

ALPHA LITE USER MANUAL BOOK



FS SERIES

FS1000 (COLOR)



Precautions

[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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Product name.

FS1000 (COLOR)

FS Series is SPOT lighting that uses a multi-focusing zoom lens based on ALPHA LITE's unique technology, and there is no yellowing phenomenon at the boundary of illuminated light by multifocal LED and no color temperature change by chromatic aberration.

FS Series uses a large-capacity/single light source to express the light source texture similar to the halogen lamp. Also, the boundary of the shadow is formed smoothly sharpness.

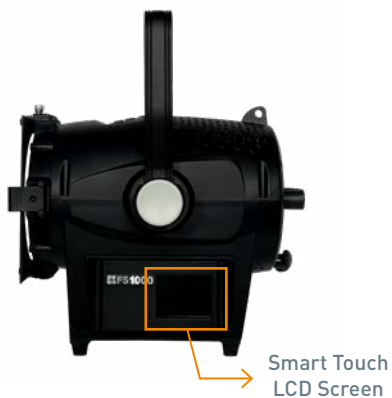
Beam cutting is excellent by adjusting the angle of the barn door.

FS Series is light weight compare to capacity, and designed sturdy housing.

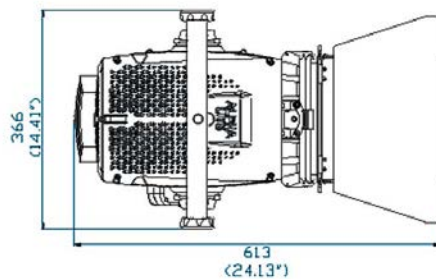
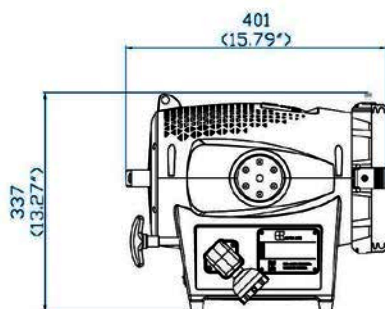
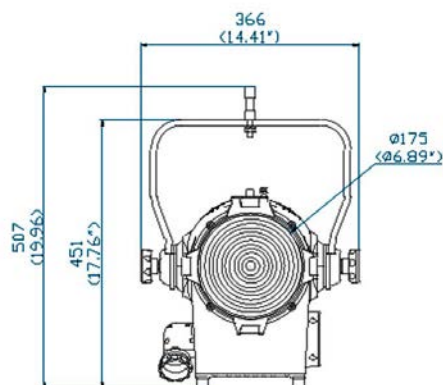
By applying the wireless DMX communication, user can easily set up lighting fixtures without a signal cable. The Smart Touch LCD controller can use functions such as intuitive operation and address display on the screen in consideration of user convenience.

Also, the housing is designed for easy maintenance and repair.

