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SL PUNCHLITE 220



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IMPORTANT INOFRMATION

Warnings and Notices

b.

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

- a. READ AND FOLLOW ALL SAFETY INSTRUCTIONS.
- c. Do not mount near gas or electric heaters.
- d. Equipment should be mounted in locations and at heights where it will not readily be subject to tampering by unauthorized personnel.
- e. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- f. Do not use this equipment for other than intended use.
- g. Refer service to qualified personnel.

SAVE THESE INSTRUCTIONS.

WARNING: You must have access to a mains circuit breaker or other power disconnect device before installing any wiring. BE sure that power is disconnected by removing fuses or turning the mains 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 Nation 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.

Additional Resources for DMX512

For more information on installing DMX512 control systems, the following publication is available for purchase from the United States Institute for Theatre Technology (USITT), "Recommended Practice for DMX512: A Guide for Users and Installers, 2nd edition" (ISBN: 9780955703522). USITT Contact Information:

USITT

315 South Crouse Avenue, Suite 200 Syracuse, NY 13210-1844 Phone: 1.800.938.7488 or 1.315.463.6463 www.usitt.org

Showline Limited Two-Year Warranty

Showline offers a two-year limited warranty of its luminaires against defects in materials or workmanship from the date of delivery. A copy of the Showline two-year limited warranty containing specific terms and conditions can be obtained by contacting your local Showline office.

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PREFACE

1. About this Manual

The document provides installation and operation instructions for the following products:

• SL PUNCHLITE 220 Luminaire

Please read all instructions before installing or using this product. *Retain this manual for future reference*. Additional product information and descriptions may be found on the product specification sheet.

Note: The SL PUNCHLITE 220 has a universal voltage range of 100 to 240 VAC (auto-ranging).

2. Included Items

Each SL PUNCHLITE 220 luminaire includes the following items:

- SL PUNCHLITE 220 Luminaire
- Quick Start Guide



SL PUNCHLITE 220

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About this Manual

SL PUNCHLITE 220 OVERVIEW

1. SL PUNCHLITE 220 COMPONENTS

Common Luminaire Components



Figure 1: SL PUNCHLITE 220 Common Components

LCD Display / Menu System





Note: For Menu operation and programming details, refer to "LCD Display and Menu System" on page 9.



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INSTALLATION AND SET UP

1. Power Requirements

The SL PUNCHLITE 220 operates on AC input voltages from 100 to 240 VAC.

WARNING! The SL PUNCHLITE 220 does not have an ON/OFF switch. Always disconnect power input cable to completely remove power from the luminaire 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 230 Watts.



WARNING! Maximum amount of fixtures that may be daisy-chained is (A) 6 units $100 \sim 120$ VAC or (B) 15 units $230 \sim 240$ VAC (15 Amps).

Voltage (AC)	Total Current (A)
100	2.30
110	2.1
120	1.91
130	1.77
140	1.64
150	1.53
160	1.43
170	1.35

t (A)	Voltage (AC)	Total Current (A
	180	1.27
	190	1.21
	200	1.15
	210	1.09

220

230

240

Table 1: SL PUNCHLITE 220Voltage (VAC) vs. Current*

Note: For wiring of AC input connector, refer to "Connecting SL PUNCHLITE 220 to AC Power" on page 6.

2. Connecting Power

Units can be powered in one of two ways:

- Direct connection to an AC power source using an AC input cable. For wiring of the AC input connector, refer to "Connecting SL PUNCHLITE 220 to AC Power" on page 6.
- Connection from the AC output of another SL PUNCHLITE 220. When using this method, it is very important not to connect any other type of equipment device.



WARNING! Only connect other SL PUNCHLITE 220 to the AC Output (Thru) connector of a SL PUNCHLITE 220.

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Connecting SL PUNCHLITE 220 to AC Power

Table 2 describes how to connect power to your SL PUNCHLITE 220. Field wiring of the SL PUNCHLITE 220 LED Luminaire is straight-forward. A total of 3 wires/conductors need to be brought to the unit. The following wiring scheme is required:

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

Table 2: SL PUNCHLITE 220AC Input Connections



Figure 3: SL PUNCHLITE 220 AC Input & Output Connections

6 Connecting SL PUNCHLITE 220 to AC Power

3. Connecting to the DMX512 Network

Basic DMX512 installation consists of connecting multiple SL PUNCHLITE 220 units together (up to 15 luminaires) in "daisy-chain" fashion. A cable runs from the control console (or DMX512 control source) to the DMX connector on the first SL PUNCHLITE 220. Another cable runs from the other DMX connector on the first unit to a DMX connector on the next SL PUNCHLITE 220 (or DMX512 device to be controlled).



Figure 4: SL PUNCHLITE 220 DMX512 Input / Output Connections

Note: For more information on DMX512 networking and systems, refer to "Additional Resources for DMX512" on page 1. For SL PUNCHLITE 220 DMX Mapping, refer to "DMX CONTROL" on page 16.



Note: Remaining pins on each connector are not used.

Figure 5: SL PUNCHLITE 220- DMX512 Connections

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4. Mounting Luminaire

Truss / Hanging Applications

The SL PUNCHLITE 220 is provided with the ability to hang via truss hooks, clamps, etc. (sold separately). Simply attach hook, clamp, etc. to the SL PUNCHLITE 220 yoke in the provided M10 holes. It is recommended (and may be required by local and national safety codes) to use and install a safety cable (sold separately) as illustrated in Figure 6. When hanging the fixture, be sure to leave enough space around the luminaire to allow proper, uninterrupted airflow for cooling and movement. Refer to "Luminaire Dimensions" on page 36 for spacing (dimensional) requirements.

