ALPHA LITE

LED LIGHTING FOR UHD BROADCASTING
EST.2008

June 2020

BASE LIGHT
A-Plus SERIES

USER MANUAL

ALPHA LITE

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.

6. The brightness and color temperature before and after aging may be different.

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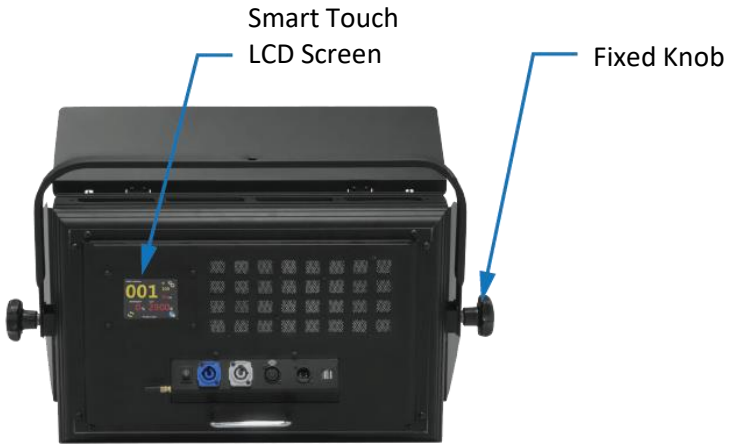
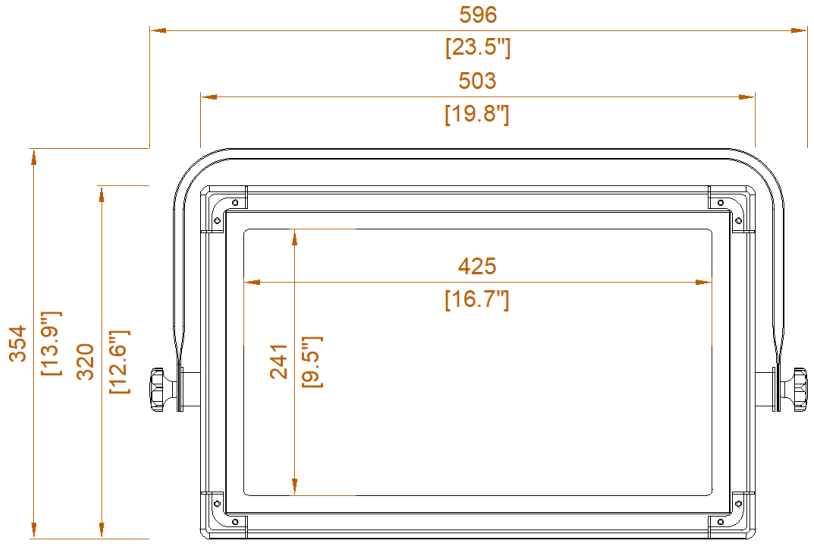
ALPHA LITE

- Flat light source lighting fixture, which is mainly used in broadcast studio
- Excellent light quality, and average CRI 95~98 / R9, R12 are CRI 90 or higher
- Light that does not expose the light source, with less glare, evenly and extremely soft light distribution
- High efficiency and light saturation by using Micro diffusing lens, and excellent photometric flatness
- 2500~10000K color temperature control function
- R, G, B Full Color LEDs are combined to create a scene for all acting parts and a variety of atmospheres
- Support RDM network communication and various mode setting possible
- Smart touch control method makes it easy and convenient to check all information at a glance
- When the DMX signal is shorted, the last signal is maintained.
- Long life, reduce maintenance costs and power consumption.
- (Option) 2.4GHz Wireless DMX512 support available

Yoke

Connector Panel
Handle


Smart Touch LCD Screen
Fixed Knob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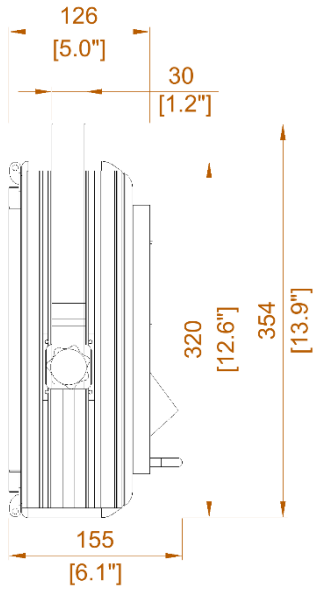
503
[19.8"]
354
[13.9"]
320
[12.6"]
425
[16.7"]
241
[9.5"]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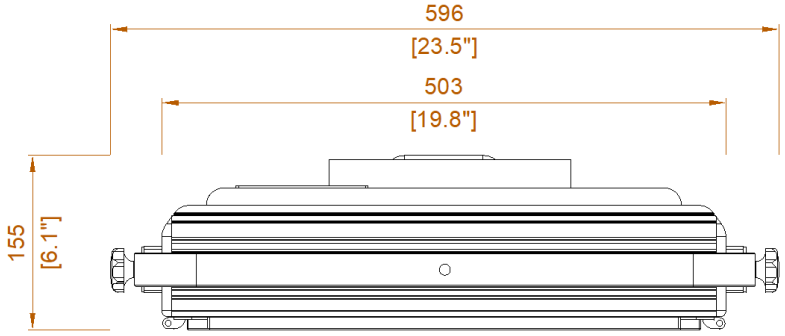
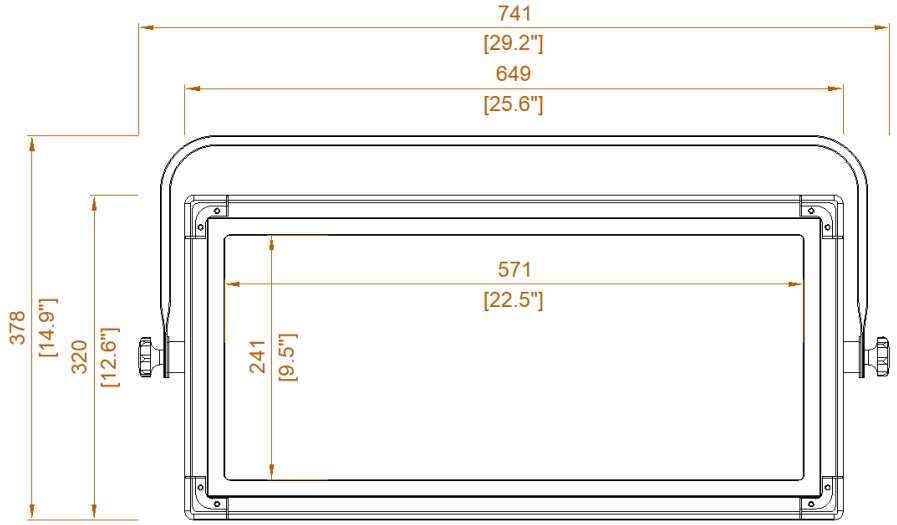
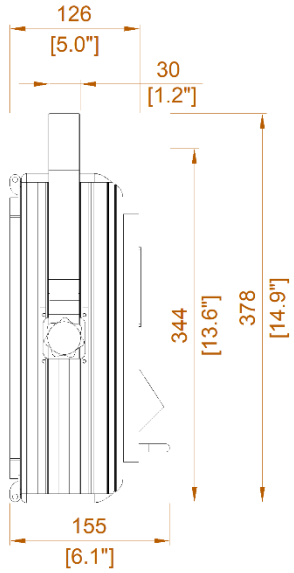
[6.1"]