Fixture Exterior View



Dimensions



Accessory Options



Pole operation yoke

· Pan & Tilt



Jemball

· Detachable



Soft box

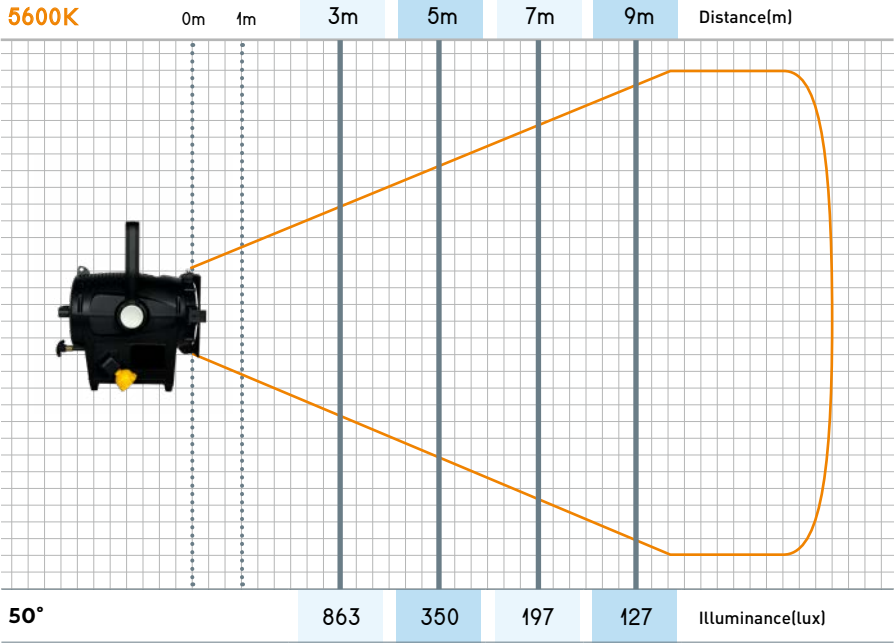
· Detachable

Technical Specifications

LED Chip Type	550W 3 Color + 2 White LED engine
Estimated LED Lifetime (hours)	50,000
White Light (K)	2,500~10,000 [VCT/FCT]
Full Color Light	Full RGB + Warm White + Cool White [4Color Gamut with Hue and Saturation Control]
Color Rendition (%)	CRI 95~99.5 / TLCI 95~99.5
Dimming (%)	0~100 [16-bit]
Lens Diameter (mm/inch)	170 / 6.7
Beam Angle (°)	15~55
Signal Control	5-Pin DMX In and Out
Individual Control	Smart Touch LCD Controller
Supported Protocol	DMX512 / RDM
(Optional) Supported Protocol	DMX512 Wireless / RDM Wireless
Remote Device Management	Supported
Channel Function	Dimming / CCT / Tint / RGB / Cross Fader / Strobe
Power Input Voltage	AC 100-240V / 50~60Hz
Power Consumption (W)	240
Ambient Temperature Operation (°C)	-20~45
Spigot Mounting (mm)	16 / 28
Tilt Angle (°)	+ / - 90
Body Dimensions (mm/inch) (WHD)	282 x 337 x 401 / 11.1 x 13.3 x 15.8
Full Dimensions with Manual Yoke (mm/inch) (WHD)	366 x 507 x 401 / 14.4 x 20 x 15.8
Body Weight (kg/lbs)	7.6 / 16.8
Full Weight with Manual Yoke (kg/lbs)	8.8 / 19.4
Protection Class	IP20

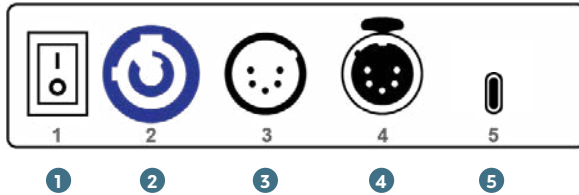
* This specification data is based on the aging state of the equipment, and the brightness and color temperature before and after aging may be different.

Photometry Data



Power Connection

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



① POWER ON/OFF SWITCH

② POWER IN

③ DMX IN

④ DMX OUT

⑤ C-TYPE PORT
(for ADMINISTRATOR ONLY)

※ Do not connect USB without
administrator's permission.

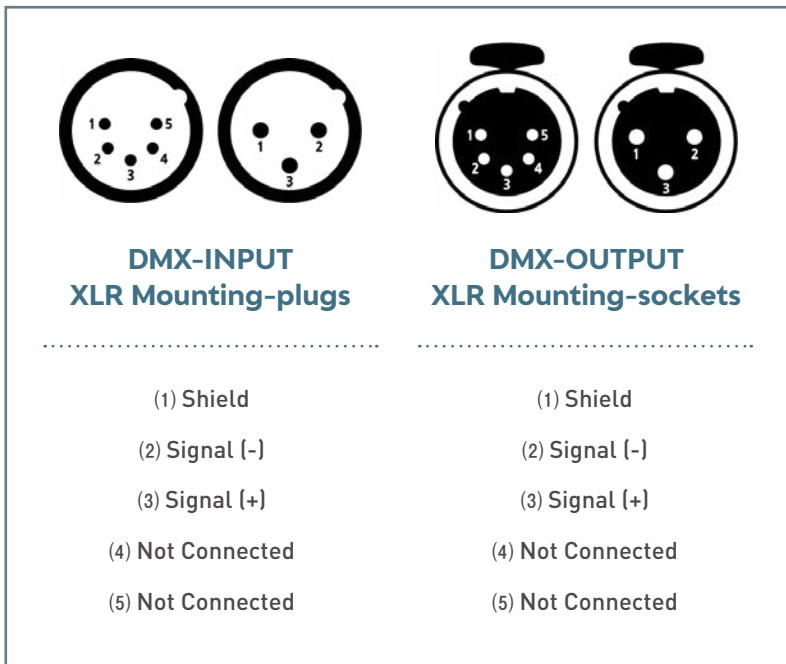
- ⚠ WARNING**
1. Observe the proper voltage rang.
 2. If power is supplied outside the range, noise may be generated from the SMPS.
 3. If the operating voltage is out of the proper voltage range, SMPS function may be degraded or damaged.

