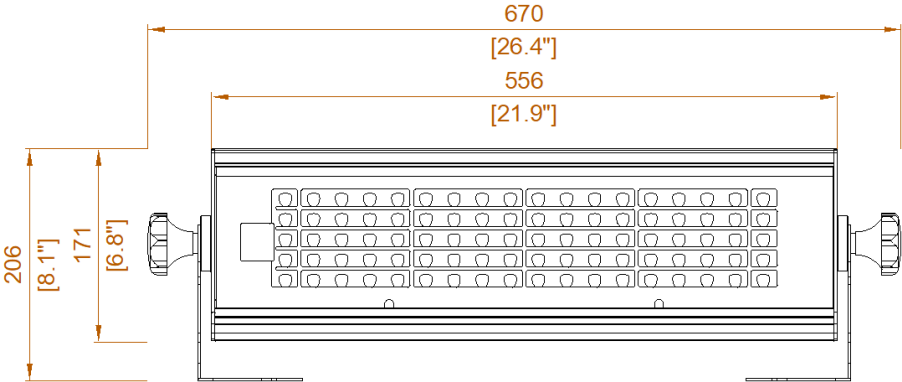
## Dimensions (CYC400)

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# Dimensions (CYC500)

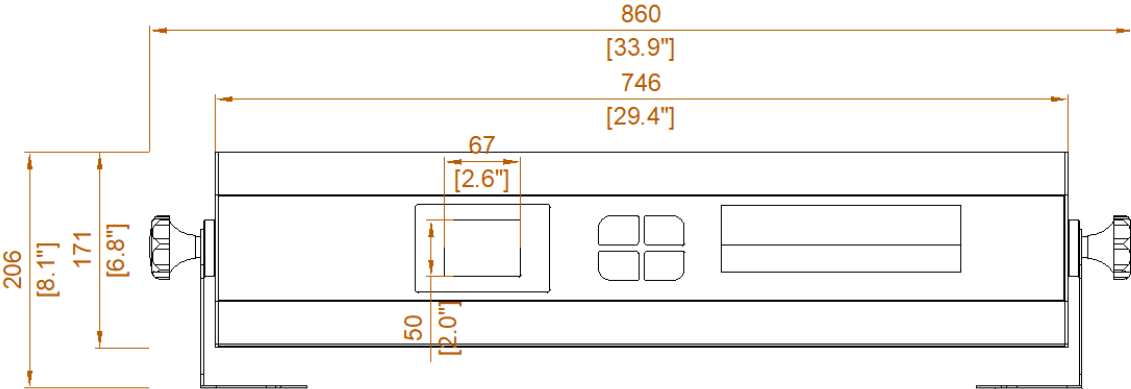
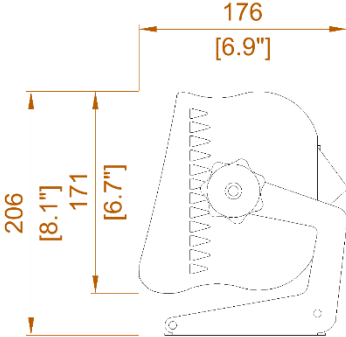
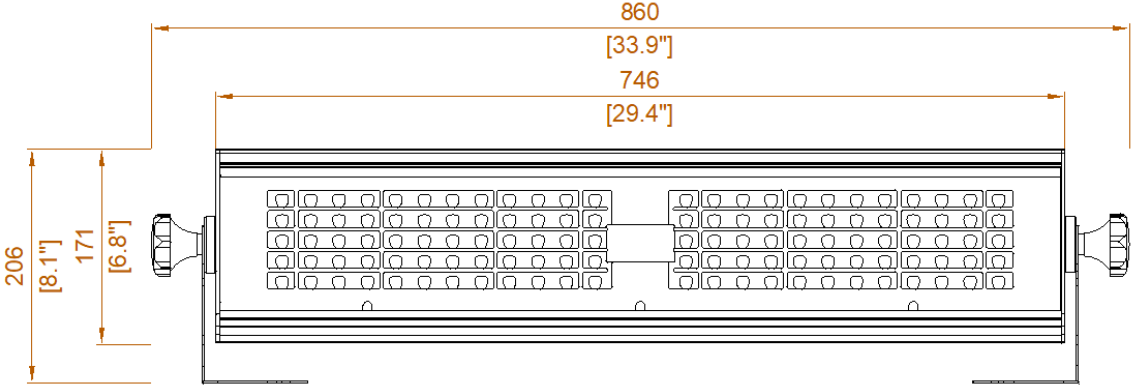
mm  
(inch)





# Dimensions (CYC800)

mm  
(inch)