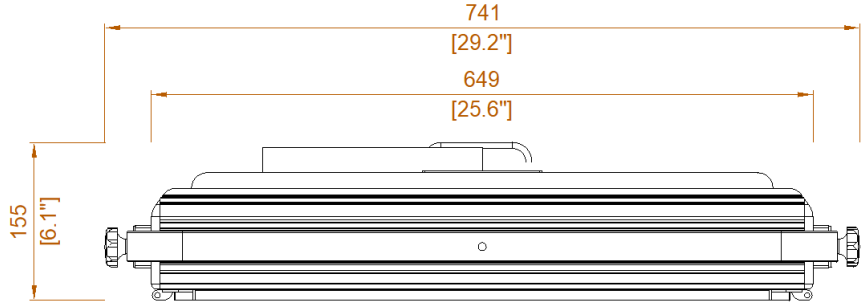

596
[23.5"]
503
[19.8"]
155
[6.1"]

mm
(inch)

Dimensions (A8-Plus)





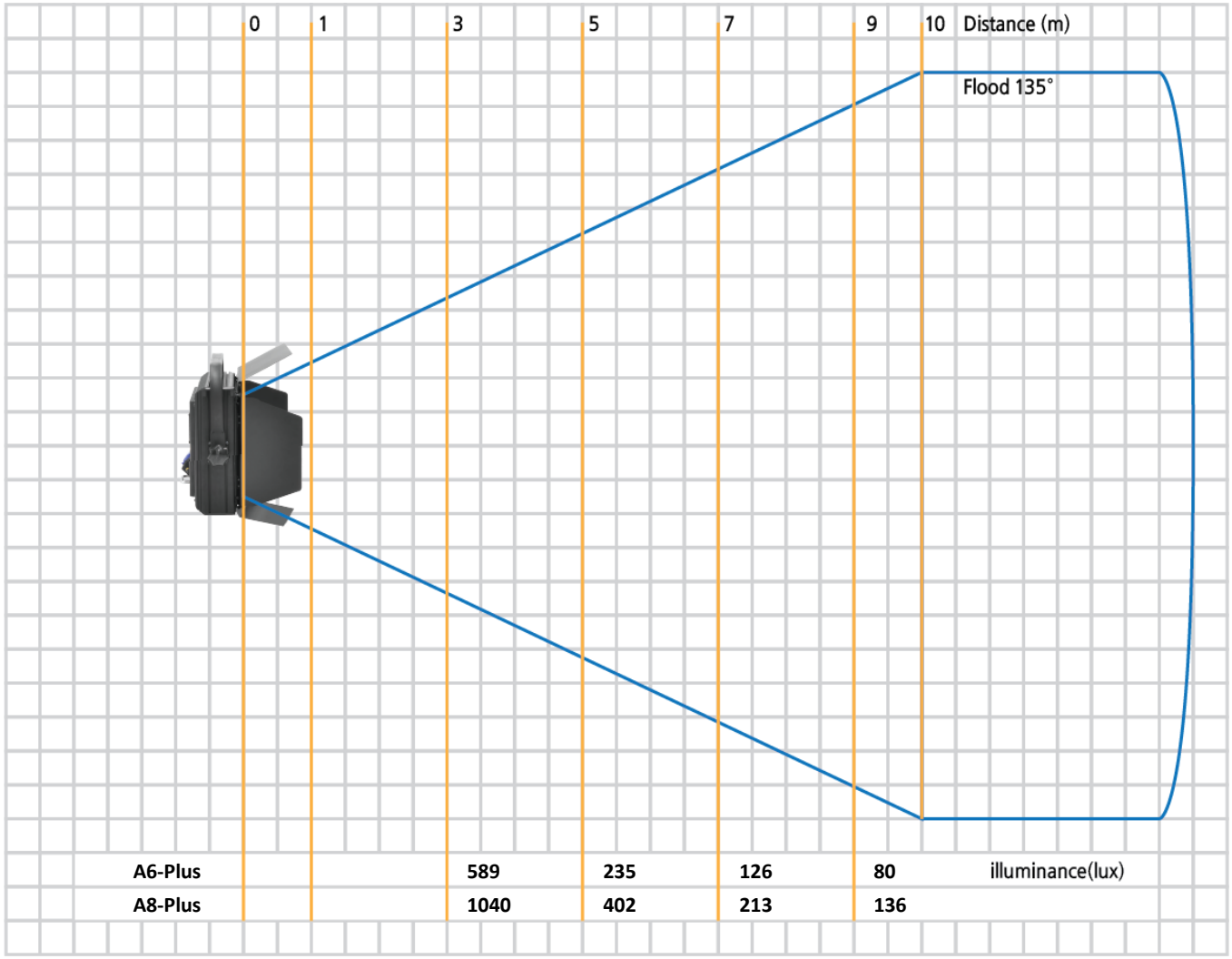


mm
(inch)