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.

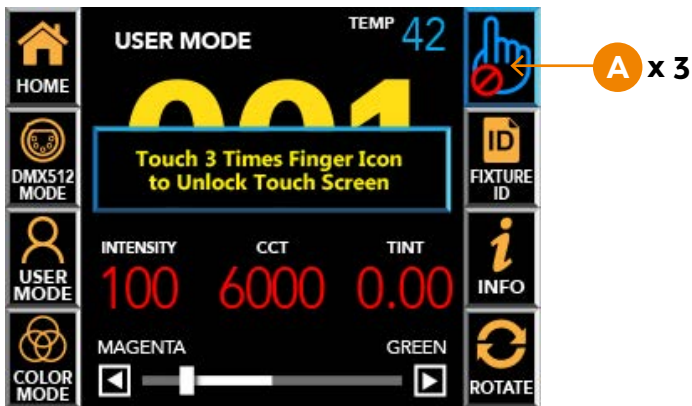


- ⚠ WARNING**
1. Connect the DMX output of the first lighting fixture in DMX chain to the DMX input of the next fixture.
 2. Connect one output to the input of the next fixture until all fixtures are connected.
 3. In the last lighting fixture, the DMX cable must be end with a terminator(120 Ω resistor) in DMX output signal (+, -).

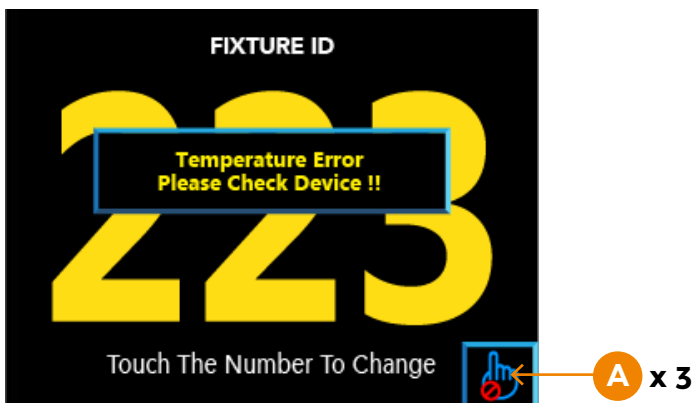
Unlocking

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 (Locked)]

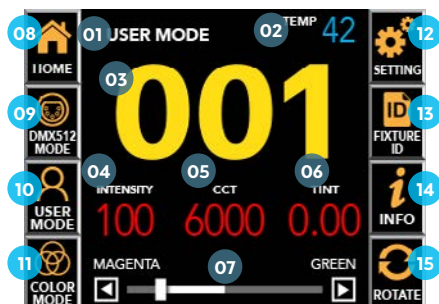


[Fixture ID Screen (Locked)]

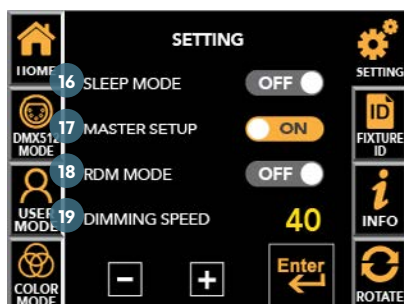


Screen Instructions

[Main Screen (Unlocked)]

