

LiveSpot 36

Pure, Clean Lighting for TV & Live Performance



High Power 1 Watt Luminaire

Smooth Dimming

Silent

Video Friendly

Ultra Smooth Light Field

Detachable GEL Frame

Even Color Temperature

Auto-Sensing Power

Contents

- 1. Introduction.....3**
 - 1a: Unpacking instructions
 - 1b: Safety Instructions

- 2. Functions.....4**
 - 2a: AC Power
 - 2b: Detachable Gel Frame Holder
 - 2c: Basic Functions
 - Table I: Functions

- 3. DMX Modes.....5**
 - 3a: 3 Channel DMX Mode
 - Table II: DMX Mapping- 3 Channel
 - 3b: 6 Channel DMX Mode
 - Table III: DMX Mapping- 6 Channel
 - 3c: Channel 6 Functions
 - Table IV: *1 Color Selection
 - Table V: *2 Color Cycle
 - Table VI: *3 Color Pulse – 7 Color
 - Table VII: *4 Color Cycle – 7 Color
 - Table VIII: *5 Sound Activation – 7 Color

- 4. Stand Alone Modes.....8**
 - 4a: Color Selection
 - Table IX: Color Selection
 - 4b: Color Cycle
 - Table X: Color Cycle
 - 4c: Color Fade
 - Table XI: Color Fade
 - 4d: Demo
 - 4e: Sound Active
 - Table XII: Sound Active
 - 4f: Slave

- 5. Daisy Chaining.....10**
 - 5a: DMX
 - 5b: Stand Alone

- 6. Trouble Shooting.....11**

- 7. Technical Specifications.....12**
 - Table XIII: LED's
 - Table XIV: Power
 - Table XV: Package Weight & Dimensions

- 8. Warranty.....13**

1. Introduction

The ColorKey LiveSpot 36 is a professional indoor LED Par designed to meet the needs of most professional lighting applications. This silent running par has a flicker free ultra smooth light field, smooth dimming, a balanced and even white when full on and comes with a detachable gel frame holder for diffusion. Set in a rugged and distinctive housing with a full range mounting bar that opens to become a floor stand without affecting the mobility of the can itself making it physically very versatile. The LiveSpot 36 is programmed to be as functional as possible in stand alone as it is when connected to a DMX controller with few exceptions. All in all, the LiveSpot 36 is the most capable LED Par in its class, ready to meet the needs of any indoor application.

1a: Unpacking Instructions

Immediately upon receiving the unit carefully unpack and check the contents to be sure that all of the parts are present and in good condition including the instruction manual and detachable gel frame holder. If any parts appear to be damaged from shipping or the carton itself shows signs of mishandling, retain all of the packing material for inspection and immediately notify both the shipper and ColorKey of the damages. For further instructions beyond damage caused in shipping please refer to the warranty and return information. Save the carton and all packing materials. In the event that a fixture must be returned to ColorKey for repair or servicing, it is important that the fixture be returned in the original factory box and packaging.

1b: Safety Instructions



Please read these instructions carefully as they contain important information about the proper installation, usage and maintenance of this product. Failure to follow these instructions may result in a voided warranty, damaged product or personal injury. ColorKey is not responsible for such damages as a result of the misuse of this product.

- Please retain this instruction manual for future consultation. If the unit is sold to another user, please insure the instruction manual is also included.
- Always make sure that you are connecting to the proper voltage, failure to do so may result in damage to the unit or personal injury.
- Always disconnect the unit from the power source before servicing or replacing the fuse and always replace with the same type fuse.
- This product is intended for indoor use only!
- To prevent risk of fire or shock, do not expose the unit to rain or moisture. Make sure there are no flammable materials close to the unit while operating.
- The unit must be installed in a location with adequate ventilation, at least 20in (50cm) from adjacent surfaces. Be sure that no ventilation slots are blocked on the unit.
- Always secure the fixture to a fastening device using a safety chain.
- Do not operate fixture at temperatures higher than the maximum ambient temperature of 95°F (35°C).
- In the event of a serious operating problem, stop using the unit immediately and contact ColorKey for further instructions on repair. Do not attempt to repair the unit yourself. Repairs carried out by untrained individuals can lead to damage, malfunction or personal injury.
- Do not connect the device to a dimmer pack, rheostat, or potentiometer.
- Make sure the power cord is never crimped or damaged.
- Never disconnect the power cord by pulling or tugging on the cord.
- Avoid direct eye exposure to the light source while it is on.
- For repairs or servicing of the unit please contact ColorKey directly at the address below.

