

INSTALLATION INSTRUCTIONS
LiveLED 12/35
Power Supply & Controller



MODEL NUMBER

LL-12/35-CNTRL

ADVANCED
LIGHTING SYSTEMS

A NEXUS LIGHTING COMPANY

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1.0 Important Safety Information

IMPORTANT SAFETY INSTRUCTIONS

READ & FOLLOW ALL INSTRUCTIONS

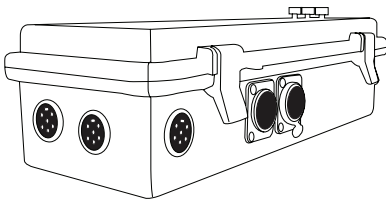
- SAVE THESE INSTRUCTIONS.
- WARNING: RISK OF INJURY.
- WARNING: RISK OF ELECTRIC SHOCK.
- CAUTION: CONNECT ONLY WITH DESIGNATED CABLING AND TO THE DESIGNATED ALS PROPRIETARY CONTROLLER. FOR HELP IN DETERMINING A PROPER COMPLETE SYSTEM OR IF YOU HAVE ANY CONCERNS OR QUESTIONS DURING YOUR INSTALLATION YOU SHOULD CONTACT SV LIGHTING OR YOUR AGENT.



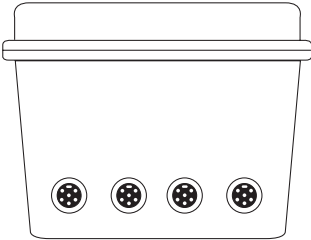
2.0 Placement & Mounting Requirements

The LiveLED™ 12/35 Power Supply & Controller is designed to operate indoors (dry locations only). Mounting of this unit consists of mounting the controller on a flat surface securing at least two corners to a stud or adequate structural support using the mounting hardware supplied.

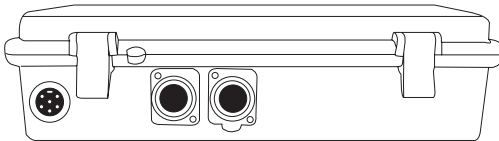
3.0 General Operating Instructions



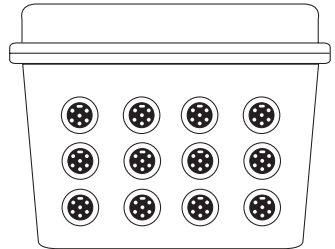
LL12-3



LL35-4



LL12-1/LL35-1



LL12-12

LiveLED™ 12 Controller

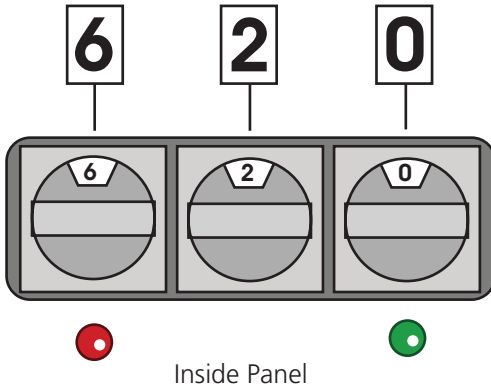
The LiveLED 12 Controller has a 1, 3, 6, 9, & 12 fixture option. The only time 1 fixture by itself will operate is with a LL12-1 Controller. Any other options (LL12-3, LL12-6, LL12-9 or LL12-12) you must have the corresponding groups of three fixtures all connected. *The LL12-3 has a single Driver for all three Fixtures. The LL12-6 has two individual Drivers for each group of three Fixtures. The LL12-9 has three drivers, one for each group of three and the LL12-12 has four drivers one for each group of three.*

