

Showline

SL BAR 720ZT



QuickStart Guide

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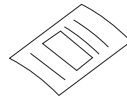
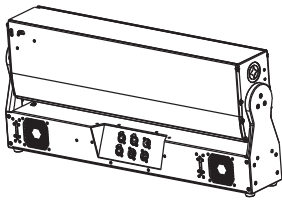
About Quickstart Guide

This Quickstart Guide is intended for a knowledgeable user to unpack, install, and use SL BAR 720ZT in a short time period. For the complete manual in PDF format, please visit our web site at :www.vari-lite.com and click the user manual download link on the product page. The complete manual provides you all information related to accessories, menu structures, DMX channel mapping/modes, and care for your new luminaire.

Included Items

Each SL BAR 720ZT includes the following items:

SL BAR 720ZT



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(this document)

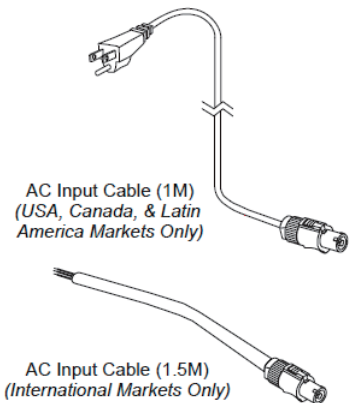


Figure 1: Included Items



Warnings and Notices

When using electrical equipment, basic safety precautions should always be followed including the following:

- READ AND FOLLOW ALL SAFETY INSTRUCTIONS
- Do not use outdoors.
- Do not mount near gas or electric heaters.
- Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
- The light source of this luminaire is not replaceable; when the light source reaches its end of life the whole luminaire shall be replaced.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- Do not use this equipment for other than intended use.

Refer service to qualified personnel.



SAVE THIS DOCUMENT FOR FUTURE REFERENCE! READ COMPLETELY BEFORE INSTALLING AND USING PRODUCT!

WARNING: You must have access to a main circuit breaker or other power disconnect device before installing any wiring. Be sure that power is disconnected by removing fuses or turning the main circuit breaker off before installation. Installing the device with power on may expose you to dangerous voltages and damage the device. A qualified electrician must perform this installation.

WARNING: Refer to National Electrical Code® and local codes for cable specifications. Failure to use proper cable can result in damage to equipment or danger to personnel.

WARNING: This equipment is intended for installation in accordance with the National Electric Code® and local regulations. It is also intended for installation in indoor applications only. Before any electrical work is performed, disconnect power at the circuit breaker or remove the fuse to avoid shock or damage to the control. It is recommended that a qualified electrician perform this installation.

Service and Maintenance

For all service and maintenance issues, please contact your local Vari-Lite office or an Authorized Service Center.

Power Requirements

The SL BAR 720ZT operates on AC input voltages from 100 to 240 VAC.



WARNING: This unit does not contain an ON/OFF switch. Always disconnect power input cable to completely remove power from unit when not in use.

AC Power Operation

When connected to an AC source, the unit operates on 100 to 240 volts AC (+/- 10%, auto-ranging). The luminaire contains an auto-ranging power supply. Each luminaire can draw up to 400 Watts.



WARNING: Maximum amount of units that may be daisy-chained is (A) 3 units 100VAC (15 Amps) or (B) 9 units 240VAC (15 Amps). Refer to [Table 1](#) for detailed information at various voltages.



Note: For wiring of AC input connector, refer to [Connecting SL BAR 720ZT to AC Power](#).

Table 1: SL BAR 720ZT Voltage vs. Current

Voltage (AC)	Total Current(A)	Maximum number of units that can be linked together*
100	4.00	3
110	3.64	4
120	3.33	4
130	3.08	4
140	2.86	5
150	2.67	5
160	2.50	6
170	2.35	6

Voltage (AC)	Total Current(A)	Maximum number of units that can be linked together*
180	2.22	6
190	2.11	7
200	2.00	7
210	1.90	7
220	1.82	8
230	1.74	8
240	1.67	9



WARNING: *These figures are based on the Maximum Allowable Input Current of 15 Amps. Do not overload circuits!