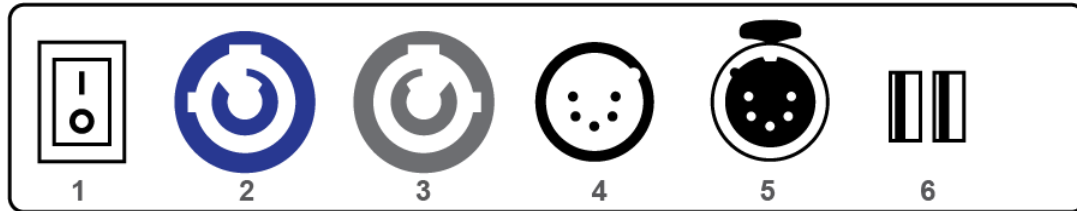


# Technical Specifications

	CYC400	CYC500	CYC800
Physical Size	520 x 206 x 176mm	670 x 206 x 176mm	860 x 206 x 176mm
LED Chip	CREE XP-E 3W 60ea	CREE XP-E 3W 90ea	CREE XP-E 3W 120ea
Beam Angle	60x135° / 85x150° / 130x60° / 20x60° / 30x60° / 40x60°		
Weight (kg/lbs)	6.5 / 14.3	8.1 / 17.8	10.1 / 22.2
Handling	Adjusting Sliding Stirrup, High Strength Tilt Lock		
Mounting	16mm		
Tilt Angle	±270°		
Power Supply Range	AC 100-240V, 50/60Hz		
Power Consumption	150W	240W	300W
White Light (CCT)	Full RGB + Amber + White (Only for 'H' model)		
CRI	80~94		
Dimming	0~100% 16-bit		
Control	5-PIN DMX In and Out, Smart Touch LCD Controller, RDM, (Option) Wireless DMX512, Wireless RDM		
Remote Device Management	Supported		
Ambient Temperature Operation	-20~45°C		
IP Rating	IP20		
Estimated LED Lifetime	Over 50,000 hours		

## Power Connection

AC power at 100-240V, 50-60Hz



1. POWER ON/OFF SWITCH
2. POWER IN
3. POWER OUT
4. DMX IN
5. DMX OUT
6. ⚠ USB PORT (for ADMINISTRATOR ONLY)  
(Do not connect USB  
without administrator's permission.)



1. Observe the proper voltage range
2. If power is supplied outside the range, noise may be generated from the SMPS.
3. If the operating voltage is out of the proper voltage range,  
SMPS function may be degraded or damaged.

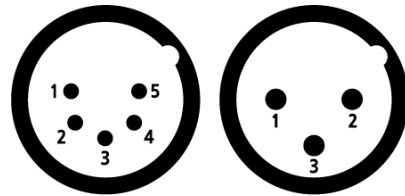
## DMX Connection

3-pin or 5-pin XLR sockets are equipped for DMX input and output, depending on user needs. Connect the controller to a lighting, or lighting fixture to other lighting fixture. If user uses a standard DMX controller, the DMX output of the controller can connect directly to the DMX input of the first fixture in the DMX chain. User must use an adapter cable for connect the DMX controller to other XLR output.

### DMX-INPUT

#### XLR Mounting-plugs

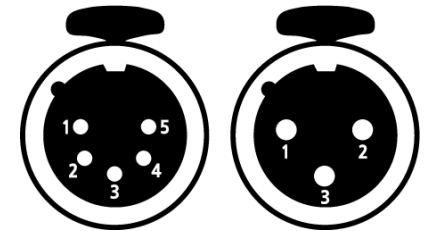
- 1-Shield
- 2-Signal (-)
- 3-Signal (+)
- 4-Not Connected
- 5-Not Connected



### DMX-OUTPUT

#### XLR Mounting-sockets

- 1-Shield
- 2-Signal (-)
- 3-Signal (+)
- 4-Not Connected
- 5-Not Connected



Connect the DMX output of the first lighting fixture in DMX chain to the DMX input of the next fixture, and connect one output to the input of the next fixture until all fixtures are connected.

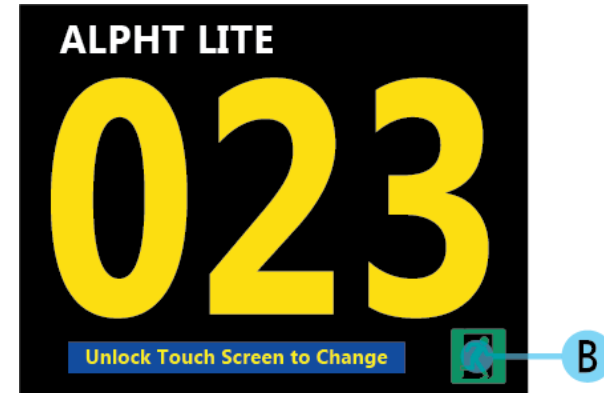
In the last lighting fixture, the DMX cable must be end with a terminator(120  $\Omega$  resistor) in DMX output signal (+, -).

