ALPHA LITE USER MANUAL BOOK



FS SERIES

FS3000



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.

FS3000

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.

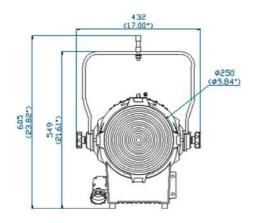
By applying the wireless DMX communication, user can easily set up lighting fixtures without a signal cable. The Smart Touch LCD controller can use functions such as intuitive operation and address display on the screen in consideration of user convenience. Also, the housing is designed for easy maintenance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

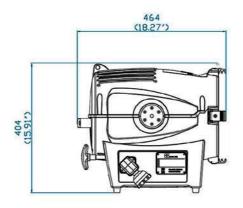
Fixture Exterior View

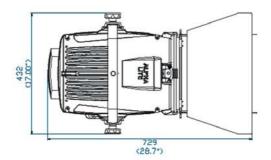




Dimensions







Accessory Options



Pole operation yoke

· Pan & Tilt



Jemball

 \cdot Detachable



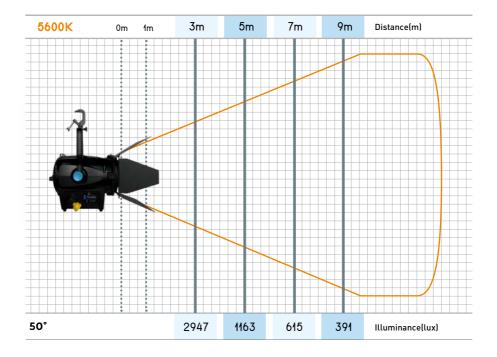
Technical Specifications

LED Chip Type	600W CSP LED		
Estimated LED Lifetime (hours)	50,000		
White Light (K)	2,900~6,000K (VCT)		
Color Rendition (%)	CRI 98 / TLCI 98		
Dimming (%)	0~100 (16-bit)		
Lens Diameter (mm/inch)	250 / 9.8		
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		
Power Input Voltage	AC 100-240V / 50~60Hz		
Power Consumption (W)	500		
Ambient Temperature Operation (°C)	-20~45		
Spigot Mounting (mm)	16 / 28		
Tilt Angle (°)	+ / - 90		
Body Dimensions (mm/inch) (WHD)	328 x 404 x 464 / 12.9 x 15.9 x 18.3		
Full Dimensions with Manual Yoke (mm/inch) (WHD)	432 x 605 x 464 / 17 x 23.8 x 18.3		
Body Weight (kg/lbs)	12.3 / 27.1		
Full Weight with Manual Yoke (kg/lbs)	13.8 / 30.4		
Protection Class	IP20		

* This specification data is based on the aging state of the equipment,

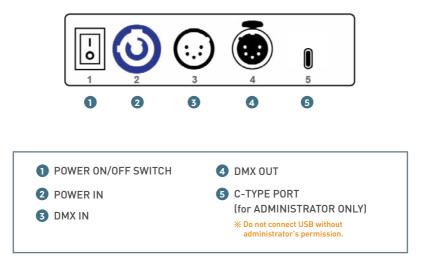
and the brightness and color temperature before and after aging may be different.

Photometry Data



Power Connection

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



⚠ 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.

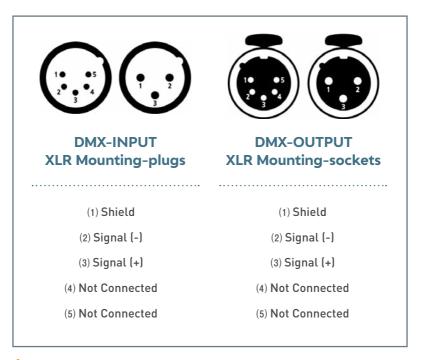
9

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.

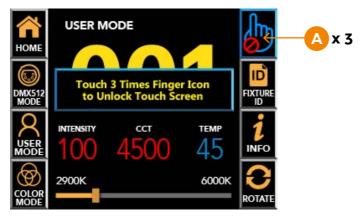
2. Connect one output to the input of the next fixture until all fixtures are connected.