	A6-Plus	A8-Plus
Physical Size	635 x 378 x 155mm	714 x 378 x 155mm
Beam Angle	135°	
Weight (kg/lbs)	8.3 / 18.3	10.5 / 23.1
Handling	Adjusting Sliding Stirrup, High Strength Tilt Lock	
Mounting	16mm / 28mm	
Tilt Angle	±270°	
Power Supply Range	AC 100-240V, 50/60Hz	
Power Consumption	300W	400W
White Light (CCT)	Full 2,500~10,000K (VCT)	
Colored Light	Full RGB+W (4 Color gamut with Hue and Saturation control)	
CRI	95~98	
TLCI	95~98	
Dimming	0~100% 16-bit	
CCT Deviation	±100K	
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	

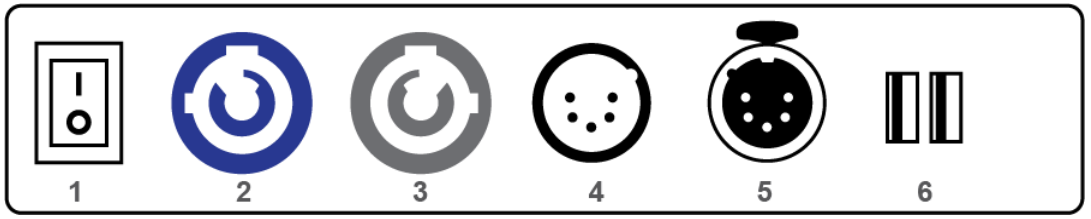
- This specification data is based on the aging state of the equipment, and the brightness and color temperature before and after aging may be different .

ALPHA LITE



A6-Plus			589	235	126	80	illuminance(lux)
A8-Plus			1040	402	213	136	

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 Firmware Update)
   (Do not connect USB
   without administrator's permission.)

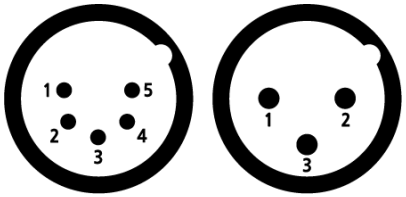
1. Observe the proper voltage range
2. If power is supplied outside the range, noise may be generated from the SMPS.
3. If the operating voltage is out of the proper voltage range,
   SMPS function may be degraded or damaged.

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

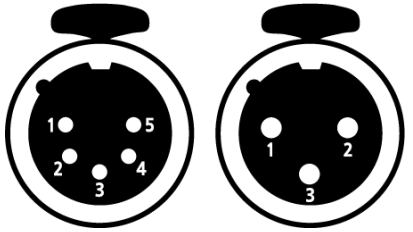
1-Shield
2-Signal (-)
3-Signal (+)
4-Not Connected
5-Not Connected



DMX-OUTPUT

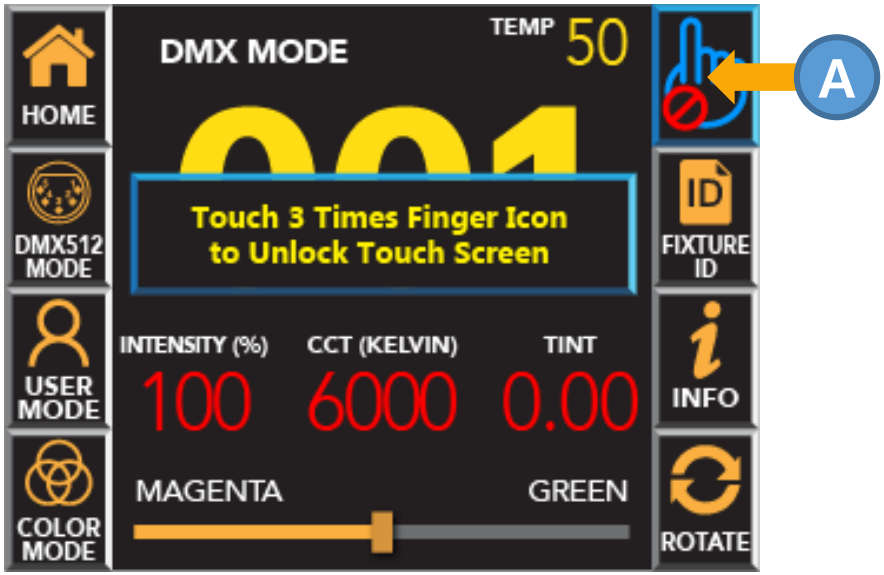
XLR Mounting-sockets

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

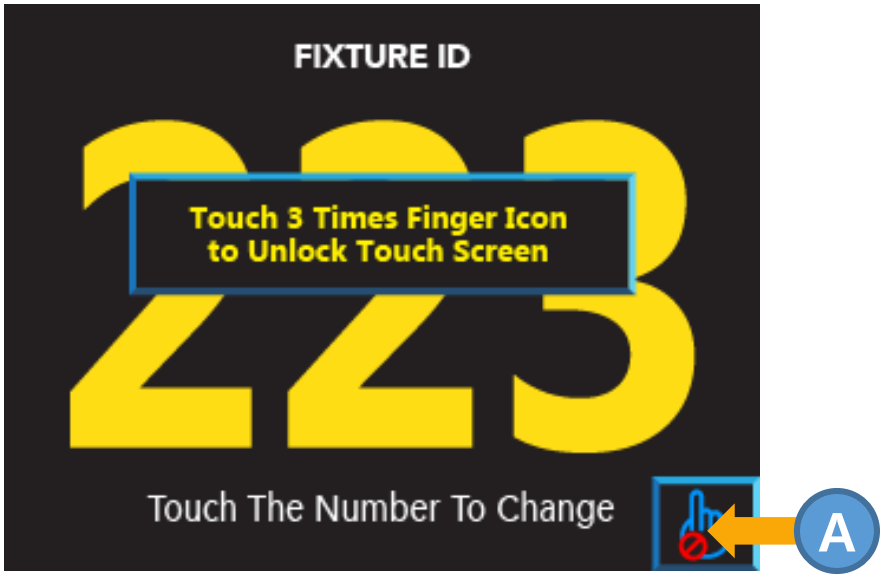


Connect the DMX output of the first lighitng fixture in DMX chain to the DMX input of the next fixture, and connect one output to the input of the next fixture until all fixtures are connected.

