

SPOT LIGHT FS SERIES

USER MANUAL

July 2018



Safety Information



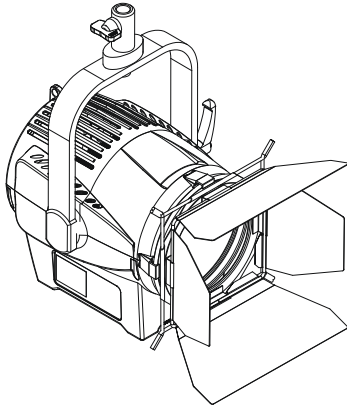
WARNING

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. The work should be done under the direction of approved specialist who is trained in safety and mechanical installations.
4. Be sure to fix the safety chain on the product when installing and moving.
5. Please install the signs below for people to bypass when install the product on high truss.

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Information



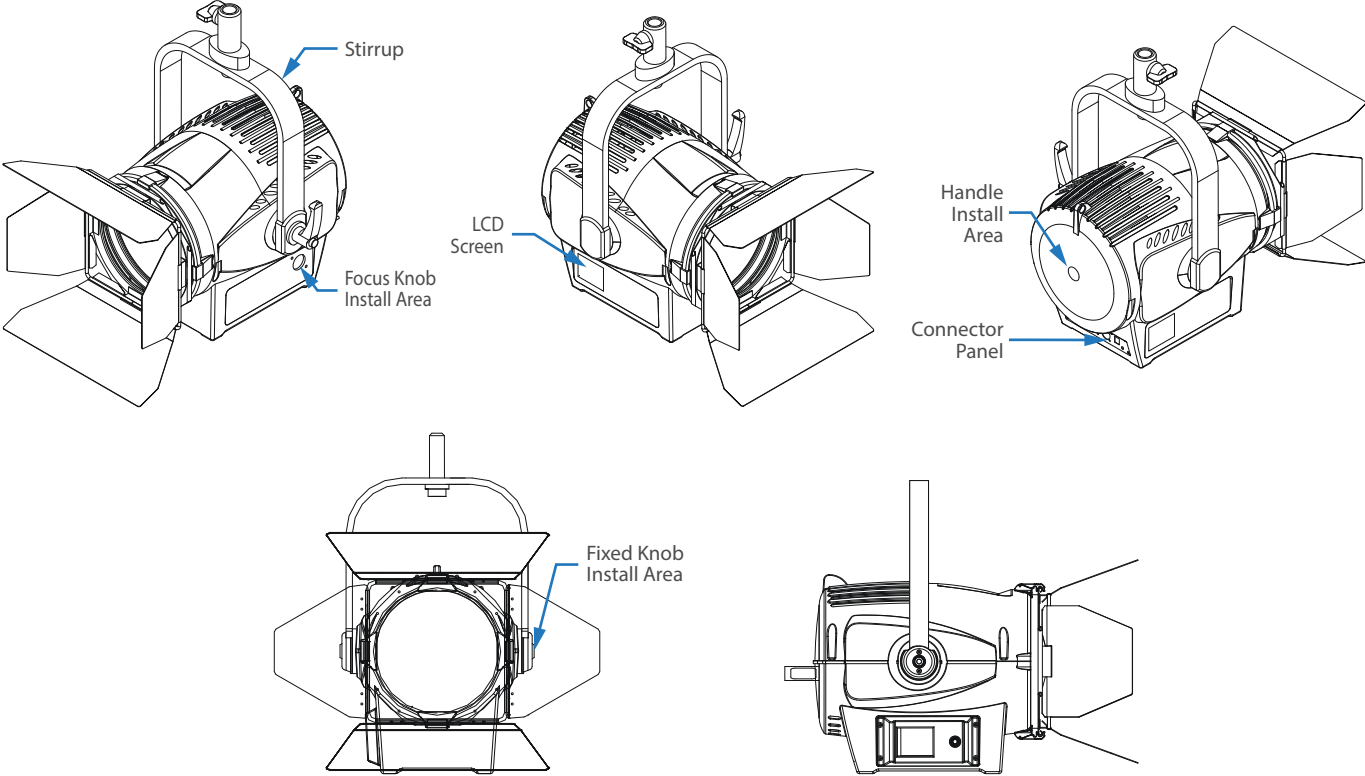
FS Series uses a multi-focusing zoom lens based on ALPHA LITE's unique technology, and there is no yellowing phenomenon at the boundary of illuminated light by multi focus LED and color temperature change by chromatic aberration.