IMPORTANT AC POWER CONNECTION NOTES:

- When using the daisy-chain connection method, only connect SL BAR 720ZT to AC Output Connection of SL BAR 720ZT. DO NOT CONNECT OTHER TYPES OF LUMINAIRES OR DEVICES!
- Only use approved cable types.
- Do not overload circuits!
- Do not connect SL BAR 720ZT to dimmed circuits.

Connecting Power

Units can be powered in one of two ways:

- Direct connection to a AC power source using an AC input cable. For wiring of AC input connector, refer to [Connecting SL BAR 720ZT to AC Power](#).
- Connection from the AC output of another SL BAR 720ZT. When using this method, it is very important not to connect any other type of equipment.



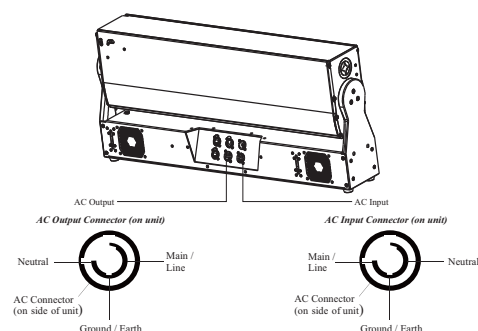
WARNING: Only connect other SL BAR 720ZT to the AC Output (Thru) connector of the other SL BAR 720ZT.

Connecting SL BAR 720ZT LED Luminaires to AC Power

[Table 2, AC Input Connections](#) describes how to connect power to your SL BAR 720ZT. Field wiring of the SL BAR 720ZT is straight forward. A total of 3 wires/conductors is supplied to this unit.

Table 2: AC Input Connections

Wire Color	Purpose
Brown/Black	Main/Line(100 to 240 VAC)
Blue/White	Neutral
Green-Yellow/Green	Ground(Earth)



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Mounting Luminaire

Truss / Hanging Applications

The SL BAR 720ZT is provided with the ability to hang via truss hooks, clamps, etc. (sold separately).

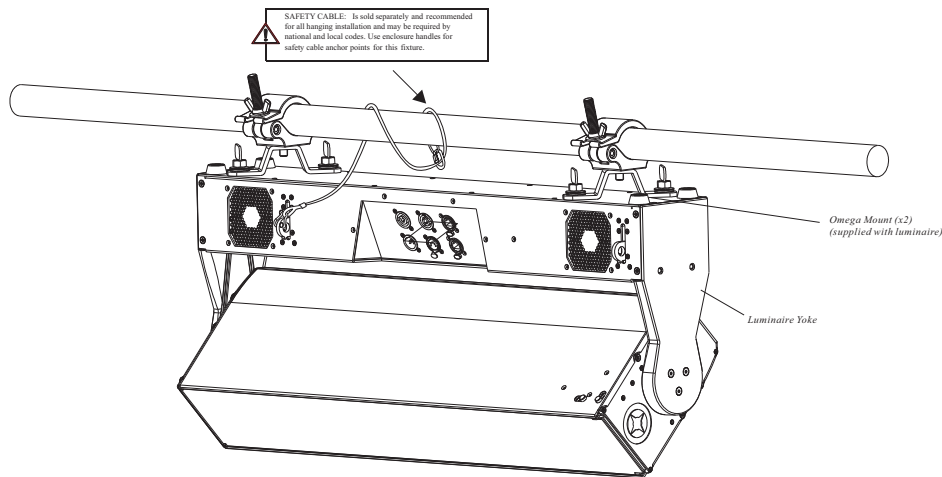


Figure 2: Hanging Application

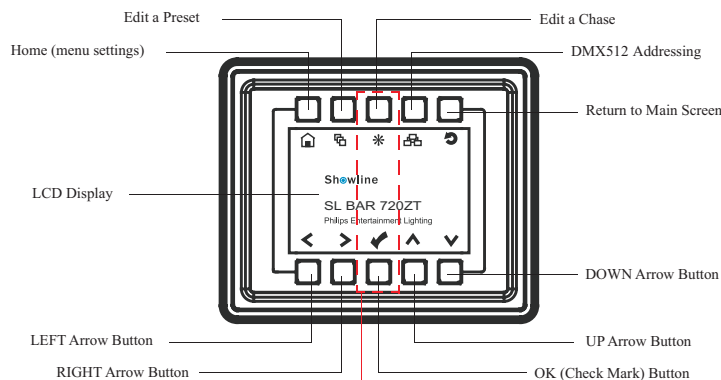
LCD Display and Menu System

The SL BAR 720ZT's LCD Display and Menu System provides local control for accessing the following fixture's settings:

- Presets (Standard and User Defined)
- Color Filter
- Effects (Chases - preloaded and user defined)
- Strobe / Timing
- Settings
- Lock Fixture (to prevent changes)
- Password
- Status

Note: If there are multiple luminaires in a system, changes would need to be made at each LCD Menu as desired. For SL BAR 720ZT menu structure, please refer to the complete user manual

Upon power up, the LCD will display the main screen showing the product type/name. If DMX is enabled, the programmed address will appear after power up.



NOTE: Menu rotates with orientation of Luminaire and menu buttons are always in the same position (with rotation of menu)

To rotate menu 180 degrees manually from current orientation, press and hold the two center buttons for 2 seconds.

Figure 3: Menu System

LCD Display and Menu System Operation

The LCD Display Menu system consists of several categories. Use the Menu Buttons to access and make changes to the menu items. When the desired menu items is reached, press the desired Menu Button to display the menu options and to navigate and configure the menu options as required.

To navigate and access menu settings/selections:

- Step 1. Make sure unit is powered on.
- Step 2. Press the desired button (as shown in [Figure 4](#)) to access menu categories.
- Step 3. Use UP/DOWN/LEFT/RIGHT buttons to navigate through the various options and settings.
- Step 4. Make changes as desired.
- Step 5. Press CHECK MARK (OK) button to accept changes.

Quick Selection Buttons

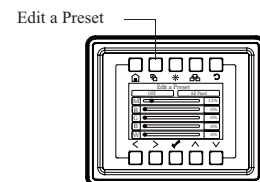
When in Manual Mode, the SL BAR 720ZT features can be accessed via the on-board LCD menu system or via three quick select buttons:

- Edit a Preset Button
- Edit a Chase Button
- DMX Address Button

Edit a Preset Button

To edit and save a preset:

- Step 1. Press Edit a Preset button. Current preset will be shown.
- Step 2. Use LEFT and RIGHT arrow buttons to scroll through all presets.
- Step 3. Once at desired preset, use UP and DOWN arrows to access (highlight) preset parameters. Once in desired parameter, use LEFT and RIGHT arrow buttons to adjust parameter value as desired.
- Step 4. Once all values are adjusted as desired, press OK (Check Mark) button.
- Step 5. Save preset menu option will appear. Use LEFT and RIGHT arrow buttons to select preset number.
- Step 6. If saving preset, press OK (Check Mark) button. Confirm choice.
- Step 7. Preset is now saved.



Edit a Chase Button

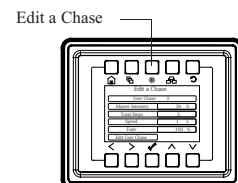
To edit and save a Chase:

- Step 1. Press Edit a Chase button. Current chase will be shown.
- Step 2. Use LEFT and RIGHT arrow buttons to scroll through all chases (Built In and User Chases).



Note: for Built In Chases, only the Speed and Fade parameters may be changed and saved. For User Chases, the Chase Number, Total Steps, Speed, and Fade Parameters may be changed and saved.

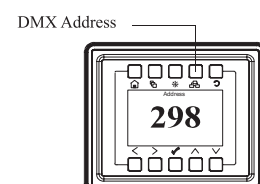
- Step 3. Once at desired Chase, use UP and DOWN arrows to access (highlight) Chase parameters. Once in desired parameter, use LEFT and RIGHT arrow buttons to adjust parameter value as desired.
- Step 4. Once all values are adjusted as desired, press OK (Check Mark) button.
- Step 5. Save Chase menu option will appear. Use LEFT and RIGHT arrow buttons to select Chase number.
- Step 6. If saving Chase, press OK (Check Mark) button. Confirm choice.
- Step 7. Chase is now saved.