ColorKey
1075 Zonolite Rd.
Suite 1-A
Atlanta GA 30306

Ph: 404-946-9300
Fax: 404-592-6546
Email: support@colorkeyled.com
www.colorkeyled.com

2. Features and Functions

The LiveSpot 36 has a number of features, functions and accessories that come with the unit including auto-sensing power switching, a detachable gel frame holder and 8 basic function sets in both DMX and stand alone modes.

2a: AC Power – Auto-Sensing Power Switching

The internal power supply is auto-sensing and power switching from 110v to 220v AC. No action is required on the part of the user. The unit will automatically determine the voltage and adjust accordingly.

Note: The unit must be powered directly from a switched circuit and may not be powered by a rheostat, potentiometer or dimmer circuit even when solely set between 0% and 100% and doing so may cause damage to the unit and void the warranty.

2b: Detachable Gel Frame Holder

The LiveSpot 36 comes with a detachable Gel Frame Holder that is easily removed and reconnected. Simply loosen or tighten the single screw located next to the clip on the top of the Gel Frame Holder to remove or reconnect. While this accessory was designed for use with the LiveSpot 36 it may be used on any LED par 64. However, ColorKey is not responsible for the accessories ability to fit any other par or for its functionality when used on any other pars.

2c: Basic Functions

The LiveSpot 36 has 8 basic functions including 2 DMX modes, a Demo mode, Master/Slave mode, Sound Sensitive mode and 3 Color Active modes in stand alone. Each mode is selected by using the **Menu** button on the back of the light to cycle through the modes in order as seen below. Once the mode is found, use the **+** or **-** buttons to select the value when applicable and then press **Enter** to set the light into that mode.

*Note: The light will remain in its current mode and value setting until you press the **Enter** button with the exception being the value for the Color Select mode. This serves to prevent the light from scrolling through its functions during an application so the transition from one function to the next happens smoothly and instantly.*

Mode	Screen	Function	Value
DMX	d 001	3 Channel	001-512
	d.001	6 Channel	.001-.512
Stand Alone	CS.01	Color Selection	01-99 (01 = White)
	CC.01	Color Cycle	01-99 (Slow - Fast)
	CF.01	Color Fade	01-99 (Slow - Fast)
	dEMO	Demo	
	bEAT	Sound Sensitive	Set by Knob
	SLAV	Master/Slave	

3. DMX Modes

The LiveSpot 36 can be set to use either 3 or 6 DMX channels depending on the needs of the application. In 3 channel mode the LiveSpot 36 does simple RGB or Red, Green and Blue color mixing. While in 6 channel mode the LiveSpot 36 has some additional programming capabilities including a master dimmer, strobing, Color Selection, 2 Color Cycle modes, a Color Pulse mode and a Sound Active mode.

3a: 3 Channel DMX Mode

The 3 channel DMX mode is used for simple RGB or Red, Blue and Green color mixing. To set the LiveSpot 36 into 3 channel DMX mode press the **Menu** button until d001 is displayed and press **Enter**. Then use the **+** or **-** buttons to select the starting DMX channel set or starting address and press **Enter**. In this mode, the LiveSpot will use 3 channels for control on the DMX controller, but can be set to start on any channel or address from 001 to 512. So, if the light is set to Channel 007 for example, the light will use channel 7 for Red, 8 for Green and 9 for Blue. The DMX Mapping chart below shows the DMX values for the various levels of dimming on each channel.

Step 1: Press the **Menu** button repeatedly until d001 is displayed.

Step 2: Press **Enter**

Step 3: Use the **+** or **-** buttons to select the DMX starting address.

Step 4: Press **Enter**.