FS Series is a single light source with a large capacity, such as a halogen lamp, and the texture of the light source projected by the lens is very soft. Also, the boundary of the shadow is formed smoothly without 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.

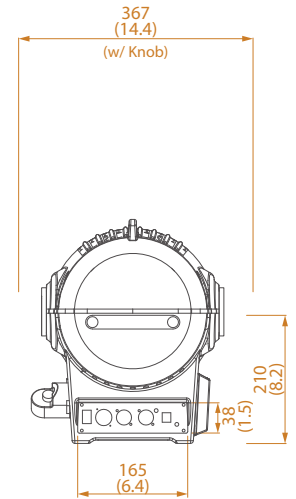
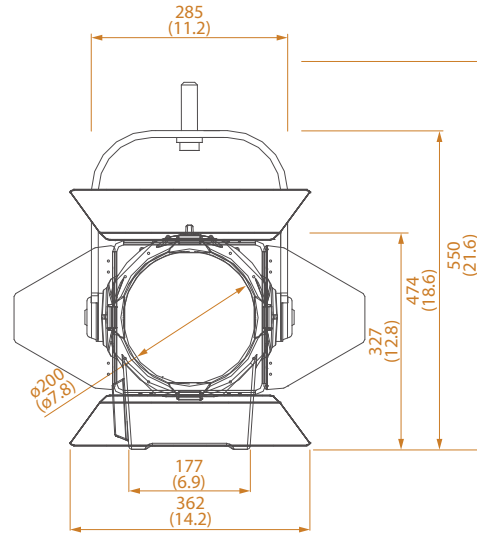
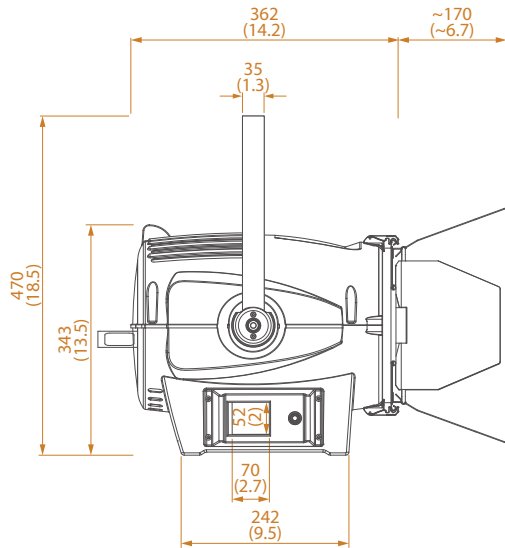
FS Series applies wireless DMX communication method, so user can set up lighting fixture simply without a signal cable. The touch LCD that includes intuitive manual operation and address display window was designed with the user's convenience. Also, the housing is designed for easy maintenance and repair.

Fixture Exterior View



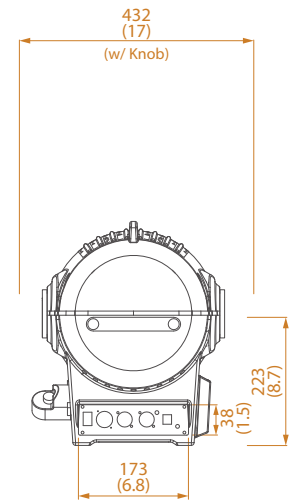
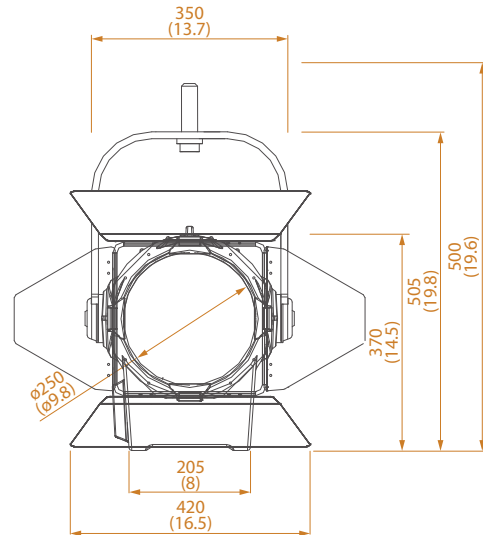
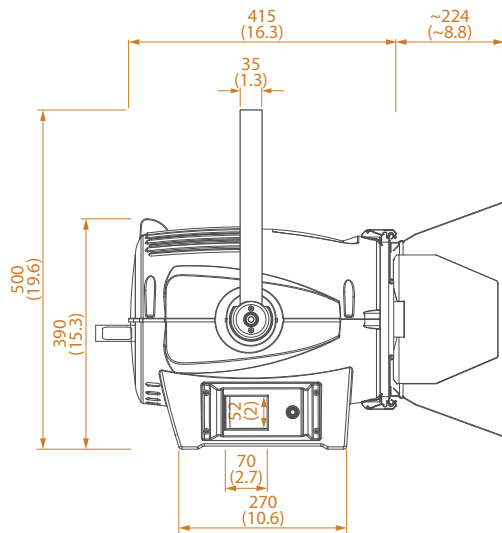
Dimensions (FS-1.5 / FS-2.0)