# Unlocking



**Main Screen (Locked)**

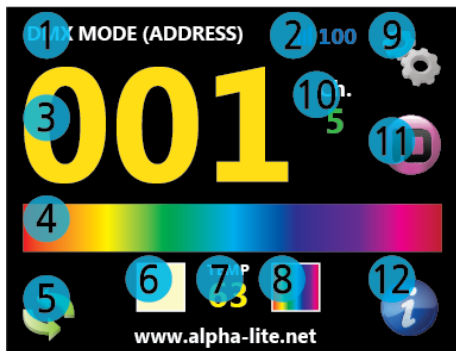
When the fixture is turned on, the Smart Touch screen automatically locked. To unlock the touch screen, touch the finger icon (A) three times. If you do not touch for 30 seconds, the lock is reset.



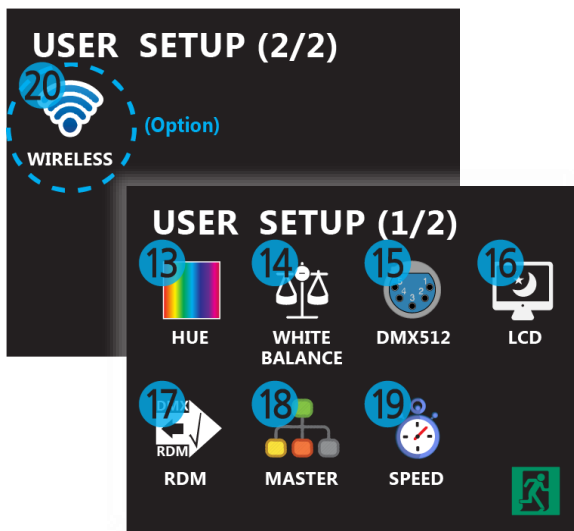
**Fixture ID Screen (Locked)**

If the power is turned off and then on again while the fixture ID number screen is displayed, the fixture ID lock screen will appear. To unlock the touch screen, touch the exit icon (B) to move to 'Main Screen (Locked)', and press the finger icon (A) three times. If you do not touch for 30 seconds, the lock is reset.

# Screen Instruction



Main Screen (Unlocked)



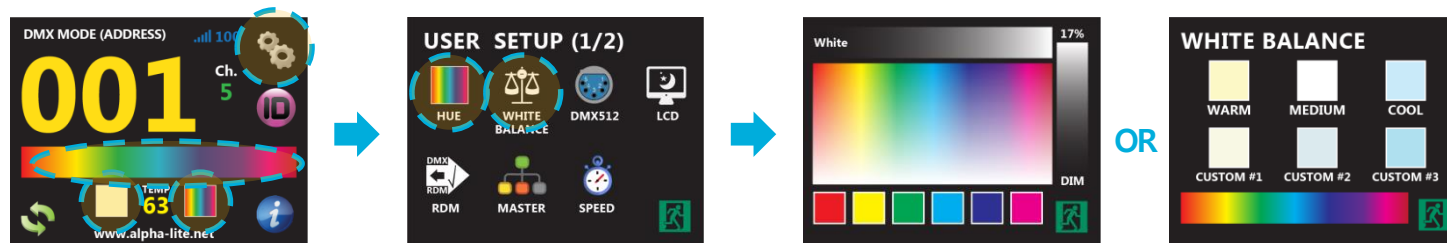
Setting Screen

1	<b>Current Mode</b>	Display DMX MODE or USER MODE or SERIAL MODE.
2	<b>Wireless Signal (Option)</b>	Wireless Signal sensitivity is displayed in % only when set to 'Wireless Enable'.
3	<b>DMX512 Address</b>	Display current DMX512 Address.
4	<b>Color Picker</b>	Touch the desired color to change the light color.
5	<b>Screen Rotation</b>	LCD screen is rotated 180° for each touch.
6	<b>White Balance</b>	White balance can be set or selected
7	<b>Fixture Current Temperature</b>	The current temperature of the instrument is detected and displayed in ° C.
8	<b>Hue &amp; Brightness</b>	Change RGB color and white brightness.
9	<b>Setting</b>	Setting or changing the function of the equipment.
10	<b>Current Channel Mode</b>	The current channel mode is displayed.
11	<b>Fixture ID</b>	Displays numbers for equipment management.
12	<b>Equipment Information</b>	You can see basic information about the equipment.
13	<b>Hue &amp; Brightness Adjust</b>	Change RGB color and white brightness.
14	<b>White Balance Setup</b>	Select or set the white balance.
15	<b>DMX512 Address Setup</b>	Set channel mode and DMX512 address
16	<b>LCD Off Setup</b>	Set LCD Auto off
17	<b>RDM Setup</b>	Activate and deactivate RDM communication function
18	<b>Master Setup</b>	Activate and deactivate Master function
19	<b>Dimming Speed Setup</b>	Set dimming speed
20	<b>Wireless Setup (Option)</b>	Activate and deactivate wireless DMX512 function