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)]

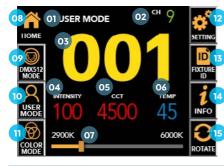


[Fixture ID Screen (Locked)]



Screen Instructions

[Main Screen (Unlocked)]

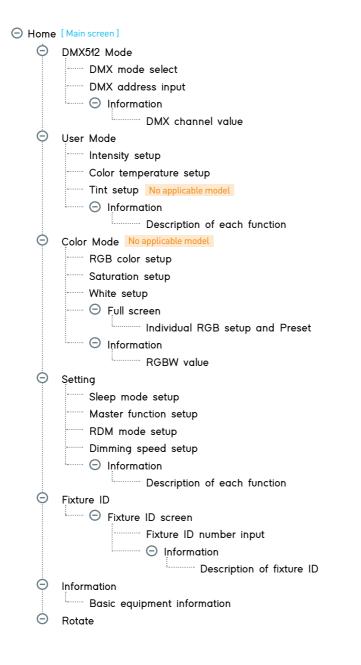


[Setting Screen]



01	Current Mode	Display DMX MODE or USER MODE or COLOR MODE.				
02	Current Channel Mode	Display current channel mode. *Only display on DMX MODE				
03	DMX512 Address Display current DMX512 Address.					
04	Brightness (Intensity) Displays the brightness value(0~100%) of the equipment.					
05	CCT (Correlated Displays the color temperature(2900~6000K) of the equipment					
06	Fixture Current Temperature	The current temperature of the instrument is detected and displayed in °C.				
	(In USER MODE) Activated function control bar	Adjust the selected function among Intensity and Color Temperature.				
07	(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 ଧ Address Setup	Set channel mode and DMYb12 address				
10	Jser Mode Setup Set 'Intensity' and 'CCT' manually.					
11	Color Mode Setup Set 'RGB' lighting color, 'Saturation', and 'Intensity' [No applicable model] 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				

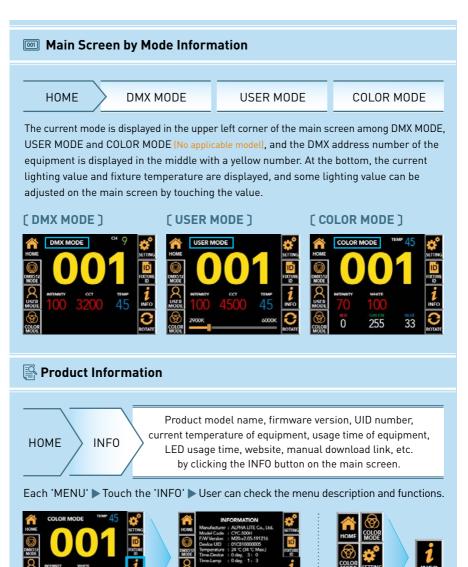
Menu Tree



255

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Main Screen by Mode & **Product Information**



DMX Mode Channel Change & Address Setup

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

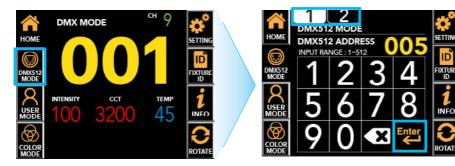
HOME

DMX512 MODE

Move to the DMX channel change screen.

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

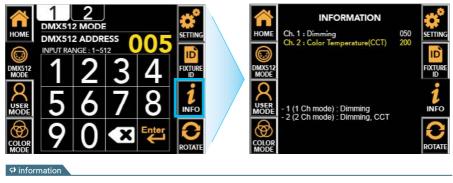
▶ Input DMX512 address by pressing the number pad.



DMX512 MODE SCREEN > INFO

Displays each channel information and value.

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



- 1 (1 Ch Mode) : Dimming - 2 (2 Ch Mode) : Dimming, CCT

User Mode Setup & Intensity / CCT Adjust

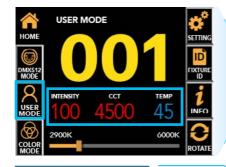
* If the equipment does not support COLOR MODE, the Tint function does not work.

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



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.

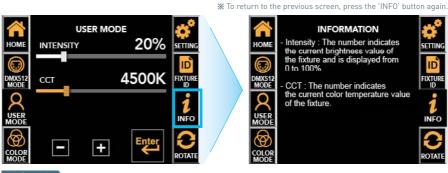


USER MODE SCREEN

and then touch 🕂 , 🗖 to set the exact value.



Displays description of each function.



INFO

- 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 2,900~6,000Kelvin.