DMX Address Button

To edit and save a DMX address:

- Step 1. Press DMX Address button. Current DMX Address will be shown.
- Step 2. Press OK (Check Mark) button to highlight a digit in the DMX address.
- Step 3. Use LEFT and RIGHT arrow buttons to scroll through all digits.
- Step 4. Once at desired digit, use UP and DOWN arrows to change highlighted digit. Once digit is set, use LEFT and RIGHT arrow buttons to set other digits in DMX address.
- Step 5. Once all digits are set in DMX address, press OK (Check Mark) button.
- Step 6. DMX will display and is saved.



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RGBW 8 - Bit Mode

Table 3 provides DMX channel mapping of all DMX512 control values when the SL BAR 720ZT LED Luminaire is in RGBW 8-Bit DMX512 mode (as set by the luminaire’s menu system).

Table 3: SL BAR 720ZT LED Luminaire DMX Channel Mapping (RGBW 8-Bit Mode)

DMX Channel	Parameter	Range DMX	Range%	Default	Description
1	Tilt - High Byte	0-65535	0-100%	32768	16-bit control of Tilt
2	Tilt - High Byte				
3	Master Intensity	0-255	0-100%	0	8-bit control for Intensity of LED settings.
4	Color Presets	0-255	0-100%	0	Variable color Presets as follows... Channel OFF (disabled) DMX 0 - 4 Preset 0 (OFF) DMX 5 - 6 Preset 1 DMX 7 - 8 Preset 2 DMX 9 - 10 Preset 3 DMX 11 - 12 Preset 4 DMX 13 - 14 Preset 5 DMX 15 - 16 Preset 6 DMX 17 - 18 Preset 7 DMX 19 - 20 Preset 8 DMX 21 - 22 Preset 9 DMX 23 - 24 Preset 10 DMX 25 - 26 Preset 11 DMX 27 - 28 Preset 12 DMX 29 - 30 Preset 13 DMX 31 - 32 Preset 14 DMX 33 - 34 Preset 15 DMX 35 - 36 Preset 16 DMX 37 - 38 Preset 17 DMX 39 - 40 Preset 18 DMX 41 - 42 Preset 19 DMX 43 - 44 Preset 20 DMX 45 - 46 Preset 21 DMX 47 - 48 Preset 22 DMX 49 - 50 Preset 23 DMX 51 - 52 Preset 24 DMX 53 - 54 Preset 25 DMX 55 - 56 Preset 26 DMX 57 - 58 Preset 27 DMX 59 - 60 Preset 28 DMX 61 - 62 Preset 29 DMX 63 - 64 Preset 30 DMX 65 - 66 Preset 31 DMX 67 - 68 CF_0_Color OFF DMX 69 - 70 CF_1_White 10000K DMX 71 - 72 CF_2_White 8000K DMX 73 - 74 CF_3_White 6500K DMX 75 - 76 CF_4_White 5600K DMX 77 - 78 CF_5_White 5000K DMX 79 - 80 CF_6_White 4500K DMX 81 - 82 CF_7_White 4000K DMX 83 - 84 CF_8_White 3200K DMX 85 - 86 CF_9_White 3000K DMX 87 - 88 CF_10_White 2700K DMX 89 - 90

Table 3: SL BAR 720ZT LED Luminaire DMX Channel Mapping (RGBW 8-Bit Mode)