DMX Mapping- 3 Channel		
Channel	Value	Function
1	0-255	Red 0 - 100%
2	0-255	Green 0 - 100%
3	0-255	Blue 0 - 100%

3b: 6 Channel DMX Mode

The 6 channel DMX mode is used when more effects beyond simple color mixing are required. To set the LiveSpot 36 into 6 channel DMX mode press the **Menu** button until d.001 is displayed and press **Enter**. *Note: There is a dot between the d and the DMX address value.* Then use the **+** or **-** buttons to select the starting DMX channel set or starting address and press **Enter**. In this mode, the LiveSpot will use 6 channels for control on the DMX controller, but can be set to start on any channel or address from 001 to 512. So, if the light is set to Channel 007 for example, the light will use channel 7 for Red, 8 for Green, 9 for Blue, 10 for Dimming, 11 for the Value Setting and 12 for the Function Selection. The DMX Mapping chart below shows the DMX values for the various channels and functions. The charts following the DMX Mapping chart show the values for the various functions of the 6th channel.

The function and values for channels 1 – 3 remain the same in both 3 and 6 channel mode. Channel 4 is a master dimming channel that will control the output of the other channels no matter what value to which they are set with the exception of the Sound Activation Function on Channel 6 which does not dim. Channel 5 is used for setting the

values for the various functions set out on Channel 6 and Channel 6 is used to select those various functions.

Step 1: Press the **Menu** button repeatedly until d.001 is displayed.

Note: There is a dot between the d and the DMX address value.


Step 2: Press **Enter**


Step 3: Use the **+** or **-** buttons to select the DMX starting address.


Step 4: Press **Enter**.


DMX Mapping- 6 Channel		
Channel	Value	Function
1	0-255	Red 0 - 100%
2	0-255	Green 0 - 100%
3	0-255	Blue 0 - 100%
4	0-255	Master Dimming 0 - 100%
5	0-255	Value
6 <i>Function Select</i>	0-5	Nothing
	6-47	Strobe
	48-89	Color Selection ^{*1}
	90-131	Color Cycle ^{*2}
	132-173	Color Pulse – 7 Color ^{*3}
	174-215	Color Cycle – 7 Color ^{*4}
	216-255	Sound Activation- 7 Color ^{*5}


3c: Channel 6 Functions

*1 - Color Selection (Smoothly select any color)		
This function will allow you to easily select a color from the full color palette.		
<ul style="list-style-type: none"> • Set CH6 to a DMX Value between 48 and 89. • Adjust the values in CH5 from 006 - 255 to chose the color desired. Values between 001 and 005 will be white. 		
CH6 Value	DMX 48 – 89	
CH5 Value	006	through 255
Palette		

*2 - Color Cycle (Cycle Smoothly through all colors)	
<p>This function will smoothly cycle back and forth through the full color palette.</p> <ul style="list-style-type: none"> • Set CH6 to a DMX Value between 90 and 131 • Adjust the values on CH5 from 001 - 255 to set the cycle speed (slow to fast). 	
CH6 Value	DMX 90 – 131
Palette	 <p>Red Orange Yellow Green Blue Indigo Violet</p>

*3 - Color Pulse (7 Color)	
<p>This function will pulse between colors. It will cycle back and forth through the full color palette.</p> <ul style="list-style-type: none"> • Set CH6 to a DMX Value between 132 and 173 • Adjust the values on CH5 from 001 - 255 to set the cycle speed (slow to fast). 	
CH6 Value	DMX 132 – 173
Palette	 <p>Red Orange Yellow Green Blue Indigo Violet</p>

*4 - Color Cycle (7 Color)	
<p>This function will cycle between 7 colors.</p> <ul style="list-style-type: none"> • Set CH6 to a DMX Value between 174 and 215 • Adjust the values on CH5 from 001 - 255 to set the cycle speed (slow to fast). 	
CH6 Value	DMX 174 – 215
Palette	 <p>Red Orange Yellow Green Blue Indigo Violet</p>

*5 - Sound Activation (7 Color)	
<p>This function will turn on sound activation mode. The light will randomly change colors when a sound is triggered.</p> <ul style="list-style-type: none"> • Set CH6 to a DMX Value between 216 and 255 • Adjust the values on CH5 from 001 - 255 to set the decibel sensitivity (low to high). 	
CH6 Value	DMX 216 – 255
Palette	 <p>Red Orange Yellow Green Blue Indigo Violet</p>

4. Stand Alone Modes

The LiveSpot 36 has extended programming to allow the light to be used without a DMX controller or DMX software. Some of the functions of the 6th DMX channel are available in this mode making a controller unnecessary for a number of applications. The LiveSpot 36 has 6 basic stand alone functions as follows.