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



Main Screen (Locked)

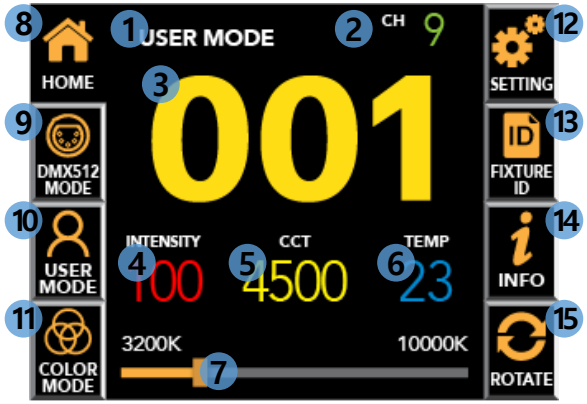


Fixture ID Screen (Locked)

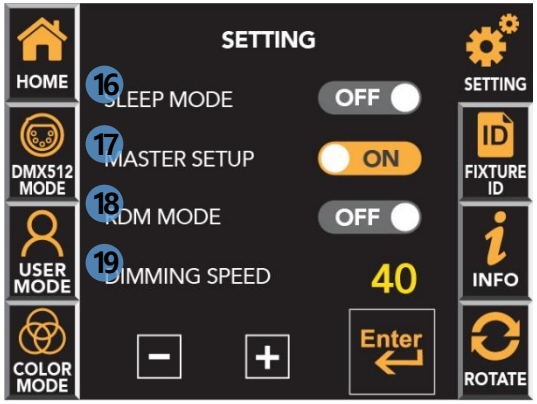
When the fixture is turned on, the Smart Touch screen automatically locked.

To unlock the touch screen, touch the finger icon(A) three times.

If you do not touch for 30 seconds, the lock is reset.



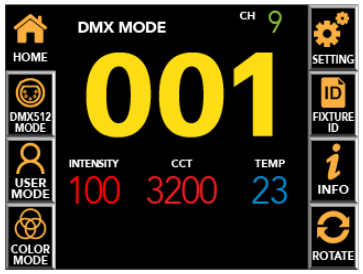
Main Screen (Unlocked)



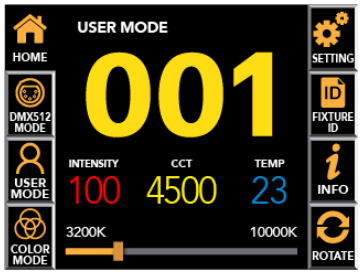
Setting Screen

1	**Current Mode**	Display DMX MODE or USER MODE or COLOR MODE.
2	**Current Channel Mode**	Display current channel mode (only display on DMX MODE)
3	**DMX512 Address**	Display current DMX512 Address.
4	**Brightness (Intensity)**	Displays the brightness value(0~100%) of the equipment.
5	**CCT (Correlated Color Temperature)**	Displays the color temperature(2500~10000K) of the equipment.
6	**Fixture Current Temperature**	The current temperature of the instrument is detected and displayed in ° C.
7	**Activated Function Control Bar**	Adjust the selected function among Intensity, Color Temperature and Tint.
8	**Home**	Return to the main screen
9	**DMX512 Mode & Address Setup**	Set channel mode and DMX512 address
10	**User Mode Setup**	Set 'Intensity', 'CCT', and 'Tint' manually
11	**Color Mode Setup**	Set 'RGB' lighting color, 'Saturation', and 'Intensity'
12	**Setting**	Setting or changing the function of the equipment.
13	**Fixture ID**	Displays numbers for equipment management.
14	**Equipment Information**	Displays the help that describes the screen.
15	**Screen Rotation**	LCD screen is rotated 180° for each touch.
16	**Sleep Mode Setup**	Activate and deactivate LCD Auto off function
17	**Master Setup**	Activate and deactivate Master function
18	**RDM Mode Setup**	Activate and deactivate RDM function
19	**Dimming Speed Setup**	Set dimming speed

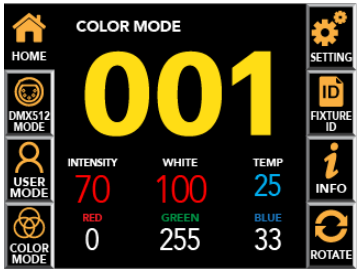
- Θ Home (Main screen)
  - Θ DMX512 Mode
    - DMX mode select
    - DMX address input
    - Θ Information
      - DMX channel value
  - Θ User Mode
    - Intensity setup
    - Color temperature setup
    - Tint setup
    - Θ Information
      - Description of each function
  - Θ Color Mode
    - RGB color setup
    - Saturation setup
    - White setup
    - Θ Full screen
      - Individual RGB setup and Preset
    - Θ Information
      - RGBW value
- Θ Setting
  - Sleep mode setup
  - Master function setup
  - RDM mode setup
  - Dimming speed setup
  - Θ Information
    - Description of each function
- Θ Fixture ID
  - Θ Fixture ID screen
    - Fixture ID number input
    - Θ Information
      - Description of fixture ID
- Θ Information
  - Basic equipment information
- Θ Rotate



(DMX MODE)

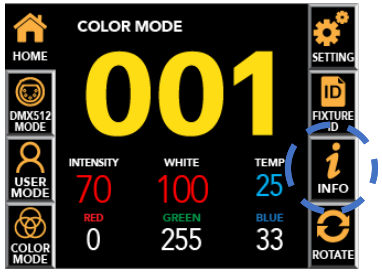


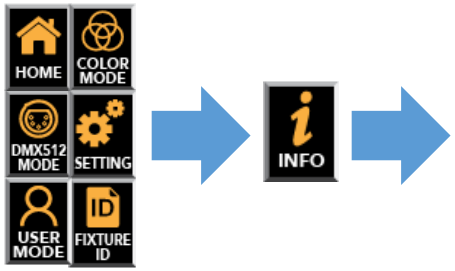
(USER MODE)



(COLOR MODE)

The current mode is displayed among DMX mode, user mode and color mode(not applicable model) in the upper left corner of the main screen, and the DMX address number of the equipment is displayed in the middle with a yellow number.
At the bottom, the current lighting value and fixture temperature are displayed, and some lighting value can be adjusted on the main screen by touching the value.