mm
(inch)



Dimensions (FS-3.0)

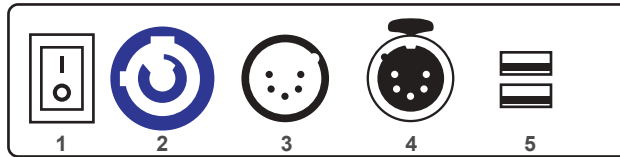
mm
(inch)



Power Connection

Power Connection

AC power at 100-250V, 50-60Hz



1. ON/OFF SWITCH
2. POWER IN
3. DMX IN
4. DMX OUT
5. USB PORT



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.

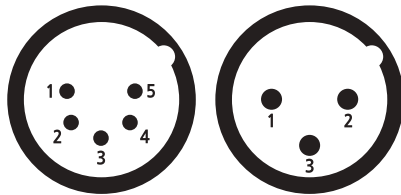
Through and DMX512 Connection

DMX512 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.

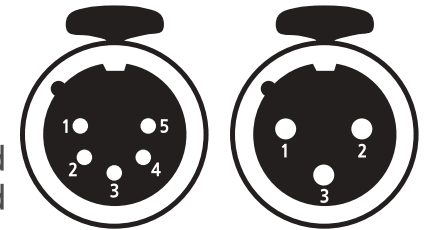
DMX-INPUT XLR Mounting-plugs

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



DMX-OUTPUT XLR Mounting-sockets

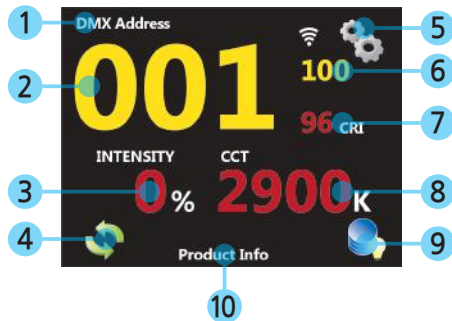
- 1-Shield
- 2-Signal (-)
- 3.Signal (+)
- 4-Not Connected
- 5-Not Connected



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 Ω resistor) in DMX output signal (+, -).

Smart LCD Control



Main Screen

1 Current Mode

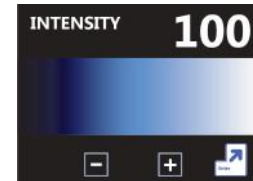
2 DMX Address

The number indicates the address of the DMX512. To change the DMX512 Address, touch and input the value. In normal operation, the number will not blink.



3 Intensity (Lighting Brightness)

Displays the brightness value(0~100%) of the equipment.



4 Rotate Screen

Change the top and bottom of the LCD screen according to the installation direction of the equipment.



5 Setting

Setting or changing the function of the equipment.

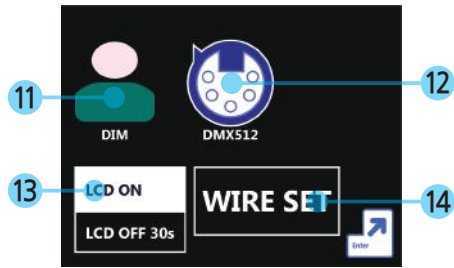


Smart LCD Control

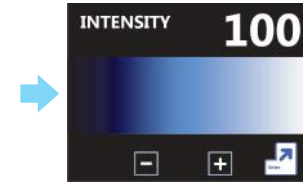
- 6 Wireless communication status
Displays the strength of the connection signal with the wireless module.
- 7 Current CRI
- 8 CCT (Color Temperature)
The number indicates the color temperature of the equipment.
In Mode 1, possible to set the color temperature value user want.
In Mode 2, displays the color temperature value by the channel setting.
- 9 Fixture ID Display
User can set and change any number(001~999) using the touch screen or RDM,
and it is not related to DMX512 Address.
After the input is completed, the set number is changed to the main screen.
- 10 Equipment Information
Displays model number, firmware version and equipment internal temperature.