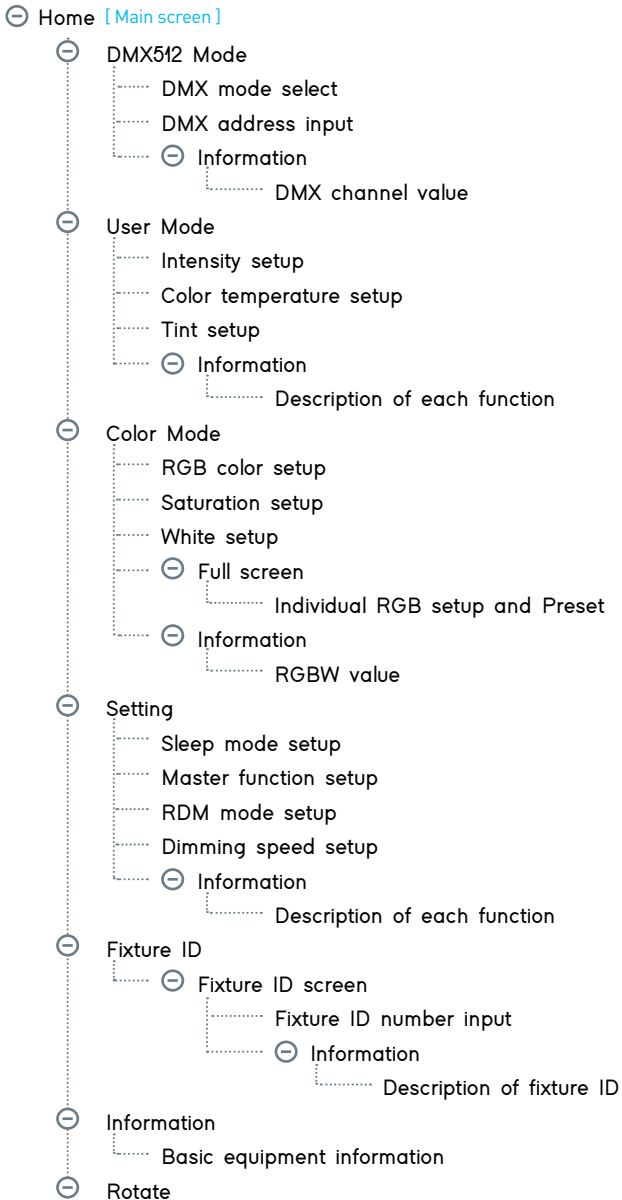


[Setting Screen]



01	Current Mode	Display DMX MODE or USER MODE or COLOR MODE.
02	Fixture Current Temperature	The current temperature of the instrument is detected and displayed in °C.
03	DMX512 Address	Display current DMX512 Address.
04	Brightness (Intensity)	Displays the brightness value(0~100%) of the equipment.
05	CCT (Correlated Color Temperature)	Displays the color temperature(2,500~10,000K) of the equipment.
06	Tint(Gamma)	Displays the tint value(-1.00~+1.00) of the equipment.
07	(In USER MODE) Activated function control bar	Adjust the selected function among Intensity, Color Temperature and Tint.
	(In DMX MODE) Current channel mode	Display current channel mode. *Only display on DMX MODE
08	Home	Return to the main screen
09	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

Menu Tree



Main Screen by Mode & Product Information

001 Main Screen by Mode Information

HOME

DMX MODE

USER MODE

COLOR MODE

The current mode is displayed in the upper left corner of the main screen among DMX mode, user mode and color mode, 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.

[DMX MODE]



[USER MODE]



[COLOR MODE]



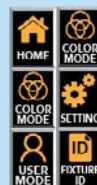
Product Information

HOME

INFO

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.

Each 'MENU' ► Touch the 'INFO' ► User can check the menu description and functions.



DMX Mode Channel Change & Address Setup

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

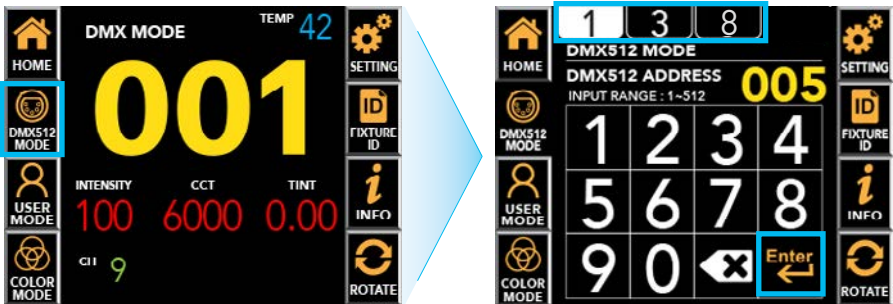
HOME

DMX512 MODE

Move to the DMX channel change screen.

In DMX512 MODE screen, user can select DMX channel mode on top tap.

▶ Input DMX512 address by pressing the number pad.