LiveLED™ 35 Controller

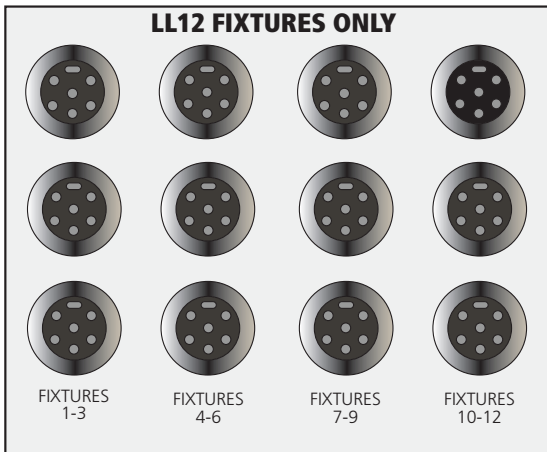
The LiveLED 35 can be operated in conjunction with 1-4 Fixtures. When ordering your controller you would need to specify LL35-1, LL35-2, LL35-3 or LL35-4. Each individual Fixture has its own Driver circuit.

4.0 Stand Alone Control

Program Code Example: 620 - RGB 30s Crossfade



- Red LED indicator light (located below left knob) = DMX system has power
- Steady green LED indicator light (located below right knob) = System has digital signal
- Flashing green LED indicator light = Operation is being executed



Side View of LL12-12

Drivers for LL12 fixtures in the LiveLED 12 Controller are wired in a series of three, therefore all three fixtures need to be connected to utilize the driver.



Side View of LL35-4

Drivers for LL35 fixtures in the LiveLED 35 Controller are capable of running on LL35 fixture each.

5.0 Standard Operation

To operate the LiveLED™ 12/35 Power Supply & Controller connect LL12/LL35 fixtures to the controller and rotate the control knobs within the panel of the controller (see picture above) to activate the preset program desired (see page 5). Be sure that if you are operating a LL12 Controller that you have three fixtures connected to each driver to ensure that the product will work. It is vital that in any outdoor installation that the controller is adequately covered and enclosed so that no moisture will enter.

6.0 Preset Program Table

STATIC COLORS:

601	RED
602	BLUE
603	GREEN
604	MAGENTA
605	YELLOW
606	CYAN
607	WARM WHITE
608	COOL WHITE
609	BLUE MAGENTA
610	RED MAGENTA
611	TURQUOISE
612	ORANGE
613	LIGHT BLUE strobe
614	LIGHT YELLOW
615	LIGHT WARM PINK
616	LIGHT GREEN
617	LIGHT SALMON
618	LIGHT AMBER
619	LIGHT LAVENDER

COLOR SNAP CHANGE:

(white/salmon/red/blue/green/magenta/yellow/cyan)

640	8 Color snap change w/10 second pause
641	8 Color snap change w/5 second pause
642	8 Color snap change w/2 second pause
643	8 Color snap change w/1 second pause
644	8 Color snap change w/0.5 second pause
645	8 Color snap change w/0.25 second pause

COLOR STROBE:

(flash on/off & pause for time indicated)

650	Red strobe 0.5 second strobe
651	Red strobe 0.25 second strobe
652	Red strobe 0.1 second
660	Blue strobe 0.5 second strobe
661	Blue strobe 0.25 second strobe
662	Blue strobe 0.1 second strobe
670	Green strobe 0.5 second strobe
671	Green strobe 0.25 second strobe
672	Green strobe 0.1 second strobe
680	Cool White 0.5 second strobe
681	Cool White 0.25 second strobe
682	Cool White 0.1 second strobe

COLOR FADES:

620	Red/Blue/Green	30 second cross fade
621	Red/Blue/Green	20 second cross fade
622	Red/Blue/Green	15 second cross fade
623	Red/Blue/Green	10 second cross fade
624	Red/Blue/Green	5 second cross fade
625	Red/Blue/Green	1 second cross fade
630	Red/Magenta/Yellow	30 second cross fade
631	Red/Magenta/Yellow	20 second cross fade
632	Red/Magenta/Yellow	15 second cross fade
633	Red/Magenta/Yellow	10 second cross fade
634	Red/Magenta/Yellow	5 second cross fade
635	Red/Magenta/Yellow	1 second cross fade