Setting



- 11 Intensity (Lighting Brightness)
Brightness value is adjusted by touch on the gradient or press +, -.

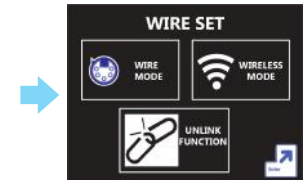


- 12 Channel Mode
1 : Dimming (Channel 1)
2 : Dimming (Channel 1),
CCT (Channel 2)



- 13 LCD Screen Setting
LCD ON : The screen stays on all the time.
LCD OFF 30s : After 30 seconds, the screen goes off.

- 14 Wire Set
Wire Mode: Connect DMX 512 cable
Wireless Mode: Connect Wireless DMX 512
Unlink Function: Disconnect the link of
the wireless module.



Spot Light Encoder



1. The encoder is not working while LCD touch setting
2. LCD touch setting is not working while the encoder activates.
3. When press the encoder on the main screen, the menu setting appears.
4. Press the encoder to select the value and enter the menu.
5. Turning the encoder clockwise or counterclockwise to increase or decrease the value.
6. The menu configuration of the encoder is the same as for LCD touch.



Menu Screen Configuration

1. Mode Select
Select user mode or DMX512 mode.
2. Set Kelvin
Select Kelvin value either user mode or 1 channel of DMX512 mode.
3. LCD 30 Sec On/OFF
Choose whether to keep the LCD on or off after 30 seconds.
4. Fixture ID Setting
Select the screen shown either the Fixture ID or the main screen.
5. Product Info
Check firmware version, model number and RDM UID number.
6. Rotate Display
Rotate the top and bottom of the screen.
7. Wire Mode Set ([Appear only wireless module is applied](#))
Select wired mode or wireless mode.

Function Setting Order

User Mode Setting

1. Press the encoder, the menu setting appears.
2. Move to 'MODER SELECT' and press the encoder.
3. It will be displayed as (2). Move to 'USER MODE' and press encoder.
4. On the screen (3), turning the encoder clockwise to increase the value and counterclockwise to decrease the value.
5. Press the encoder and all the value are saved. Automatically go to main screen.



Function Setting Order

DMX512 Mode Setting

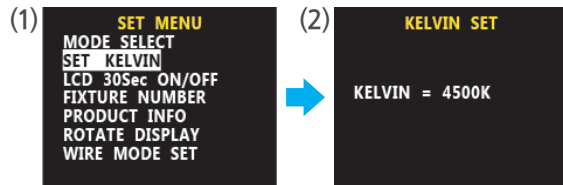
1. Press the encoder, the menu setting appears.
2. Move to 'MODER SELECT' and press the encoder.
3. It will be displayed as (2), move to 'DMX MODE' and press encoder.
4. On the screen (3), select channel mode and press the encoder.
5. On the screen (4), the cursor is on the units digit of DMX ADDRESS.
Turning the encoder clockwise to increase the value and counterclockwise to decrease the value. Go to 10th digit pressing the encoder, go to 100th digit pressing the encoder one more time.
Press the encoder again to move to OK. Press again to move to the screen (5).
6. When you turn the encoder on the screen (5), move BACK and OK.
BACK will go back to edit the configured DMX512 ADDRESS.
OK saves the set DMX512 ADDRESS value and returns to the main screen.



Function Setting Order

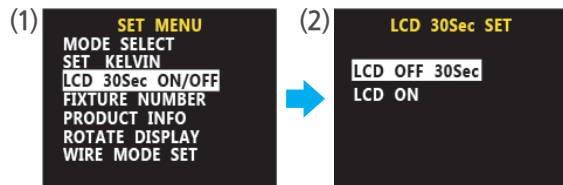
Kelvin Setting

1. Press the encoder, the menu setting appears.
2. Move to 'SET KELVIN' and press the encoder.
3. On the screen (2), turn the encoder clockwise or counterclockwise to set KELVIN value. Press the encoder and all the value are saved. Automatically go to main screen.



LCD 30 Sec ON/OFF Setting

1. Press the encoder, the menu setting appears.
2. Move to 'LCD 30Sec ON/OFF' and press the encoder.
3. On the screen (2), turn the encoder clockwise or counterclockwise to set LCD ON/OFF. Press the encoder and the setting saved.
4. LCD OFF 30Sec is will be off after 30sec, and LCD ON is constantly on.