4a: Color Selection

Color Selection mode is used to select from a palette of static color presets or macros ranging from a balanced white to violet and passing through the full spectrum of colors in between. To set the LiveSpot 36 to a static color press the **Menu** button until **CS.01** appears on the display and then press **Enter** to select this mode. Once the light is in Color Select mode you can then scroll through the various colors using the **+** or **-** buttons. This is the only mode in which it is not necessary to press the **Enter** button to activate the value change. When the value for each color is selected the light will instantly change to the selected color. To avoid this effect it is possible to select the value for a color before setting the light into this mode by reversing Steps 2 and 3 below.

Step 1: Press the **Menu** button repeatedly until **CS.01** is displayed.

Step 2: Press **Enter**

Step 3: Use the **+** or **-** buttons to select the color value.

Color Selection - CS.01 (Red) – CS.99 (Violet)		
Value	02	through 99
Color		

4b: Color Cycle


In Color Cycle mode the unit will jump between 7 basic color presets the same as the 7 Color Cycle mode on the 6th channel setting when the light is in 6 channel DMX mode. To set the LiveSpot 36 into Color Cycle mode press the **Menu** button until **CC.01** is displayed and press **Enter**. To change the speed of the cycle use the **+** or **-** buttons to select a speed value and press **Enter**. The value of 01 is the slowest and 99 the fastest.

Step 1: Press the **Menu** button repeatedly until **CC.01** is displayed

Step 2: Press **Enter** or move onto Step 3.

Step 3: Use the **+** or **-** buttons to select the speed value.


Step 4: Press **Enter**.

Color Cycle - CC.01 (slow) – CC.99 (Fast)		
	Start	Repeat
Palette		

4c: Color Fade

Color Fade mode will smoothly fade between 7 basic color presets. To set the LiveSpot 36 into Color Fade mode press the **Menu** button until **CF.01** is displayed and press **Enter**. To change the speed of the fade use the **+** or **-** buttons to select a speed value and press **Enter**. The value of 01 is the slowest and 99 the fastest.

- Step 1: Press the **Menu** button repeatedly until **CF.01** is displayed
- Step 2: Press **Enter** or move onto Step 3.
- Step 3: Use the **+** or **-** buttons to select the speed value.
- Step 4: Press **Enter**.

Color Fade - CF.01 (slow) – CF.99 (Fast)	
	Start Repeat
Palette	 Red Orange Yellow Green Blue Indigo Violet

Note: If the light has been previously set to a value for Color Selection, Color Cycle or Color Fade modes then the value will reflect that previous setting rather than the default value of 01.

4d: Demo


Demo mode will cycle through Color Cycle, Color Pulse and Color Fade modes with a brief blackout between each mode. To set the LiveSpot 36 into Demo mode press the **Menu** button until **dEMO** is displayed and press **Enter**. The cycle rate for Demo mode is not adjustable.

- Step 1: Press the **Menu** button repeatedly until **dEMO** is displayed
- Step 2: Press **Enter**

4e: Sound Active

Sound Active or Beat mode will randomly change between 7 basic colors when a sound is triggered. To set the LiveSpot 36 into Sound Active mode press the **Menu** button until **bEAT** is displayed and press **Enter**. To change the Sound Sensitivity use the knob located to the right of the display and turning to the right to increase the sensitivity.

- Step 1: Press the **Menu** button repeatedly until **bEAT** is displayed
- Step 2: Press **Enter**

Sound Active - bEAT	
Palette	 Red Orange Yellow Green Blue Indigo Violet

4f: Slave

Slave mode or Master/Slave mode will set the light to follow or mimic the stand alone setting of the previous light in the chain, see section **5b: Stand Alone** under **Daisy Chaining** below on this page. This is strictly a stand alone mode and will not function if other lights in the chain are set in DMX mode or any other mode with the exception of the Master unit. To set the LiveSpot 36 into Slave mode press the **Menu** button until **SLAV** is displayed and press **Enter**.