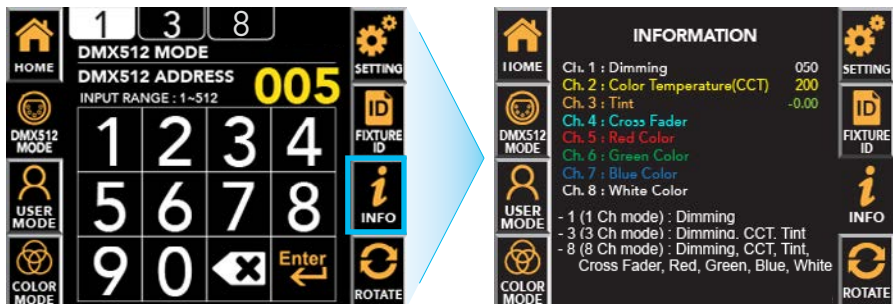


DMX512 MODE SCREEN

INFO

Displays each channel information and value.

※ To return to the previous screen, press the 'INFO' button again.



Information

- 1 (1 Ch Mode) : Dimming
- 3 (3 Ch Mode) : Dimming, CCT, Tint
- 8 (8 Ch Mode) : Dimming, CCT, Tint, Cross Fader, Red, Green, Blue, Strobe

* Support channels and features vary by product.

User Mode Setup & Intensity / CCT / Tint Adjust

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

HOME

USER MODE

Move to user-operable screen to change Intensity/CCT/Tint.

OR

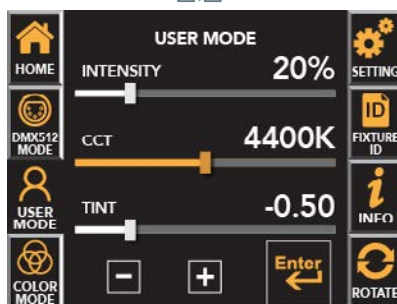
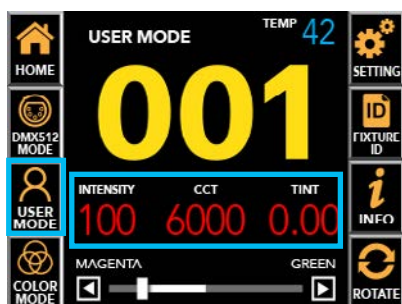
'Current Intensity'
'Current CCT'
'Current Tint'

Activate control bar and adjust value directly
according to selected function.

※ In DMX mode, even if you press the current value on the main screen,
the bottom bar is not active.

USER MODE screen ▶ Touch the function you want to change ▶ **Active in Orange** ▶
Adjust the value with touch or drag.

Drag the activated bar close to the desired value,
and then touch \uparrow , \downarrow to set the exact value.

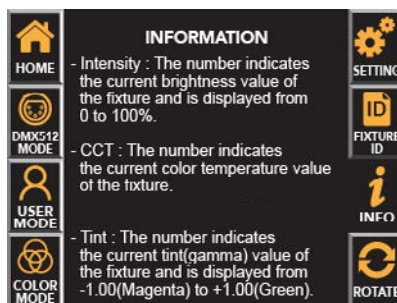
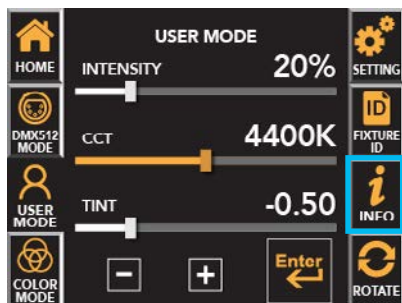


USER MODE SCREEN

INFO

Displays description of each function.

※ To return to the previous screen, press the 'INFO' button again.



Information

- 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 2,500~10,000Kelvin.
- 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 Setup & RGB / Hue / Saturation / White Adjust

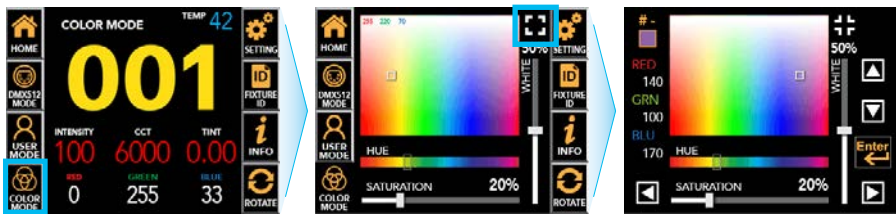
COLOR MODE : It is used when the user directly manipulates the equipment.

HOME → COLOR MODE → Move to user-operable screen to change Hue/Saturation.