Function Setting Order

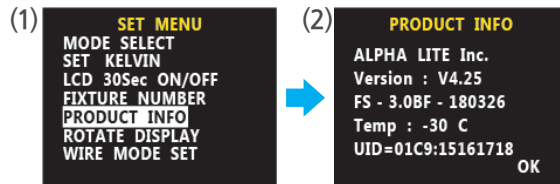
FIXTURE ID Setting

1. Press the encoder, the menu setting appears.
2. Move to 'FIXTURE NUMBER' and press the encoder.
3. On the screen (2), select 'FIXTURE NUMBER' and press the encoder.
4. On the screen (3), the cursor is on the units digit. Turning encoder to set the value.
Go to 10th digit pressing the encoder, go to 100th digit pressing the encoder one more time.
Press encoder again to move to OK. Press again to saved and FIXTURE ID is displayed.



PRODUCT INFO Setting

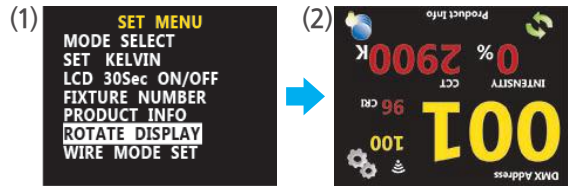
1. Press the encoder, the menu setting appears.
2. Move to 'PRODUCT INFO' and press the encoder.
3. On the screen (2), Product information is shown.
Back to main screen by pressing the encoder.



Function Setting Order

ROTATE DISPLAY Setting

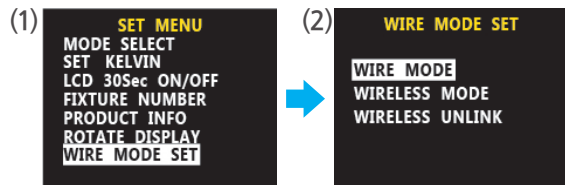
1. Press the encoder, the menu setting appears.
2. Move to 'ROTATE DISPLAY' and press the encoder.
3. The screen is upside down.



WIRE MODE SET

* [Appear only wireless module is applied](#)

1. Press the encoder, the menu setting appears.
2. Move to 'WIRE MODE SET' and press the encoder.
3. On the screen (2), turn the encoder clockwise or counterclockwise to set WIRE MODE or WIRELESS MODE.
WIRELESS UNLINK is for unlink with wireless module.



Error and Information Message

Temperature Sensor

Detects the temperature of the current equipment, and appears the temperature on the LCD when it reaches a certain temperature.

- LED
- Drive
- Housing

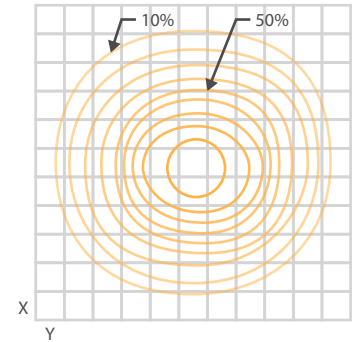
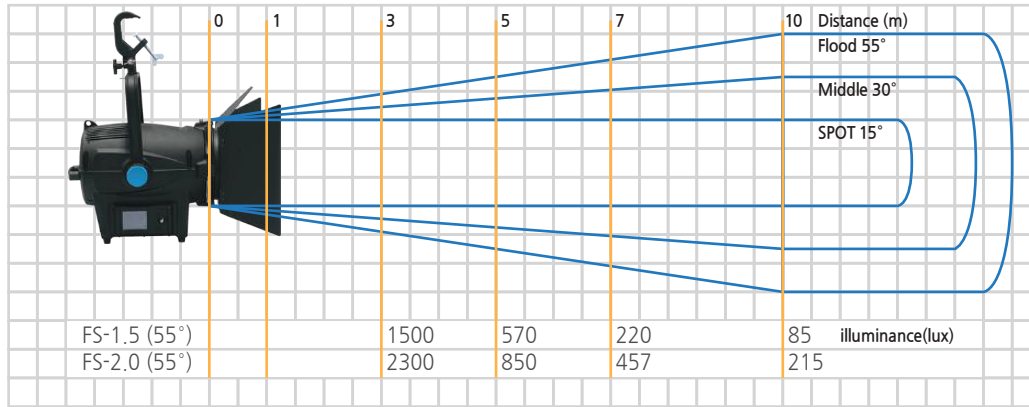
Fan Sensor

The fan speed level is displayed on the LCD by detecting the speed.