Step 1: Press the **Menu** button repeatedly until **SLAV** is displayed

Step 2: Press **Enter**

5. Daisy Chaining

Daisy Chaining is the process of connecting more than one light in a series to group the functions of many lights into a single set or fewer sets. This allows for much easier programming in both DMX and Stand Alone modes as well as reducing the amount of cabling required.

5a: DMX

In DMX mode it is necessary to set each light in the chain to a DMX channel set. The channels sets can be set to the same channel group or be individually set to different values depending on the application and the channels available on the console or controller. To put the unit into a DMX channel set, see section **3. DMX Modes** on page 5 of this manual. To connect the units in a chain first choose a starting unit to be connected directly to the console or controller. Using 3 pin XLR DMX Cable connect the output from the board or controller to the **DMX In** on the first unit in the chain. Then connect the next unit in the chain using 3 pin XLR DMX Cable going from the **DMX Out** on the first unit to the **DMX In** on the second unit. Continue in this fashion until all the units in the group are connected. No terminators are required to finalize the chain.

Step 1: Set each unit to a DMX Channel set or group.

Step 2: Connect the output from the controller to the **DMX In** on the first unit.

Step 3: Connect the next unit in the chain going from the **DMX Out** on the first unit to the **DMX In** on the second unit.

Step 4: Repeat Step 3 until all the units in the group are connected.

Note: Setting a unit in Slave mode will not work when daisy chaining the lights in DMX mode as this is a Stand Alone function only.

5b: Stand Alone

In Stand Alone mode it is necessary to select a unit to be the Master unit. The setting for this unit will control all of the other units in the chain. Set the Master unit into a Stand Alone function. To set the unit into a Stand Alone function, see section **4. Stand Alone Modes** on page 8 of this manual. Next set all of the other units in the chain into Slave mode

or **SLAV** on the display. To connect the units in a chain use 3 pin XLR DMX Cable connect the **DMX Out** from the Master unit to the **DMX In** on the first Slaved unit in the chain. Continue in like fashion connecting all of the units in the group. No terminators are required to finalize the chain.

Step 1: Set the Master unit into a Stand Alone function.

Step 2: Set all of the other units in the group to Slave mode or **SLAV** on the display.

Step 3: Connect the **DMX Out** from the Master unit to the **DMX In** on the first Slaved unit.

Step 3: Repeat Step 3 until all the units in the group are connected.

6. Trouble Shooting

- ✓ **My unit will not turn on or the display on the unit shows nothing:** First make sure the unit is plugged in. Next check the fuse to be sure it has not blown. Be sure the unit is not plugged into a dimmer pack or rheostat, potentiometer. Make sure that power is coming to the circuit the unit is plugged into.
- ✓ **My lights are daisy chained in DMX, but one or more of them are not responding:** Make sure all of the units are properly address. Make sure none of the units are set to Slave mode. Check and replace the DMX cables. Make sure you are using proper DMX cable and not mic cables.
- ✓ **My lights are daisy chained in Stand Alone but one or more of them are not responding:** Make sure all of the units but the Master unit are set to Slave mode. Check and replace the DMX cables. Make sure you are using proper DMX cable and not mic cables.

7. Technical Specifications

LED's	
Power Per LED	1 Watt
Number of LED's	36
Life Span	50,000 Hours

Power	
AC Range	85v - 264v :: 47~67 Hz
Type	Auto-Switching, Auto-Sensing
Watts	53 Watts
Amps	2.2 Amps
Heat Sink	Aluminum

Package Weight & Dimensions	
Weight	9.3 lbs / 4.2 Kg
Length	11.1 in / 280mm
Width	11.1 in / 280mm
Height	16.6 in / 420mm