COLOR MODE screen ▶ Touch the function you want to change ▶ **Active in Orange** ▶ Adjust the value with touch or drag.

- Individual RGB value adjustment and saving 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' ▶ It returns to the COLOR MODE screen.

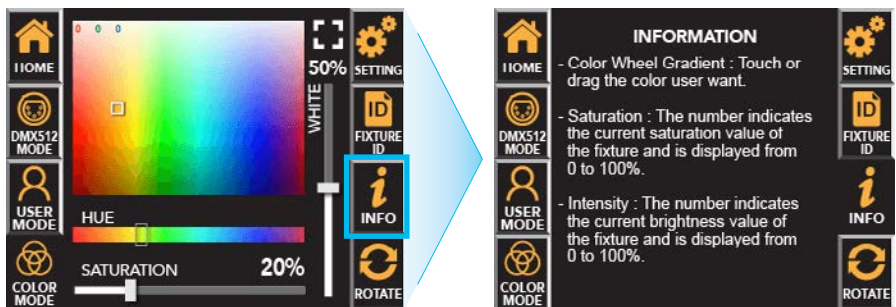


COLOR MODE SCREEN →

INFO

Displays description of each function.

※ Press the INFO button again to return to the 'COLOR MODE' screen.



Information

- **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%.

Extra Function

- Sleep Mode / Master / RDM / Dimming Speed

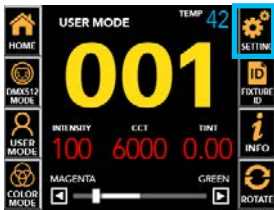
HOME

SETTING

Move to additional settings other than the main icon.

SETTING screen ► Touch ON/OFF the function you want to change among SLEEP MODE, MASTER, and RDM MODE ► **Active in Orange** ► Set ON/OFF

- DIMMING SPEED SETUP can be activated by touching, and press **+**, **-** to adjust the value.

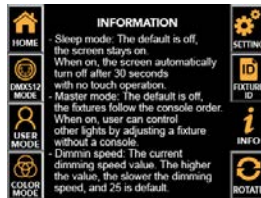


SETTING SCREEN

INFO

Displays description of each function.

※ Press the INFO button again to return to the setting screen.



Information

- **Sleep mode setup (Default=Off)** The function to automatically turn off the screen when there is no operation for 30 seconds. If OFF, it is always on the screen while power is on.
- **Master setup (Default=Off)** The function to synchronize and user control all connected fixtures without a console connection. If OFF, the DMX signal will follow.
- **RDM setup (Default=On)** The function to enable two-way wireless communication through RDM equipment. If OFF, it is not detected by 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.

Extra Function

- Sleep Mode / Master / RDM / Dimming Speed

Master Setup

- The master slave function allows to synchronize and control all connected lighting fixtures through the DMX signal without a console connection.
- If a problem occurs in the console or communication line, it is possible to control the brightness and CCT and color with only the lighting fixture.
- Main screen ► Setting ► Touch MASTER SETUP, the function turns on. (2 Touch)
- Functions available with one setting of the first lighting fixture.

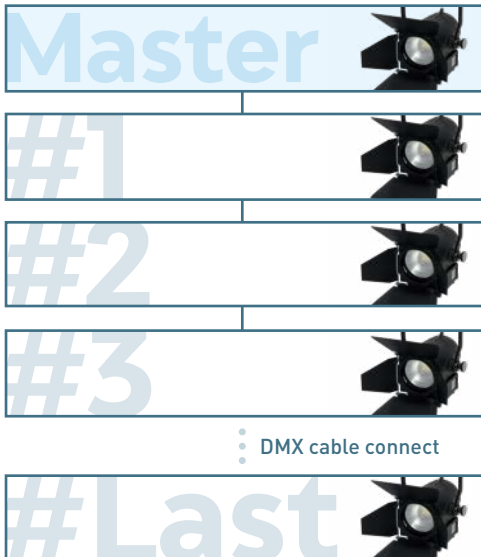
[Main Screen]



[Fixture ID Screen]



ex



- Remove 'DMX in' cable.
- Set '**Master Enable**'
- Set the same channel mode.
- Operation After setting.

- Connecting 'DMX in & out' cable.
- Set '**Master Disable**'
- Set the same channel mode.
- No operation after setting.