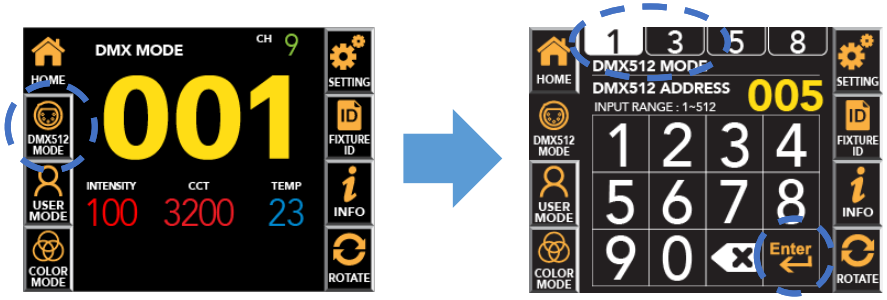




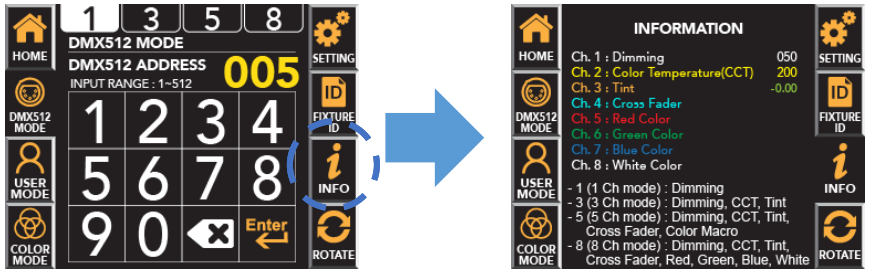
Description and function of each menu

User can check information such as manufacturer, product model name, firmware version, UID number, current temperature of equipment, usage time of equipment, LED usage time, website, manual download link, etc. by clicking the INFO button on the main screen.
Through each 'Menu – INFO' touch, user can check the menu description and functions

- DMX MODE : It is used to adjust by DMX512 signal.



User can move to the DMX channel change screen by selecting 'DMX512 MODE' button in main screen.
In DMX512 MODE screen, user can select DMX channel mode on top tap, and input DMX512 address by pressing the number pad.



*Support channels and features vary by product.

- 1 (1 Ch Mode) : Dimming
- 2 (2 Ch Mode) : Dimming, CCT
- 5 (5 Ch Mode) : Dimming, CCT, Cross Fader, Color Macro
- 8 (8 Ch Mode) : Dimming, CCT, Cross Fader, R, G, B, W

Pressing the Info button in DMX512 MODE, displays each channel information and value.
To return to the previous screen, press the Info button again.

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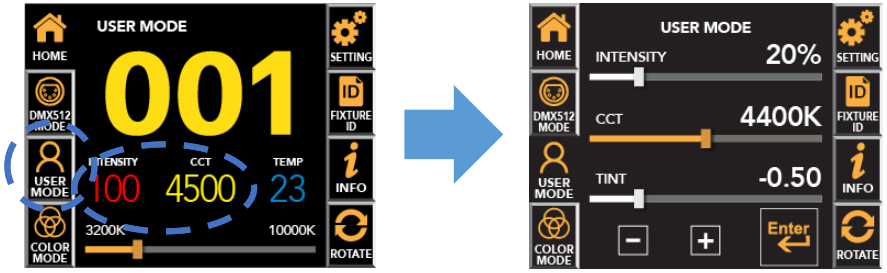
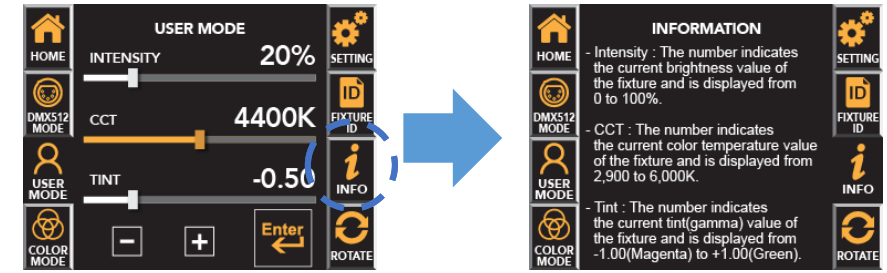
- USER MODE : It is used when the user directly manipulates the equipment.



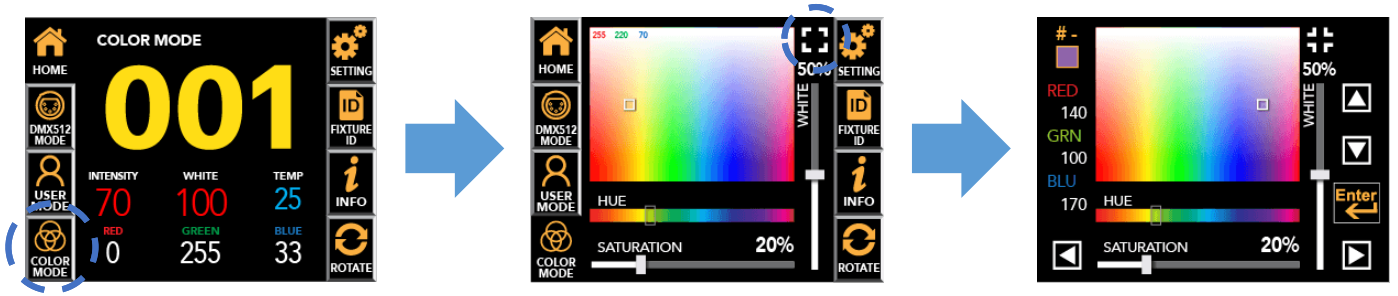
User can move to the User Mode change screen by selecting 'USER MODE' button
or press 'Current Intensity', 'Current CCT', 'Current Tint' in main screen to activate function control bar.
In USER MODE screen, select the bar user want to change to **activate(Orange color)**,
and can adjust the activated value by dragging.
Drag the activated bar close to the desired value, and then touch ⊞, ⊟ to set the exact value.