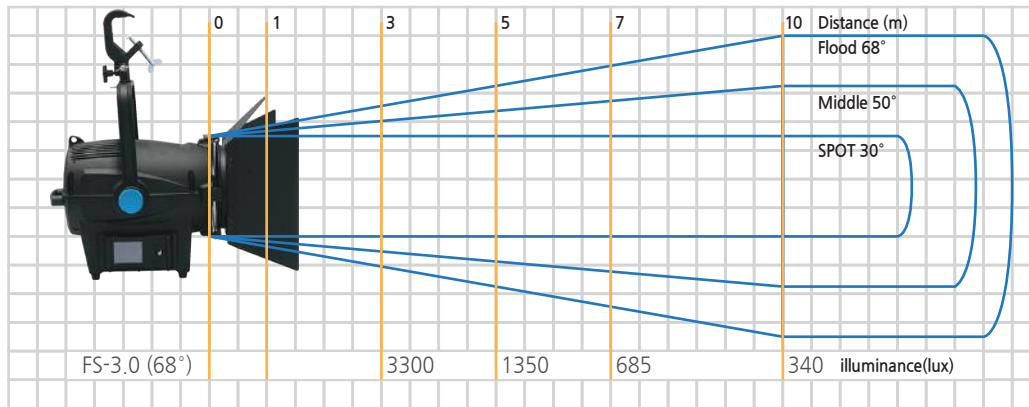
Technical Specifications

	FS-1.5	FS-2.0	FS-3.0
Optical System	Focusable Fresnel Lens		
Lens Diameter	200mm / 8"	200mm / 8"	250mm / 10"
Beam Angle	20°~60° (Half Peak Angle)		
Weight	12kg / Pole Up 14kg	12kg / Pole Up 14kg	15kg / Pole Up 17kg
Handling	Adjusting Sliding Stirrup, High Strength Tilt Lock		
Mounting	16mm / 28mm		
Tilt Angle	±270°		
Power Supply Range	100-240V, 50/60Hz		
Power Consumption	250W	350W	550W
White Light	Full 2900~6000K (Bi-Color)		
Color Rendition	CRI 95~98		
Dimming	0~100% Continuous		
Control	5-PIN DMX In and Through, DMX Wireless, LCD On Board Controller, RDM		
Remote Device Management	RDM Setup		
Ambient Temperature Operation	-20~45°C		
IP Rating	IP20		
Estimated LED Lifetime	50,000 hours		

Photometric Diagrams



Source Four 15-55°
Zoom set at 55° (cosine)
ISO-Luminance Diagram



Mode & DMX Channel & RDM

Mode	Channel	Value	%	Function
2	1	0-255	0-100	Dimmer
	2	0-255	0-100	Color Macro

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

DMX Protocols

MODE #1	DMX Value	Function
CHANNEL 1	0~255	Dimmer 0~100%

MODE #2	DMX Value	Function
CHANNEL 1	0~255	Dimmer 0~100%
CHANNEL 2	0~3	2900
	4~7	2950
	8~11	3000
	12~15	3050
	16~19	3100
	20~23	3150
	24~27	3200
	28~31	3250
	32~35	3300
	36~39	3350
	40~43	3400
	44~47	3450
	48~51	3500
	52~55	3550
	56~59	3600
	60~63	3650
64~67	3700	
68~71	3750	
72~75	3800	

MODE #2	DMX Value	Function
CHANNEL 2	76~79	3850
	80~83	3900
	84~87	3950
	88~91	4000
	92~95	4050
	96~99	4100
	100~103	4150
	104~107	4200
	108~111	4250
	112~115	4300
	116~119	4350
	120~123	4400
	124~127	4450
	128~131	4500
	132~135	4550
	136~139	4600
140~143	4650	
144~147	4700	
148~151	4750	
152~155	4800	
156~159	4850	
160~163	4900	
164~167	4950	

MODE #2	DMX Value	Function
CHANNEL 2	168~171	5000
	172~175	5050
	176~179	5100
	180~183	5150
	184~187	5200
	188~191	5250
	192~195	5300
	196~199	5350
	200~203	5400
	204~207	5450
	208~211	5500
	212~215	5550
	216~219	5600
	220~223	5650
	224~227	5700
	228~231	5750
232~235	5800	
236~239	5850	
240~243	5900	
244~247	5950	
248~255	6000	



For more information and questions,
please visit our [Website\(www.alpha-lite.net\)](http://www.alpha-lite.net),
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