## [Setting] Mode Change

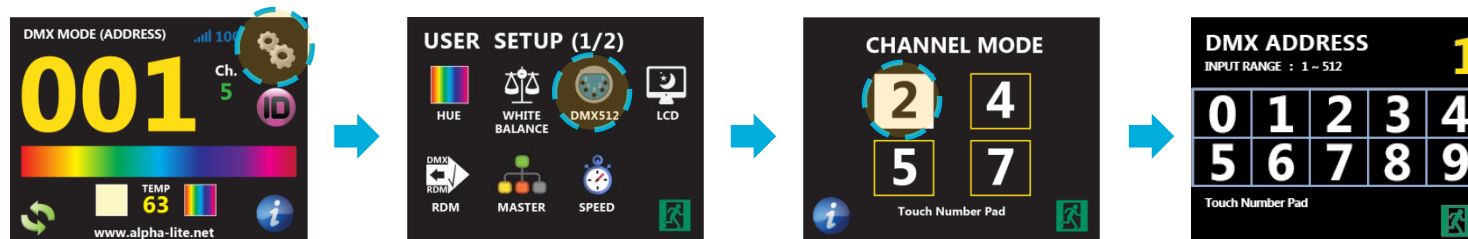
- DMX Mode : It is used to adjust by DMX512 signal.
- User Mode : It is used when the user directly manipulates the equipment.
- Serial Mode : It is used for maintenance.

### ■ DMX Mode → User Mode



When in DMX mode, user can change to user mode by touching 'Main screen - Color Picker, White Balance, Hue', or adjusting 'Setting - Hue, White Balance'.

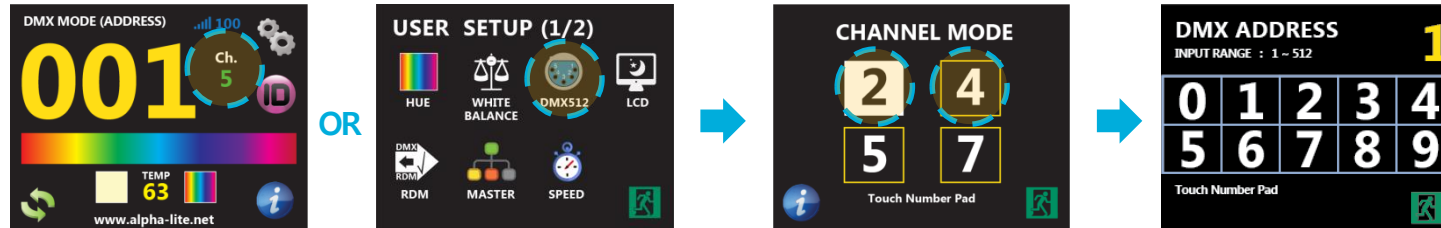
### ■ User Mode → DMX Mode



When in User mode, user can change to DMX mode by through 'Setting - DMX512 - Channel selection - DMX address'.

# [Setting] Channel Mode Change

## ■ Channel Mode Change



User can change the channel by selecting '**Current channel mode**' in main screen or '**DMX512 - Channel selection - DMX address**' in setting.  
Pressing the  icon in 'Channel Mode' displays information for each channel.

See p. 24 for Channel mode function and value

CH. INFORMATION	
Ch. 1	: Dimming
Ch. 2	: Red Color
Ch. 3	: Green Color
Ch. 4	: Blue Color
Ch. 5	: Amber Color
Ch. 6	: White Color
Ch. 7	: Color Macro
Ch. 8	: Strobe

CYC400/500/800

- 2 (2 Channel mode) : Dimming, Color Macro
- 5 (5 Channel mode) : RGB + Amber + W
- 6 (6 Channel mode) : Dimming, RGB + Amber + W
- 8 (8 Channel mode) : Dimming, RGB + Amber + W + Color Macro


ex) 8 Channel Mode



# [Setting] DMX512 Address Setup


## ■ DMX512 Address Setup in the Main Screen



Touch '**DMX512 Address**' on the main screen to switch to the input window.  
001~512 value can be entered. Press  icon to save the DMX512 address and move to the main screen.  
Also, the value can be changed by RDM. \* **The number blinks when the connection is disconnected.**

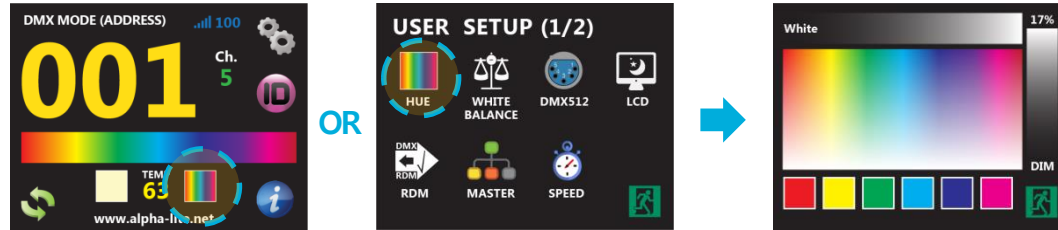
## ■ DMX512 Address Setup in Setting



Touch '**DMX512 Setup – Channel Mode**' on the Setting screen to switch to the input window.  
001~512 value can be entered. Press  icon to save the DMX512 address and move to the main screen.  
Also, the value can be changed by RDM. \* **The number blinks when the connection is disconnected.**