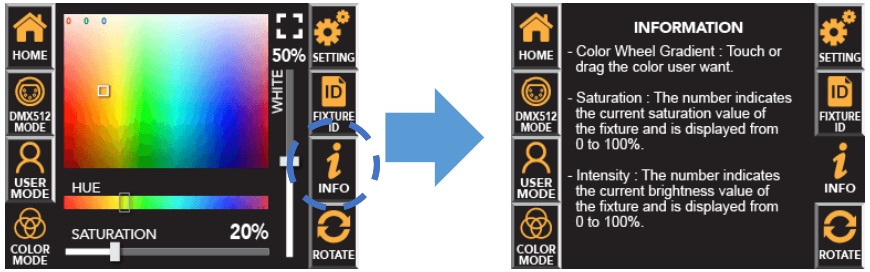
Pressing the Info button in USER MODE, displays description of each function.
To return to the previous screen, press the Info button again.

Intensity : The number indicates the current brightness value of the fixture and is displayed from 0 to 100%.
CCT : The number indicates the current color temperature value of the fixture and is displayed from 2,900 to 6,000K.
Tint : The number indicates the current tint(Gamma) value of the fixture and is displayed from -1.00(Magenta) to +1.00(Green).

- Color Mode : It is used when the user directly manipulates the equipment.

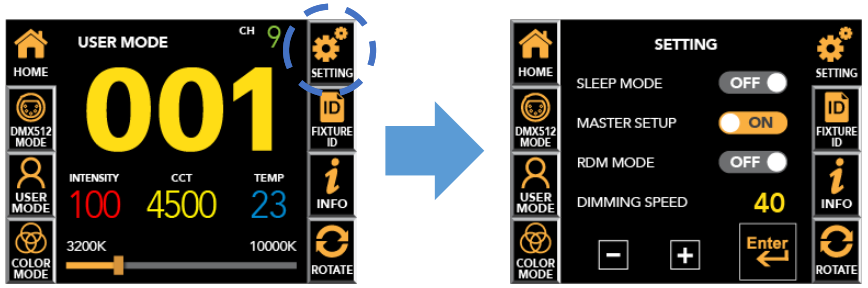


User can move to the Color mode change screen by selecting 'COLOR MODE' button in main screen.
In COLOR MODE screen, select the bar user want to change to **activate orange color**, and can adjust the activated value by dragging.
Individual RGB value adjustment and preset (#1~9) can be specified through the ⛶ button.
Fine adjustment of RGB values and the number of presets can be changed through the up, down, left and right arrows.
After adjusting the desired value, press 'Enter' to return to the COLOR MODE screen.

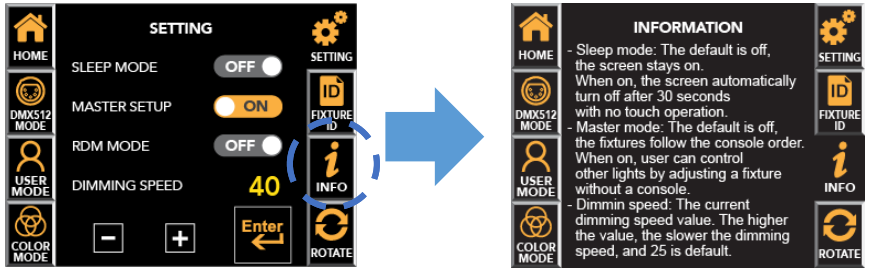


Pressing the Info button in COLOR MODE, displays description of each function.
To return to the previous screen, press the Info button again.

Color Wheel Gradient : Touch or drag the color user want.
Hue : Drag and select the Hue user want.
Saturation : The number indicates the current saturation value of the fixture and is displayed from 0 to 100%.
White : The number indicates the current White LED brightness value of the fixture and is displayed from 0 to 100%.



Additional settings besides the main icons can be setup by selecting SETTING button in main screen.
In SETTING, user can set SLEEP MODE, MASTER, RDM, and DIMMING SPEED features. Each time touch the SLEEP MODE, MASTER SETUP, RDM MODE user can select On or Off, and DIMMIN SPEED SETUP can be activated by touching, and press +, - to adjust the value.

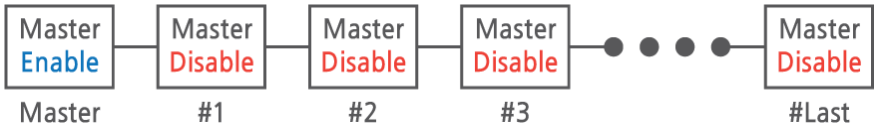


Pressing the Info button in SETTING, displays description of each function.
To return to the previous screen, press the Info button again.