DMX Channel	Parameter	Range DMX	Range%	Default	Description	
4	Color Presets	0 - 255	0 - 100%	0	CF_11_Moroccan Pink	DMX 91 - 92
					CF_12_Pink	DMX 93 - 94
					CF_13_Flesh Pink	DMX 95 - 96
					CF_14_Bright Rose	DMX 97 - 98
					CF_15_Follies Pink	DMX 99 - 100
					CF_16_Fuchsia Pink	DMX 101 - 102
					CF_17_Surprise Pink	DMX 103 - 104
					CF_18_Congo Blue	DMX 105 - 106
					CF_19_Blue	DMX 107 - 108
					CF_20_Virgin Blue	DMX 109 - 110
					CF_21_Midnight Maya	DMX 111 - 112
					CF_22_Double C.T Blue	DMX 113 - 114
					CF_23_Slate Blue	DMX 115 - 116
					CF_24_Regal Blue	DMX 117 - 118
					CF_25_Full C.T Blue	DMX 119 - 120
					CF_26_Steel Blue	DMX 121 - 122
					CF_27_Lighter Blue	DMX 123 - 124
					CF_28_Cyan	DMX 125 - 126
					CF_29_Marine Blue	DMX 127 - 128
					CF_30_Soft Green	DMX 129 - 130
					CF_31_Moss Green	DMX 131 - 132
					CF_32_Green	DMX 133 - 134
					CF_33_Fem Green	DMX 135 - 136
					CF_34_JAS Green	DMX 137 - 138
					CF_35_Pale Green	DMX 139 - 140
					CF_36_Spring Yellow	DMX 141 - 142
					CF_37_Yellow	DMX 143 - 144
					CF_38_Deep Amber	DMX 145 - 146
					CF_39_Chrome Orange	DMX 147 - 148
					CF_40_Orange	DMX 149 - 150
					CF_41_Magenta	DMX 151 - 152
					CF_42_Flame Red	DMX 153 - 154
					CF_43_Purple	DMX 155 - 156
					Rotate CW Fast → Slow	DMX 157 - 171
					Rotate ACW Slow → Fast	DMX 172 - 186
					Random Color Fast → Slow	DMX 187 - 201

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Table 3: SL BAR 720ZT LED Luminaire DMX Channel Mapping (RGBW 8-Bit Mode)

DMX Channel	Parameter	Range DMX	Range%	Default	Description
4	Color Presets	0-255	0-100%	0	<p>Chase 1 DMX 202 - 204</p> <p>Chase 2 DMX 205 - 207</p> <p>Chase 3 DMX 208 - 210</p> <p>Chase 4 DMX 211 - 213</p> <p>Chase 5 DMX 214 - 216</p> <p>Chase 6 DMX 217 - 219</p> <p>Chase 7 DMX 220 - 222</p> <p>Chase 8 DMX 223 - 225</p> <p>Chase 9 DMX 226 - 228</p> <p>Chase 10 DMX 229 - 231</p> <p>User Chase 1 DMX 232 - 234</p> <p>User Chase 2 DMX 235 - 237</p> <p>User Chase 3 DMX 238 - 240</p> <p>User Chase 4 DMX 241 - 243</p> <p>User Chase 5 DMX 244 - 246</p> <p>User Chase 6 DMX 247 - 249</p> <p>User Chase 7 DMX 250 - 252</p> <p>User Chase 8 DMX 253 - 255</p>
5	Strobe	0 - 255	0 - 100%	0	<p>Controls Strobe operations as follows...</p> <p>Open DMX 0 - 2</p> <p>Closed DMX 3 - 5</p> <p>Slow Rand DMX 6 - 7</p> <p>Med Rand DMX 8 - 10</p> <p>Fast Rand DMX 11 - 12</p> <p>Strobe Range DMX 13 - 127 (fastest)</p> <p>Pulse + Slow Rand DMX 128-129</p> <p>Pulse + Med Rand DMX 130-131</p> <p>Pulse + Fast Rand DMX 132-133</p> <p>Pulse + Range DMX 134-191</p> <p>Pulse - Slow Rand DMX 192-193</p> <p>Pulse - Med Rand DMX 194-195</p> <p>Pulse - Fast Rand DMX 196-197</p> <p>Pulse - Range DMX 198-255</p>
6	Duration	0 - 255	0 - 100%	0	<p>Strobe's duration, Range is 0-85</p> <p>0 DMX 0</p> <p>1 DMX 1-3</p> <p>x (DMX Value-1)/3+1</p> <p>85 DMX 253-255</p>

Table 3: SL BAR 720ZT LED Luminaire DMX Channel Mapping (RGBW 8-Bit Mode)