Fixture ID & Label Setup

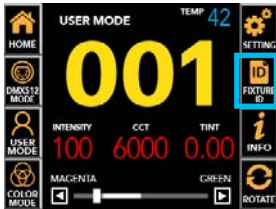
HOME

FIXTURE ID

Move to fixture management number setting screen.

Move to input screen that can change the number ► Input the desired number 001 to 9999 and press Enter ► Move to the FIXTURE ID screen that displays the large size entered value ► Touch HOME icon to go back to the main screen.

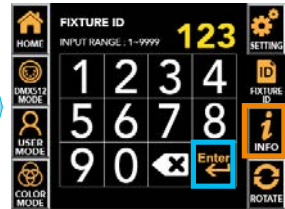
[Main Screen]



[Fixture ID Screen]



[Fixture ID Input Screen]

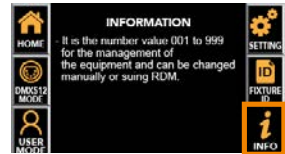


Fixture ID
Input
Screen

INFO

Displays description of each function.

※ It is the number value 001 to 9999 for the management of the lighting fixture can be changed by manual or RDM device.



[Device Label Setup]



[Change the device label through RDM]

◀ The device label is basically the model name. It can be changed through RDM communication, but it can't be changed through the Smart Touch LCD ▶

Enter the device name and the management number in the 'Device Label' field. ► The entered contents are displayed in the upper left corner.

- The fixture ID is 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)	SPOT123	SPOT1234	SPOT12345	SPOT	STUDIO1013-23
Fixture Label(in Fixture)	SPOT123	SPOT1234	SPOT12345	SPOT	STUDIO1013-23
ID Number(in Fixture)	123	1234	2345	001	023

Error Information

Temperature Sensor

Detects the temperature of the current fixture(LED source, housing) and displays it on the Smart Touch LCD screen.



If it exceeds 85°C, the actual LED output will be 0%, and

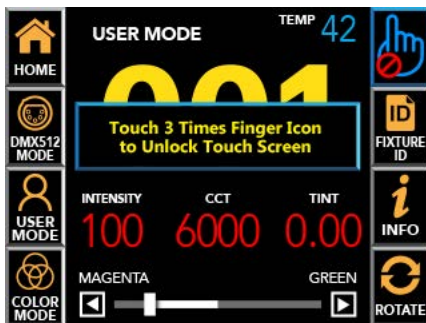
"Temperature Error!!"

"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

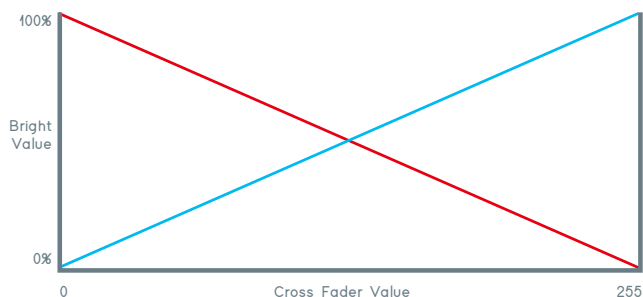
When the DMX512 network connection is lost, the DMX512 address number on main screen and the fixture ID screen blinks. Reconnect after checking the connection status.

Cross Fader

Cross Fader

[In 8 channel mode]

- When the DMX value of Ch.4(Cross Fader) is 0, the color temperature set by Ch.2(CCT) is distributed.
- When the DMX value of Ch.4 is 255, only color set by Ch.5~7 (Red, Green and Blue) is distributed.
- As the DMX value of Ch.4 increase, the brightness of Ch.2 decrease and the brightness of the color set by Ch.5~7 increase at the same time.
- The DMX value of Ch.4 adjusts the CCT and color brightness and density ratio relative to each other.



DMX Protocols (1/4) Channel Mode

Mode	Channel	DMX Value	%	Function
1	1	0~255	0~100	Dimmer

Mode	Channel	DMX Value	%	Function
3	1	0~255	0~100	Dimmer
	2	0~255	See DMX Protocols (2)	Color Temperature (CCT)
	3	0~119 / 120~255	See DMX Protocols (3)	Tint

Mode	Channel	DMX Value	%	Function
8	1	0~255	0~100	Dimmer
	2	0~255	See DMX Protocols (2)	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		Strobe

3 & 8 Channel Mode : Color Temperature

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
40	3650
41~42	3700
43~44	3750
45	3800
46~47	3850
48~49	3900
50	3950

DMX Value	Function
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
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