★ Master Setting Precautions

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

Ex)

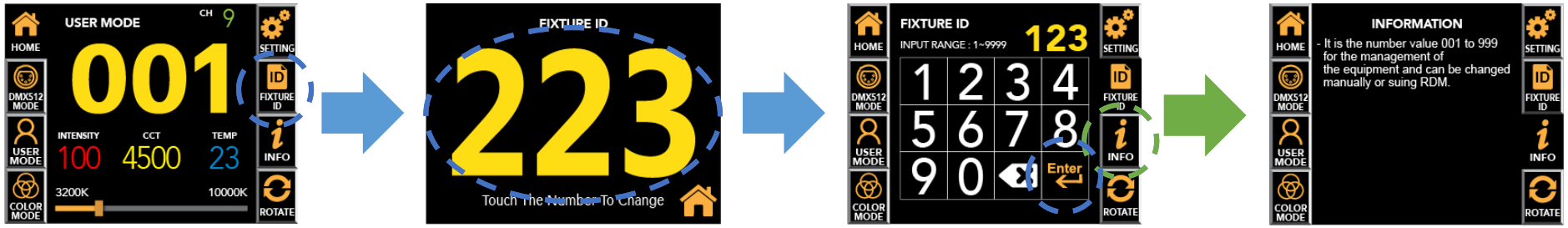


Sleep mode setup(Default=Off) : Set the feature that the screen automatically turn off after 30 seconds, if there is no touch operation. If Off, it is always on while power is on.

Master setup(Default=Off) : Set the feature that allows user to synchronize and control all fixtures without a console connection. If Off, the DMX signal will follow.

RDM setup (Default=On) : Set the feature that enables bi-directional wireless communication through RDM equipment. If Off, this equipment will not be searched on RDM equipment.

Dimming speed setup : The number indicates the current dimming speed value of the fixture and is displayed from 0 to 40. The higher the value, the slower the dimming speed, and '15' is default speed.

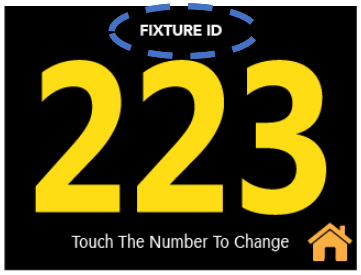


(Main Screen) (Fixture ID Screen) (Fixture ID Input window)

User can change the screen to Fixture ID and number by selecting FIXTURE ID button in main screen.
In FIXTURE ID, touch the large number to switch to the Fixture ID number(from 1 to 9999) input window.
Press the Enter to set the ID and switch to large number screen.
Press the Home button to go to the main screen.

Pressing the Info button in FIXTURE ID, displays description of the function.
It is the number value 001 to 9999 for the management of the equipment and can be changed manually or using RDM.

Fixture Label Setup



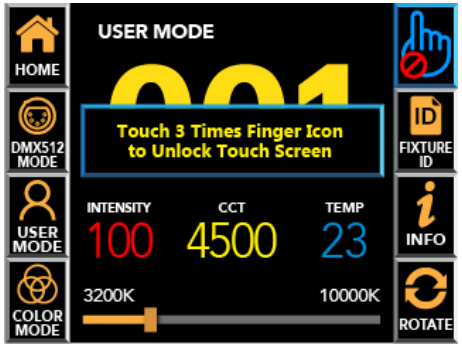
The label of the device is basically the model name, and it can be changed through RDM communication, but it can't be changed through the Smart Touch LCD.
When changing the label of the device through RDM, enter the device name(English) and the management number in the 'Device Label' field. The entered contents are displayed in the upper left corner.
The fixture ID is automatically displayed in 3 or 4 digits from automatically recognized 4 digits in contents.
If user do not enter any number, the fixture ID is displayed as '001'.

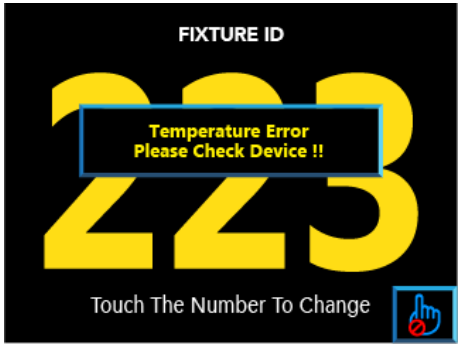
	Ex 1	Ex 2	Ex 3	Ex 4	Ex 5
Input(Device Label in RDM)	BASE123	BASE1234	BASE12345	BASE	STUDIO13-23
Fixture Label(in Fixture)	BASE123	BASE1234	BASE12345	BASE	STUDIO13-23
ID Number(in Fixture)	123	1234	2345	001	023

ALPHA LITE

Temperature Sensor

Detects the temperature of the current fixture(LED, drive, housing) and displays it on the Smart Touch LCD screen. 45˚C or less is cyan, 46~69˚C is yellow, and 70˚C or more is red.
If the temperature exceeds 75˚C, the actual LED output will decrease.
If it exceeds 85˚C, the actual LED output will be 0%, and 'Temperature Error Please Check Device !!' will be displayed.
The error messages are only displayed on the main screen and the fixture ID screen.
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.

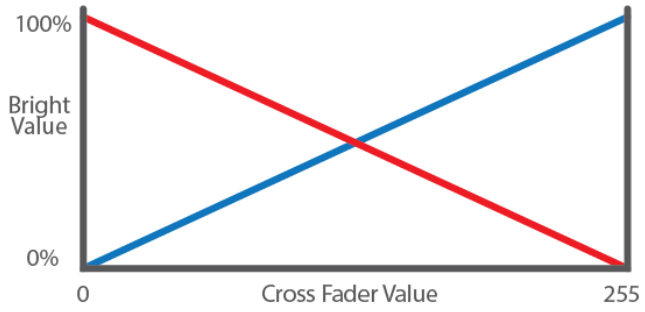




Network Connection

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.

■ Cross Fader



[In 4 or 7 channel mode]

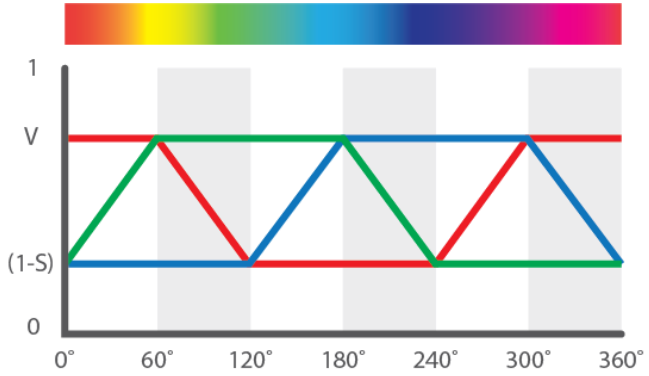
- When the DMX value of channel 3(Cross Fader) is 0, the set color temperature(CCT) is displayed by channel 2.