DMX Channel	Parameter	Range DMX	Range%	Default	Description
7	Zoom	0-255	0-100%	0	Variable control of zoom
8	Focus Timing	0-255	0-100%	0	Timing control of Tilt
9	Timing	0-255	0-100%	255	Allows for timing control of intensity, color, and zoom parameters. Channel should default to 255 for smoothest actions using console and/or manual fades.- See Timing Chart for more details.
10	Control	0-255	0-100%	0	Set control channel value to desired action, hold value for at least 5 seconds, then turn to 0. Set control channel value to 0 without any scaling. Default Setting on Console =DMX 0-4 DIM Response_Normal =DMX 5-9 DIM Response_Incandescent =DMX 10-14 Dimming Curve_linear =DMX 30-34 Dimming Curve_Square =DMX 35-39 Dimming Curve_S-Curve =DMX 40-44 Diming Curve_PL-Curve =DMX 45-49 Calibration_OFF =DMX 70-74 Calibration_ON =DMX 75-79 Fan_Auto =DMX 80-84 Fan_Off =DMX 85-89 Reserved(Future Use) =DMX 90-250
11	Red1-6	0-255	0-100%	0	8 bit control of Red LEDs from 0 to full
12	Green1-6	0-255	0-100%	0	8 bit control of Green LEDs from 0 to full
13	Blue1-6	0-255	0-100%	0	8 bit control of Blue LEDs from 0 to full
14	White1-6	0-255	0-100%	0	8 bit control of White LEDs from 0 to full

Technical Specification

Source:	6pcs High Power LED
Zoom Angle:	6-50 Degrees
Tilt Movement:	220 deg
Light Output:	>5000lm
Input Voltage:	100V to 240V(+/- 10%, auto-ranging)
Power Consumption:	400 Watts(max).
Frequency:	50/60Hz
Control Protocols:	DMX512(1990) / DMX512A (RDM) / On-Board Menu
Ambient Temperature:	0 to 40 Degrees C (-4 to 104 Degrees F)
Humidity:	5%-95% Non condensing
Cooling:	Fan cooling
Weight:	18 lbs(8.2 kg) - Luminaire only (no mount, AC input cable or accessories)
Housing:	Die Cast aluminium with Powder Coating
IP Rating:	IP20

Note: Common model specifications shown. For specific model specifications, features, and accessories, refer to the product specification sheet for more details.

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RGBW 8-Bit Group Modes

Table 4 provides DMX channel mapping of all DMX512 control values when the SL BAR 720ZT LED Luminaire is operated in various RGBW 8-bit DMX512 Group Control Modes.

Table 4: SL BAR 720ZT LED Luminaire DMX Channel Mapping (RGBW 8-Bit Group Modes)

RGBW 8 BIT MODE		
DMX CHANNEL	6 Group Mode	1 Group Mode
1	Tilt - High Byte	Tilt - High Byte
2	Tilt - Low Byte	Tilt - Low Byte
3	Master Intensity	Master Intensity
4	Color Presets	Color Presets
5	Strobe	Strobe
6	Duration	Duration
7	Zoom	Zoom
8	Focus Timing	Focus Timing
9	Timing	Timing
10	Control	Control
11	Red_1	Red_1-6
12	Green_1	Green_1-6
13	Blue_1	Blue_1-6
14	White_1	White_1-6
15	Red_2	
16	Green_2	
17	Blue_2	
18	White_2	
19	Red_3	
20	Green_3	
21	Blue_3	
22	White_3	
23	Red_4	
24	Green_4	
25	Blue_4	
26	White_4	
27	Red_5	
28	Green_5	
29	Blue_5	
30	White_5	
31	Red_6	
32	Green_6	
33	Blue_6	
34	White_1	

TECHNICAL SUPPORT

GLOBAL 24HR TECHNICAL SUPPORT:

Call: +1 214 647 7880
entertainment.service@signify.com

NORTH AMERICA SUPPORT:

Call: 877-VARI-LITE (877-827-4583)
entertainment.service@signify.com

EUROPEAN CUSTOMER SERVICE CENTER:

Call: +31 (0) 543 542 531
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