# [Setting] Hue & Brightness & White Balance Adjust

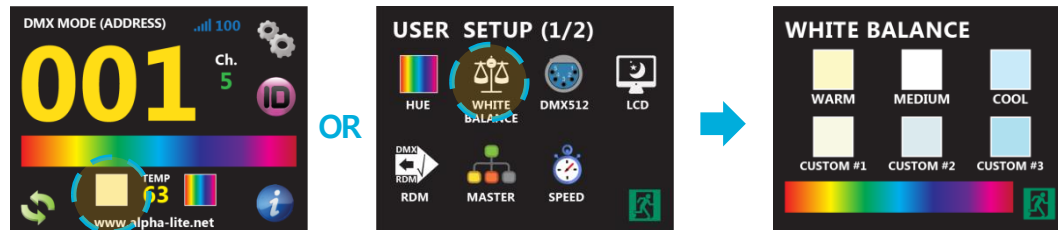
## ■ Hue & Brightness Adjust



Touch '**Hue & Brightness**' on the main screen or the setting screen to adjust color, saturation and brightness.

User can set the desired color by touching the gradient(Upper=White, Center=Hue & Saturation, Right=Brightness) and the standard color boxes(RGB & CMY).

## ■ White Balance Adjust



Displays the color of the current white balance and is classified as Warm, Medium, Cool, Custom#.



Touch 'White Balance' on the main screen or the setting screen to select white balance.

Gain is adjusted for each color of R, G, B based on the selected white.

# [Setting] Fixture ID Setup and Change

## ■ Fixture ID Setup and Change



Touch  on the main screen, the ID is displayed large on the screen, and touch the number to switch to the input window. It is a number for the management of the equipment and can be changed by the user. User can enter the value from 001~999, and touch  after input to switch to the main screen. Also, the value can be changed by RDM \* **The number blinks when the connection is disconnected.**

## ■ Fixture Name Setup



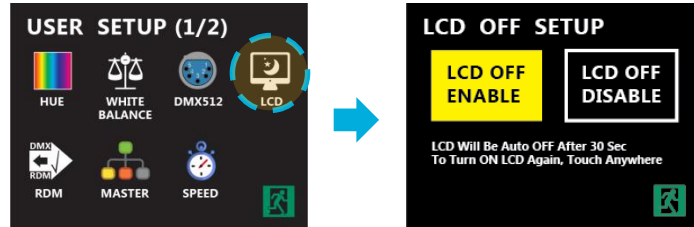
The name of the device is basically the model name and can be changed through RDM communication, but it can not be changed through Smart Touch LCD.

When changing the name of the device through RDM, enter the device name(English) and the management number in the 'Device Label' field. The entered contents are displayed in the upper left corner. The fixture ID is automatically displayed in 3 digits from automatically recognized 3 digits in contents. If user do not enter any number, the fixture ID is displayed as '001'.

	Example-1	Example-2	Example-3	Example-4
Input(Device Label)	HORI123	HORI	HORI1234	STUDIO13-23
Fixture Name	HORI123	HORI	HORI1234	STUDIO13-23
ID Number	123	001	234	023

# [Setting] LCD Off Setup & LCD Rotation Setup

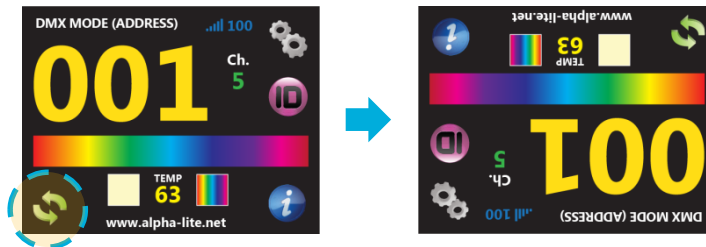
## ■ LCD Off Setup




Touch '**LCD Off Setup**' on the setting screen to display the above selection screen.