- When the DMX value of channel 3 is 255, only Red(channel 4), Green(channel 5), Blue(channel 6) and White(channel 7) color values are displayed.

- As the DMX value of channel 3(Cross Fader) increases, RGB and White values become darker.

- The DMX value of channel 3 adjusts relatively the brightness ratio of channel 2 and channel 4~7.

■ Color Macro



Channel 4 is Color Macro express rainbow gradation effect.
The order is Red -> Green -> Blue

Mode	Channel	DMX Value	%	Function
1	1	0~255	0~100	Dimmer
3	1	0~255	0~100	Dimmer
	2	0~255	0~100	Color Temperater(CCT)
	3	0~119 / 120~255	See DMX Protocols (3)	Tint
5	1	0~255	0~100	Dimmer
	2	0~255	0~100	Color Temperature(CCT)
	3	0~119 / 120~255	See DMX Protocols (3)	Tint
	4	0~255	0~100	Cross Fader
	5	0~255	0~100	Color Macro
8	1	0~255	0~100	Dimmer
	2	0~255	0~100	Color Temperature(CCT)
	3	0~119 / 120~255	See DMX Protocols (3)	Tint
	4	0~255	0~100	Cross Fader
	5	0~255	0~100	Red
	6	0~255	0~100	Green
	7	0~255	0~100	Blue
	8	0~255	0~100	White

DMX Value	Function
0~1	2500
2~3	2550
4~5	2600
6	2650
7~8	2700
9~10	2750
11	2800
12~13	2850
14~15	2900
16	2950
17~18	3000
19~20	3050
21~22	3100
23	3150
24~25	3200
26~27	3250
28	3300
29~30	3350
31~32	3400
33	3450
34~35	3500
36~37	3550
38~39	3600

DMX Value	Function
40	3650
41~42	3700
43~44	3750
45	3800
46~47	3850
48~49	3900
50	3950
51~52	4000
53~54	4050
55~56	4100
57	4150
58~59	4200
60~61	4250
62	4300
63~64	4350
65~66	4400
67	4450
68~69	4500
70~71	4550
72~73	4600
74	4650
75~76	4700
77~78	4750

DMX Value	Function
79	4800
80~81	4850
82~83	4900
84	4950
85~86	5000
87~88	5050
89~90	5100
91	5150
92~93	5200
94~95	5250
96	5300
97~98	5350
99~100	5400
101	5450
102~103	5500
104~105	5550
106~107	5600
108	5650
109~110	5700
111~112	5750
113	5800
114~115	5850
116~117	5900

DMX Value	Function
118	5950
119~120	6000
121~122	6050
123~124	6100
125	6150
126~127	6200
128~129	6250
130	6300
131~132	6350
133~134	6400
135	6450
136~137	6500
138~139	6550
140~141	6600
142	6650
143~144	6700
145~146	6750
147	6800
148~149	6850
150~151	6900
152	6950
153~154	7000
155~156	7050

DMX Value	Function
157~158	7100
159	7150
160~161	7200
162~163	7250
164	7300
165~166	7350
167~168	7400
169	7450
170~171	7500
172~173	7550
174~175	7600
176	7650
177~178	7700
179~180	7750
181	7800
182~183	7850
184~185	7900
186	7950
187~188	8000
189~190	8050
191~192	8100
193	8150
194~195	8200

DMX Value	Function
196~197	8250
198	8300
199~200	8350
201~202	8400
203	8450
240~205	8500
206~207	8550
208~209	8600
210	8650
211~212	8700
213~214	8750
215	8800
216~217	8850
218~219	8900
220	8950
221~222	9000
223~224	9050
225~226	9100
227	9150
228~229	9200
230~231	9250
232	9300
233~234	9350

DMX Value	Function
235~236	9400
237	9450
238~239	9500
240~241	9550
242~243	9600
244	9650
245~246	9700
247~248	9750
249	9800
250~251	9850
252~253	9900
254	9950
255	10000

Mode	DMX Value	Output Value	Function
3	0~10	0	No Effect
	11~20	(-)1.00	Full Magenta
	21~119	(-)0.99 ~ (-)0.01	99~1% Magenta
	120~145	0	No Effect
	146~244	(+)0.01 ~ (+)0.99	1~99% Green
	245~255	(+)1.00	Full Green

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

No.	Device Property	Value (Example)	Description	User Setting	Remarks
1	Device Model Description	A6-Plus	Model number of the device	Disable	
2	Manufacturer Label	ALPHA LITE	Name of the manufacturer	Disable	
3	Device Label	BASE123	Fixture name and management number	Enable	ex) Input : BASE123 ►Name : BASE123 ►Management # : 123 - Automatic recognition of up to 4 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

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 46 ~ 69˚C	Orange message
2	Sensor Over Temp	Error	Fixture temperature over 70˚C	Red message

Table 1.

Model	Value	Description
8 Ch. Model Device (Variable Color Temperature & RGB)	1 Ch. Mode	1 Ch. Mode
	3 Ch. Mode	3 Ch. Mode
	5 Ch. Mode	5 Ch. Mode
	8 Ch. Mode	8 Ch. Mode
	1 Ch. 2500K	1 Ch. Mode + 2500K Color Temperature
	1 Ch. 2900K	1 Ch. Mode + 2900K Color Temperature
	1 Ch. 3000K	1 Ch. Mode + 3000K Color Temperature
	1 Ch. 3500K	1 Ch. Mode + 3500K Color Temperature
	1 Ch. 4000K	1 Ch. Mode + 4000K Color Temperature
	1 Ch. 4500K	1 Ch. Mode + 4500K Color Temperature
	1 Ch. 5000K	1 Ch. Mode + 5500K Color Temperature
	1 Ch. 5600K	1 Ch. Mode + 5600K Color Temperature
	1 Ch. 6000K	1 Ch. Mode + 6000K Color Temperature
	1 Ch. 10000K	1 Ch. Mode + 10000K Color Temperature

ALPHA LITE

“Thank you”

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