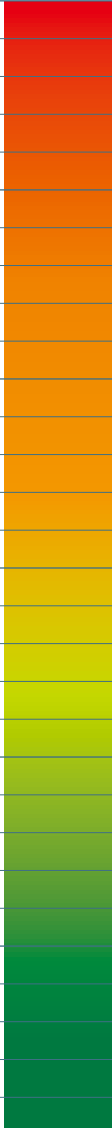
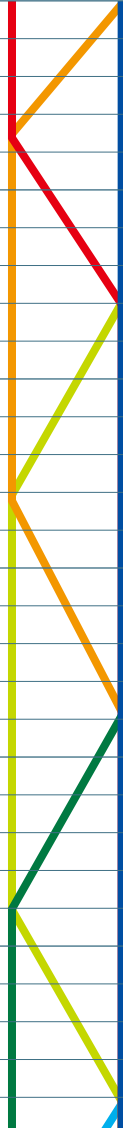
DMX Value	Function
102~103	5500
104~105	5550
106~107	5600
108	5650
109~110	5700
111~112	5750
113	5800
114~115	5850
116~117	5900
118	5950
119~120	6000
121~122	6050
123~124	6100
125	6150
126~127	6200
128~129	6250
130	6300
131~132	6350
133~134	6400
135	6450
136~137	6500
138~139	6550
140~141	6600
142	6650
143~144	6700
145~146	6750
147	6800
148~149	6850
150~151	6900
152	6950


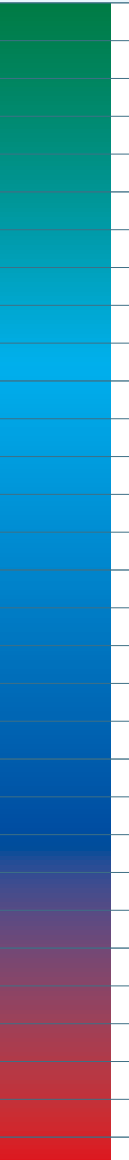
DMX Value	Function
153~154	5500
155~156	5550
157~158	5600
159	5650
160~161	5700
162~163	5750
164	5800
165~166	5850
167~168	5900
169	5950
170~171	6000
172~173	6050
174~1v75	6100
176	6150
177~178	6200
179~180	6250
181	6300
182~183	6350
184~185	6400
186	6450
187~188	6500
189~190	6550
191~192	6600
193	6650
194~195	6700
196~197	6750
198	6800
199~200	6850
201~202	6900
203	6950

DMX Value	Function
204~205	5500
206~207	5550
208~209	5600
210	5650
211~212	5700
213~214	5750
215	5800
216~217	5850
218~219	5900
220	5950
221~222	6000
223~224	6050
225~226	6100
227	6150
228~229	6200
230~231	6250
232	6300
233~234	6350
235~236	6400
237	6450
238~239	6500
240~241	6550
242~243	6600
244	6650
245~246	6700
247~248	6750
249	6800
250~251	6850
252~253	6900
254	6950
255	10000

DMX Protocols (3/4)

8 Channel Mode : Color Macro

DMX Value	Color Value	Color Macro
1 - 6		
7 - 12		
13 - 18		
19 - 24		
25 - 30		
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		
95 - 98		
99 - 102		
103 - 106		
107 - 110		
111 - 114		
115 - 118		
119 - 122		
123 - 126		
127 - 130		

DMX Value	Color Value	Color Macro
131 - 134		
135 - 138		
139 - 142		
143 - 146		
147 - 150		
151 - 154		
155 - 158		
159 - 162		
163 - 166		
167 - 170		
171 - 174		
175 - 178		
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		

DMX Protocols (4/4)

3 & 8 Channel Mode : Tint / 8 Channel Mode : Strobe

[Tint]

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

[Strobe]

DMX Value	Channel
0	Neutral / No effect
1~255	1 / Slow ~ 255 / Fast

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

RDM Protocols (2/3)

No	Device Property	Value (Example)	Description	User Setting	Remarks
1	Device Model Description	FS1000 (COLOR)	Model number of the device	Disable	
2	Manufacturer Label	ALPHA LITE	Name of the manufacturer	Disable	
3	Device Label	SPOT123	Fixture name and management number	Enable	ex) Input : SPOT123 · Name : SPOT123 · 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

[Lamp Controls]

No	Control Property	Value (Example)	Description	User Setting	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 (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 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
	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



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