- LCD Off Enable : The screen automatically turns off after 30 seconds, if there is no touch operation.
- LCD Off Disable : The screen stays on all the time. (Default)

## ■ LCD Rotation Setup

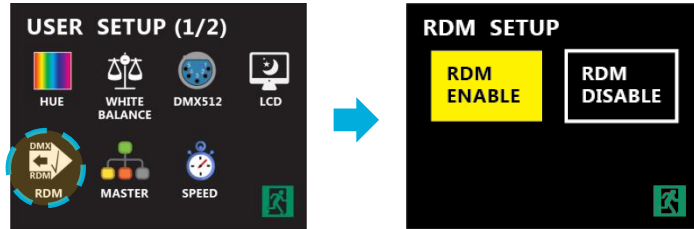


Each time touch  on the main screen, the screen rotates 180 °.

It is used to change the direction of the LCD screen according to the installation direction of the fixture.

# [Setting] RDM & Dimming Speed Setup

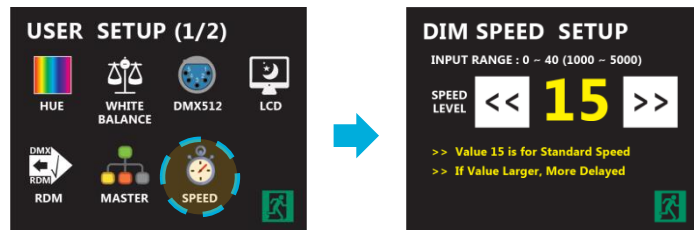
## ■ RDM Setup



Touch '**RDM Setup**' on the setting screen to display the above selection screen.

- RDM Enable : Enable RDM communication function.
- RDM Disable : Disables RDM communication function. (Default)

## ■ Dimming Speed Setup

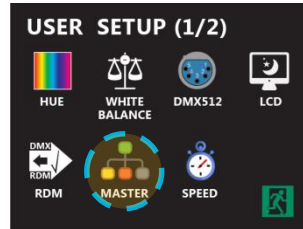


Touch '**Speed Setup**' on the setting screen to adjust the dimming speed value.

0~40 can be set by touching the arrows. The larger the number, the slower the dimming speed.

# [Setting] Master & Wireless Setup

## ■ Master Setup



Touch '**Master Setup**' on the setting screen to display the above selection screen.

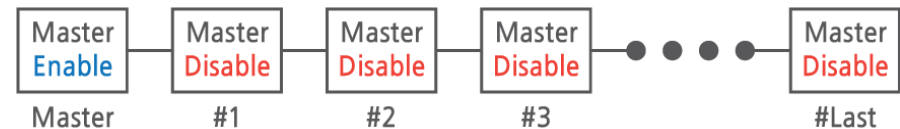
Master setting allows user to synchronize and control all fixtures without a console connection

- Master Enable : Enable Master function.
- Master Disable : Disables Master function. (Default)

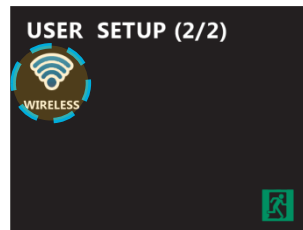
## ★ Master Setting Precautions

1. Remove the DMX IN connection.
2. In the same network, set only one equipment to master.
3. Set all equipment to the same channel mode as Master
4. After setting the master, individual operation of non-master equipments may cause error.

Ex)



## ■ Wireless Setup (Setting available only upon order)



Touch '**Wireless Setup**' on the setting screen to display the left selection screen.

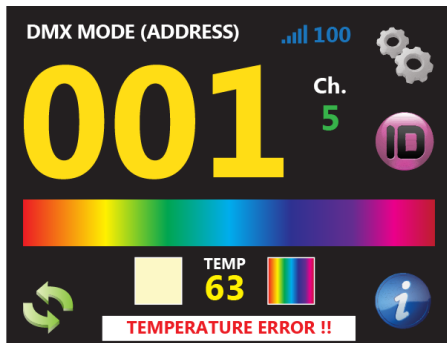
- Wireless Enable : Enable wireless DMX512 mode
- Wireless Disable : Enable DMX512 mode, or disable wireless DMX512 mode. (Default)
- Unlink Wireless : Unlink or disconnect the wireless module.

## Error Information

### Temperature Sensor

Detects the temperature of the current fixture(LED, drive, housing) and displays it on the Smart Touch LCD screen. 0°C or less is white, 0~69°C is yellow, and 70°C or more is red. If the temperature exceeds 78°C, 'Temperature Error !!' and 'Please Check Device !!' will be repeatedly displayed, and the actual LED output will be 60%. If it exceeds 85°C, the actual LED output will be 0%.

The error messages are only displayed on the main screen and the fixture ID screen, and even if the temperature falls to the normal range, It does not disappear. In this case, normalize the temperature of the equipment and restart it.



### Network Connection

When the DMX512 network connection is lost, the DMX512 address number in main screen and the fixture ID number blink. Check the connection and reconnect.