7.0 Quick Settings of Preset Colors & Effects

Channel:	Color Crossfades:	DMX Value (Min):	DMX Value (Max):
1	Red	0	255
2	Green	0	255
3	Blue	0	255
4	No Action	0	10
4	Magenta	11	21
4	Yellow	22	32
4	Cyan	33	43
4	Warm White	44	54
4	Cool White	55	65
4	Blue Magenta	66	76
4	Red Magenta	77	87
4	Turquoise	88	98
4	Orange	99	109
4	Light Blue	110	120
4	Light Yellow	121	131
4	Light Warm Pink	132	142
4	Light Green	143	153
4	Light Salmon	154	164
4	Light Amber	165	175
4	Light Lavender	176	186
4	RGB: 30 Crossfade	187	197
4	RGB: 20 Crossfade	198	208
4	RGB: 15 Crossfade	209	219
4	RGB: 10 Crossfade	220	230
4	RGB: 05 Crossfade	231	241
4	RGB: 01 Crossfade	242	252
5	No Action	0	9
5	RMY: 30 Crossfade	10	19
5	RMY: 20 Crossfade	20	29
5	RMY: 15 Crossfade	30	39
5	RMY: 10 Crossfade	40	49
5	RMY: 05 Crossfade	50	59
5	RMY: 01 Crossfade	60	69

Snap To Color (White/Salmon/Red/Blue/Green/Magenta/Yellow/Cyan)

5	8 Color: 10 Snap	70	79
5	8 Color: 05 Snap	80	89
5	8 Color: 02 Snap	90	99
5	8 Color: 01 Snap	100	109
5	8 Color: 0.5 Snap	110	119
5	8 Color: 0.25 Snap	120	129

Snap To Color (White/Salmon/Red/Blue/Green/Magenta/Yellow/Cyan)

5	8 Color: 10 Snap	70	79
5	8 Color: 05 Snap	80	89
5	8 Color: 02 Snap	90	99
5	8 Color: 01 Snap	100	109
5	8 Color: 0.5 Snap	110	119
5	8 Color: 0.25 Snap	120	129

7.0 Quick Settings of Preset Colors & Effects (Cont.)

Strobe: (Flash on/off & pause for time indicated)

5	Red Strobe: 0.5	130	139
5	Red Strobe: 0.25	140	149
5	Red Strobe: 0.1	150	159
5	Blue Strobe: 0.5	160	169
5	Blue Strobe: 0.25	170	179
5	Blue Strobe: 0.1	180	189
5	Green Strobe: 0.5	190	199
5	Green Strobe: 0.25	200	209
5	Green Strobe: 0.1	210	219
5	Cool White Strobe: 0.5	220	229
5	Cool White Strobe: 0.25	230	239
5	Cool White Strobe: 0.1	240	249

The DMX program allows a DMX controller to have complete control of color and effects. For custom cues, the programmer may use channels 1 through 5.

If DMX controlled pre-programmed sequences is required, the programmer should use a cue loop to send regular updates of the DMX values to the other unit(s). This will insure that all addressed SAVI™ Flare luminaires remain in sync with each other.

8.0 Resetting the DMX Programs:

Set the adjustment knob to a value of: 000 and disconnect the power (or turn the fixtures off). The fixtures will then reset themselves.