8. Warranty – 1 year

ColorKey Limited Warranty

1. ColorKey warrants, to the original purchaser only, that each manufactured product will be sold without defects or damages due to the manufacturing process for a period of 1 year or 365 days beginning on the date of the purchase and covers parts and labor for all repairs covered under this warranty. The warranty applies only to products purchased and used within the United States of America. Warranty issues for products purchased outside the United States will be handled at the discretion of ColorKey on a case by case basis as a best effort service.
2. This warranty does not apply to any damages or defects caused by normal wear and tear of the product, nor is this warranty transferable should the product be resold to another user after the original retail purchase. This warranty is not a service contract and does not cover cleaning or maintenance of any ColorKey Products, nor does this warranty cover accessories or upgrades to any ColorKey Products.
3. Should any ColorKey Product be purchased through an authorized ColorKey Dealer warranty issues may be handled by either the Dealer the products were originally purchased from or by ColorKey directly via the process laid out in article 10 of this agreement.
4. ColorKey reserves the right to determine for itself if a defect is caused by the manufacturing process and to accept or deny any claims against this warranty.
5. ColorKey reserves the right to choose to repair, replace or refund the cost of any products manufactured by ColorKey for fulfilling any warranty issues. It is not the privilege of the purchaser to make this decision, but ColorKey will do its best to accommodate the Purchaser's needs. This applies to all products purchased directly or indirectly from ColorKey. If a product was purchased from an authorized ColorKey Dealer, the Dealer is obliged to follow the determination made by ColorKey for remedy of the Warranty issue be that repair, replace or refund in full.
6. This warranty is void should any products manufactured by ColorKey be opened, altered, changed or in any way tampered with including any part or parts of any products covered under this warranty if ColorKey determines that said alterations effect the reliability of the product and said alterations are made without the consent of ColorKey or by any person or persons not authorized by ColorKey to make said alterations.
7. At times ColorKey may enter into a verbal agreement to send parts for the repair of a product that is under warranty by an authorized ColorKey Dealer or by the purchaser of a ColorKey product. In cases where these repairs are made, it will not void this warranty as set out in article 6 of this agreement unless ColorKey determines that said repairs were made in such a way as to effect the normal working or reliability of the product in question. ColorKey will provide strict instructions for these repairs and failure to follow these instructions will void this warranty as set out in Article 6 of this agreement.
8. If it is necessary to replace an item and the item is not available due to stock issues or because it has been discontinued, ColorKey may choose to replace the item with the best possible available match or with an item of equal or greater value. In cases where this is not possible or acceptable a full refund to the purchaser may be made in place of a replacement.
9. ColorKey is not responsible for damages or accidents caused by acts of God, negligence, misuse or alteration of any part or parts of any products manufactured or sold by ColorKey or its affiliates. ColorKey is not responsible for the cost of reinstallation for any products being serviced or replaced under warranty issues. This includes, but is not limited to labor, equipment, lost time or lost income due to missed or canceled performances due to the defect of any ColorKey Products.
10. All warranty returns must have a Return Merchandise Number (RMA#) posted clearly on the box that can be acquired by calling 404-946-9300 and speaking to a ColorKey representative. ColorKey may require a proof of purchase in the form of an invoice or receipt to determine date of purchase. ColorKey is not responsible for the cost of return shipping, but may cover these costs as a courtesy to the customer in some cases. ColorKey reserves the right to process refunds by whatever means ColorKey determines to be applicable including, but not limited to, refunding the original credit card charged, sending a check or money order or a credit applied to future purchases. All items must be returned to the ColorKey headquarters located in Atlanta Georgia at the address listed below. Returns of items to ColorKey is handled as a courtesy to our customers and not a right of the customer, ColorKey therefore reserves the right to refuse the return of any item for any reason without explanation. Any item returned that does not meet these qualifications will be forfeit as a loss at the expense of the purchaser of the items.
11. This warranty agreement is the entire warranty agreement between ColorKey and the purchaser of ColorKey Products unless prohibited by applicable law. Purchaser agrees to this warranty by the act purchasing ColorKey Products. ColorKey reserves the right to amend, alter or change this agreement or products covered under this agreement at any time, for any reason and without notice.

All products returned for warranty issues or repairs must be sent to:

ColorKey
RMA Dept.
1075 Zonolite Rd.
Suite 1-A
Atlanta GA 30306