## Mode & DMX Channel (CYC400/500/800)

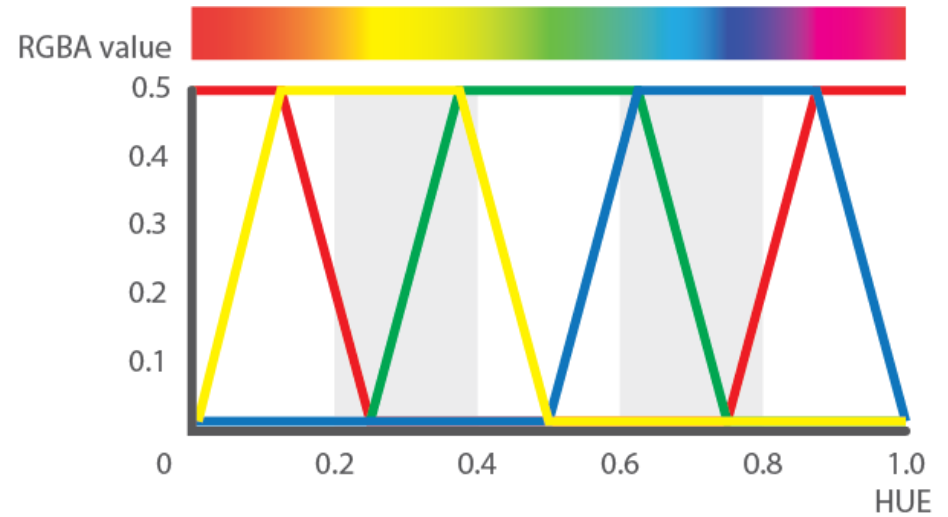
Mode	Channel	Value	%	Function
2 CH	1	0-255	0-100	Dimmer
	2	0-255		Color Macro
5 CH	1	0-255	0-100	Red
	2	0-255	0-100	Green
	3	0-255	0-100	Blue
	4	0-255	0-100	Amber
	5	0-255	0-100	White
6 CH	1	0-255	0-100	Dimmer
	2	0-255	0-100	Red
	3	0-255	0-100	Green
	4	0-255	0-100	Blue
	5	0-255	0-100	Amber
	6	0-255	0-100	White
8 CH	1	0-255	0-100	Dimmer
	2	0-255	0-100	Red
	3	0-255	0-100	Green
	4	0-255	0-100	Blue
	5	0-255	0-100	Amber
	6	0-255	0-100	White
	7	0-255		Color Macro
	8	0-255		Strobe



# Color Macro & Light Distribution

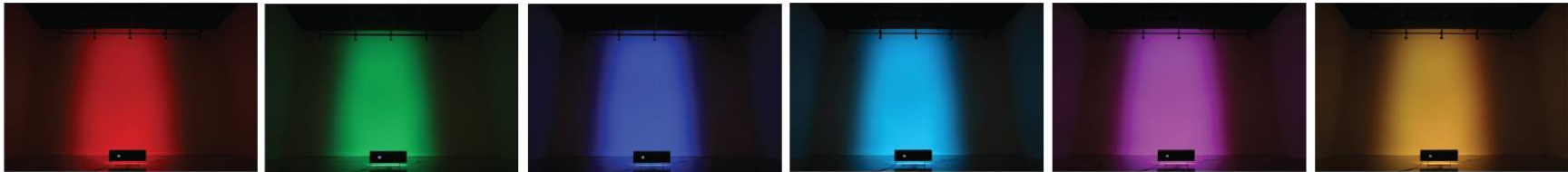
## ■ Color Macro

Color Macro express rainbow gradation effect.  
The order is Red -> Amber -> Green -> Blue.



## ■ Light Distribution


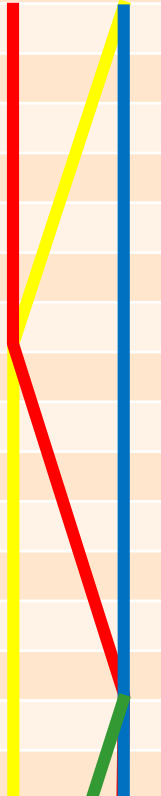
6m(w) x 8m(h)


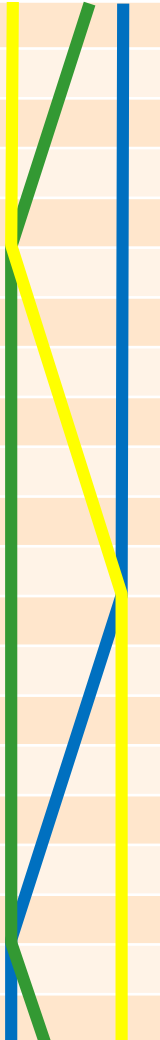



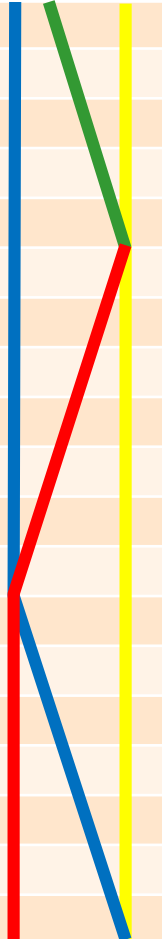
12m(w) x 8m(h)