9.0 Troubleshooting

Symptom:	Probable Cause:	Suggested Remedy:
Unit does not light	No power to unit Line voltage is <90 VAC Power supply failure Driver failure	Check power supply & cord Use @ rated voltage Contact Authorized Distributor Contact Authorized Distributor
One color won't light	Damaged driver LED board short	Contact Authorized Distributor Contact Authorized Distributor
Low performance	Dirty Lens Damaged lens Damaged sub-optic board	Clean lens w/ soft dry cloth Contact Authorized Distributor Contact Authorized Distributor
No DMX response	Bad cable connection DMX driver malfunction Address issues	Check cables Contact Authorized Distributor Check for proper DMX address

For additional assistance or questions contact an authorized distributor or dealer for Advanced Lighting Systems, Inc. or contact the factory at:

Advanced Lighting Systems, Inc.
519 Lincoln Road
Sauk Centre, MN 56378
Tel: 320.352.0088
Fax: 320.352.0089

LIMITED WARRANTY

Nexxus Lighting, Inc. warrants its products, excluding lamps, to be free from defects in material and/ or workmanship, under normal condition, use and service, for a period of two (2) years from the original invoice date (Five (5) Years for Red, Amber and Orange FlexLED and Border Light LED products and one (1) Year for Non-UL Listed Power Supplies). If proof of purchase is provided, Nexxus Lighting will warranty the product for two (2) years from date of the purchase (Five (5) Years for Red, Amber and Orange FlexLED and Border Light products and one (1) Year for Non-UL Listed Power Supplies).

TERMS AND CONDITIONS:

This warranty only applies when Nexxus Lighting products are properly wired and installed together as a system; and operated within the electrical values shown on the Nexxus Lighting specification sheets; used in lighting equipment designed and approved for the application and environmental conditions (temperature, humidity) within the normal specified operating range of the system. This warranty does not apply to any abnormal use in violation of any applicable standard, code or instructions for use in installations including those contained in the latest National Electrical Code (NEC), the Standards for Safety of Underwriters Laboratory, Inc. (UL), Standards for the American National Standards Institute (ANSI), in Canada, the Canadian Standards Association (CSA), Europe (CE), Australia (C-Tick). This warranty will not apply in the event of conditions demonstrating abnormal use or stress, including under/ over voltage conditions, excessive switching cycles, excessive operating hours, alterations, accident, theft, misuse, abuse and damaged caused by negligent installation, improper maintenance or where adequate care has not been taken to prevent damage to the lighting system. Replacement of Nexxus Lighting components with any other manufacturer will void the entire warranty.

WARRANTY SERVICE CLAIMS:

Nexxus Lighting must issue a Return Material Authorization (RMA) number for all requests for warranty review. To expedite service, please contact Nexxus Lighting Customer Representative: 407-857-9900. If you are unsure whether a situation exists that is covered by this warranty, please contact Nexxus Lighting Customer Service for assistance. In the event of a defect in material or workmanship during the warranty period, Nexxus Lighting will repair or replace (at its own discretion) its products under the conditions of the warranty.

RETURN OF DEFECTIVE PRODUCT:

After contacting Nexxus Lighting, Inc. and receiving the RMA#, the purchaser / user shall promptly return the product after receiving instructions regarding if, when and where to ship product. Product must be returned within 30 days of receiving RMA#, Shipping box must be clearly marked with RMA#. Failure to follow this procedure shall void this warranty. Nexxus Lighting will cover expenses for material but will not cover shipping costs. Products returned without an RMA# will be refused and returned to sender at the senders expense.

REPLACEMENT OF PRODUCT, LIMITS OF LIABILITY:

The foregoing shall constitute the exclusive remedy of the purchaser and the sole liability of Nexxus Lighting, Inc. regarding its products and component warranty. NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE OR IS TO BE IMPLIED. In no event shall Nexxus Lighting, Inc. be liable for any other costs or damages including labor charges, lost profits or revenues, incidental, special or consequential damages. Total liability shall not exceed the total extended purchase price for the product. Nexxus Lighting, Inc. reserves the right to examine all failed Nexxus Lighting, Inc. products and components to determine the cause of failure and patterns of usage and reserves the right to be the sole judge as to whether any product or component is defective and covered under this warranty.