Extra Function - Sleep Mode / Master / RDM / Dimming Speed

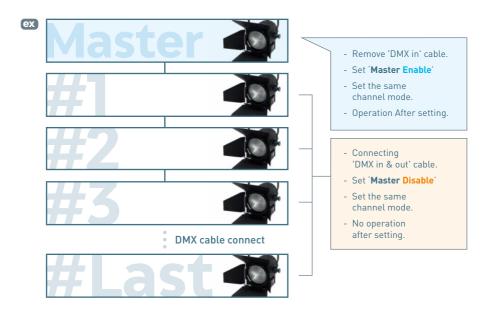
HOME SETTING Move to additional settings other than the main icon.
SETTING screen > Touch ON/OFF the function you want to change among SLEEP MODE, MASTER, and RDM MODE > Active in Orange > Set ON/OFF' - DIMMING SPEED SETUP can be activated by touching, and press +, = to adjust the value.
WISER MODE WISER MODE WITHE SETTING SETTING WIGER 0 0 1 Image: Setting SEEP MODE OFF • WIGER MILLING FILLING WITHE Image: Setting SEEP MODE OFF • SETTING WIGER MILLING MILLING FILLING WITHE Image: Setting SETTING SETTING WIGER MILLING MILLING MILLING MILLING MILLING MILLING SETTING SETTING WIGER MILLING MILLING MILLING MILLING MILLING SETTING SETTING SETTING WIGER MILLING MILLING MILLING MILLING MILLING SETTING SETTING SETTING WIGER MILLING MILLING MILLING MILLING SETTING SETTING SETTING WIGER MILLING MILLING MILLING SETTING SETTING SETTING WIGER MILLING MILLING MILLING SETTING SETTING SETTING WIGER MILLING MILLING MI
SETTING SCREEN INFO Displays description of each function. * Press the INFO button again to return to the setting screen.
SETTING STATE INFORMATION Step mode: The default is off. INFORMATION Info INFORMATION Step mode: The default is off. INFORMATION Info INFO Info INFO Info INFO Info INFO Info INFO Info
P 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.





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

4000

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)	SP0T123	SP0T1234	SP0T12345	SPOT	STUDI013-23
Fixture Label(in Fixture)	SPOT123	SP0T1234	SP0T12345	SPOT	STUDI013-23
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.

DMX Protocols (1/2) Channel Mode

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

Mode	Channel	DMX Value	%	Function
2 1 2	1	0~255	0~100	Dimmer
	0~255	0~100	Color Temperature(CCT)	

DMX Protocols (2/2)

2 Channel Mode : White Color Temperature

DMX Value	Function	DMX Value	Function	DMX Value	Function
0~255	Dimmer 0~100%	116~119	4350K	236~239	5850K
0~3	2900K	120~123	4400K	240~243	5900K
4~7	2950K	124~127	4450K	244~247	5950K
8~11	3000K	128~131	4500K	248~255	6000K
12~15	3050K	132~135	4550K	-	
16~19	3100K	136~139	4600K		
20~23	3150K	140~143	4650K		
24~27	3200K	144~147	4700K		
28~31	3250K	148~151	4750K	-	
32~35	3300K	152~155	4800K	-	
36~39	3350K	156~159	4850K		
40~43	3400K	160~163	4900K	-	
44~47	3450K	164~167	4950K		
48~51	3500K	168~171	5000K	-	
52~55	3550K	172~175	5050K	-	
56~59	3600K	176~179	5100K		
60~63	3650K	180~183	5150K		
64~67	3700K	184~187	5200K	-	
68~71	3750K	188~191	5250K	-	
72~75	3800K	192~195	5300K	-	
76~79	3850K	196~199	5350K		
80~83	3900K	200~203	5400K		
84~87	3950K	204~207	5450K		
88~91	4000K	208~211	5500K	-	
92~95	4050K	212~215	5550K	-	
96~99	4100K	216~219	5600K	-	
100~103	4150K	220~223	5650K		
104~107	4200K	224~227	5700K	-	
108~111	4250K	228~231	5750K		
112~115	4300K	232~235	5800K	-	

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 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 (2/3)

No	Device Property	Value (Example)	Description	User Setting	Remarks
1	Device Model Description	FS3000	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

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
	1 Ch. Mode	1 Ch. Mode
	2 Ch. Mode	2 Ch. Mode
	1 Ch. 2900K	1 Ch. Mode + 2900K Color Temperature
	1 Ch. 3000K	1 Ch. Mode + 3000K Color Temperature
	1 Ch. 3100K	1 Ch. Mode + 3100K Color Temperature
2 Ch. Model Device	1 Ch. 3200K	1 Ch. Mode + 3200K Color Temperature
(Variable Color Temperature)	1 Ch. 4400K	1 Ch. Mode + 4400K Color Temperature
	1 Ch. 4500K	1 Ch. Mode + 4500K Color Temperature
	1 Ch. 5500K	1 Ch. Mode + 5500K Color Temperature
	1 Ch. 5600K	1 Ch. Mode + 5600K Color Temperature
	1 Ch. 5700K	1 Ch. Mode + 5700K Color Temperature
	1 Ch. 6000K	1 Ch. Mode + 6000K Color Temperature



ALPHA LITE USER MANUAL BOOK

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