## DMX 프로토콜

DMX Value	Color Value	Color Macro
1~6	3200K	
7~12	4500K	
13~18	5600K	
19~24	7000K	
25~30	10000K	
31~34		
35~38		
39~42		
43~46		
47~50		
51~54		
55~58		
59~62		
63~66		
67~70		
71~74		
75~78		
79~82		
83~86		
87~90		
91~94		

DMX Value	Color Value	Color Macro
95~98		
99~102		
103~106		
107~110		
111~114		
115~118		
119~122		
123~126		
127~130		
131~134		
135~138		
139~142		
143~146		
147~150		
151~154		
155~158		
159~162		
163~166		
167~170		
171~174		
175~178		

DMX Value	Color Value	Color Macro
179~182		
183~186		
187~190		
191~194		
195~198		
199~202		
203~206		
207~210		
211~214		
215~218		
219~222		
223~226		
227~230		
231~234		
235~238		
239~242		
243~246		
247~250		
251~255		

## RDM Protocols(1/3)

Parameter ID	Discovery command	SET command	GET command
DISC_UNIQUE_BRANCH	YES		
DISC_MUTE	YES		
DISC_UN_MUTE	YES		
DEVICE_INFO			YES
SUPPORTED_PARAMETERS			YES
SOFTWARE_VERSION_LABEL			YES
DMX_START_ADDRESS		YES	YES
IDENTIFY_DEVICE		YES	YES
DEVICE_MODEL_DESCRIPTION			YES
MANUFACTURER_LABEL			YES
DEVICE_LABEL		YES	YES
SENSOR_DEFINITION			YES
SENSOR_VALUE			YES
DMX_PERSONALITY		YES	YES
DMX_PERSONALITY_DESCRIPTION			YES
STATUS_MESSAGES			YES

### Lamp Controls

No.	Control Property	Value (Example)	Description	User Settings	Remarks
1	Identify On	N/A	Device identification action active	Enable	Identify device = Same as On
2	Identify Off	N/A	Device identification action inactive	Enable	Identify device = Same as Off
3	Cold Reset	N/A	Device reset(restart)	Enable	Same as Warm reset
4	Warm Reset	N/A	Device reset(restart)	Enable	Same as Cold reset

## RDM Protocols(2/3)

No.	Device Property	Value (Example)	Description	User Setting	Remarks
1	Device Model Description	CYC500	Model number of the device	Disable	
2	Manufacturer Label	ALPHA LITE	Name of the manufacturer	Disable	
3	Device Label	HORI123	Fixture name and management number	Enable	ex) Input : HORI123 ► Name : HORI123 ► Management # : 123 - Automatic recognition of up to 3 digits. If there is no number, the default is '001'.
4	Software Version Label	M0E-v1.10- v5.27-180928	Software version	Disable	
5	DMX Personality	1 Ch. Mode	DMX channel mode and color temperature setting	Enable	See (Table 1)
6	DMX Start Address	1	DMX address	Enable	1~512 Range
7	Device Hours	N/A		N/A	Display only, no actual response.
8	Lamp Hours	N/A		N/A	Display only, no actual response.
9	Lamp State	N/A		N/A	Display only, no actual response.
10	Lamp On Mode	N/A		N/A	Display only, no actual response.
11	Display Invert	On	LCD screen display direction	Enable	► Off : 0° ► On : 180° ► Auto : Current opposite direction
12	Identify Device	Off	Selected fixture blinking indication	Enable	► Off : Deactivates blinking ► On : Activates blinking
13	Speed Set	15	Dimming delay Setting	Enable	0~40 range The larger the value, the slower the dimming.
14	Display Mode	0	Normal screen / Fixture ID screen transitions	Enable	► 0 : Normal screen ► 1 : Fixture ID screen
15	Max. Temp	75	Fixture maximum temperature display	Enable	Use for initialization if necessary

## RDM Protocols(3/3)

### Sensor

No.	Device Sensors	Value (Example)	Description	User Setting	Remarks
1	Sensor Temp	64 °C	Current fixture temperature	Disable	

### Error Message

No.	Condition	Level	Description	Display
1	Sensor Over Temp	Warning	Fixture temperature 78 ~ 85°C	Orange message
2	Sensor Over Temp	Error	Fixture temperature over 85°C	Red message

Table 1.

Model	Value	Description
4 Ch. Model Device (CYC400/500/800)	2 Ch. Mode	2 Ch. Mode
	5 Ch. Mode	5 Ch. Mode
	6 Ch. Mode	6 Ch. Mode
	8 Ch. Mode	8 Ch. Mode



**LED Intelligent Lighting Solution**

**For more information and questions,  
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