Note: Mounting hooks, clamps, safety cables, etc. are sold separately or by others. For mounting accessories available for this product, refer to "Accessories" on page 3.



Figure 6: Mounting the Fixture - Hanging Applications

Floor Mounting

The SL PUNCHLITE 220 is designed to sit directly on its split yoke in a floor installation application. When used in this type of application, be sure to leave enough space around the luminaire to allow proper, uninterrupted airflow for cooling and movement.



OPERATION AND PROGRAMMING

1. LCD Display and Menu System

SL PUNCHLITE 220

The SL PUNCHLITE 220'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 PUNCHLITE 220 menu structure, see "SL PUNCHLITE 220 Menu Tree" on page 11.

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.



Figure 7: LCD Display and Menu System

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2. 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 item 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 and turned on.
- Step 2. Press the desired button (as shown in Figure 8) to access menu categories.
- Step 3. Use UP | DOWN | LEFT | RIGHT arrow buttons to navigate through the various options and settings.
- Step 4. Make changes as desired.

Press CHECK MARK (OK) button to accept changes.



Figure 8: LCD Display and Menu System



3. SL PUNCHLITE 220 Menu Tree



Continued on next page

Figure 9: SL PUNCHLITE 220 Menu Tree(Part 1)

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Figure 10: SL PUNCHLITE 220 Menu Tree(Part 2)



4. Quick Selection Buttons

When in Manual Mode, the SL PUNCHLITE 220's 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 LEFTand 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, 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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Edit a Preset





5. Dimming Curve Selection

Through the menu, you are able to select one of four dimming curves:

- Linear Curve
- PL_Curve
- S_Curve
- Square Curve











Figure 11: SL PUNCHLITE 220 Dimmer Curves

6. Master / Slave Operational Mode

The Master / Slave Operational Mode allows one SL PUNCHLITE 220 to act as the "Master" unit and all other connected units are controlled by this unit. When a unit is set to "Slave" mode, it will only listen to and follow any commands sent from a "Master" unit. Only one "Master" unit is allowed in this type of operation.

To setup a master / slave network:

- Step 1. Set the first device in the DMX512 chain to Master Mode through the unit's menu system.
- Step 2. Set all other connected units to Slave Mode.
- Step 3 The master unit can be controlled via DMX512, RDM or through standalone operation (self-contained network utilizing on-board effects). The slave units will mimic the master unit's operation in all cases.

Note: For more information on DMX512 networking and systems, refer to "Additional Resources for DMX512" on page 1. For SL PUNCHLITE 220 DMX Mapping, refer to "DMX CONTROL" on page 16.



Figure 12: SL PUNCHLITE 220- Master / Slave Configuration

DMX CONTROL

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This section contains information for operating the luminaire using DMX control in Simple 8-bit, RGBW 8-bit, RGBW 16-bit or HSIC (Hue, Saturation, Intensity and Color Correction) modes. For Menu options and detailed information, see "LCD Display and Menu System" on page 9.

Note: These tables assume a DMX start address of 1. When a different starting address is used, this address becomes channel 1 function and other functions follow in sequence.

1. SL PUNCHLITE 220 DMX Mapping

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Simple 8-Bit Mode

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Table 3 provides DMX channel mapping of all DMX512 control values when the SL PUNCHLITE 220 LED Luminaire is in simple 8-bit DMX512 mode (as set by the luminaire's menu system).

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DMX Channel	Parameter	Range DMX	Range%	Default - recom- mended console default values	Description	
1	Master Intensity	0 - 255	0 - 100%	0	8 bit control for Intensity of LED settings.	
2	Strobe	0 - 255	0 - 100%	0	$\begin{array}{llllllllllllllllllllllllllllllllllll$	
3	Zoom	0 - 255	0 - 100%	0	Variable control of zoom from 12°-45°	
4	Control	0 - 255	0 - 100%	0	Functions of the SL Series products. 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 ConsoleDIM Response _Normal= DMX 0 - 4DIM Response IncandescentDimming Curve_linear= DMX 30 - 34Dimming Curve_Square= DMX 40 - 44Dimming Curve_PL-CurveCalibration_OFF= DMX 70 - 74Calibration_OFF= DMX 80 - 84Fan_Off= DMX 85 - 89Reserves(Future use)= DMX 90 - 250	
5	Red 1-3	0 - 255	0 - 100%	0	8 bit control of Red LEDs from 0 to full.	
6	Green 1-3	0 - 255	0 - 100%	0	8 bit control of Green LEDs from 0 to full.	
7	Blue 1-3	0 - 255	0 - 100%	0	8 bit control of Blue LEDs from 0 to full.	
8	White 1-3	0 - 255	0 - 100%	0	8 bit control of White LEDs from 0 to full.	

Table 3: SL PUNCHLITE 220 DMX Channel Mapping (Simple 8 - Bit Mode)

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2. Simple 8-Bit Group Modes

Table 4 provides DMX channel mapping of all DMX512 control values when the SL PUNCHLITE 220 LED Luminaire is operated in various Simple 8-bit DMX512 Group Control Modes.

DMX CHANNEL	3 Group MODE	1 Group MODE
1	Master Intensity	Master Intensity
2	Strobe	Strobe
3	Zoom	Zoom
4	Control	Control
5	Red_1	Red_1-3
6	Green_1	Green_1-3
7	Blue_1	Blue_1-3
8	White_1	White_1-3
9	Red_2	
10	Green_2	
11	Blue_2	
12	White_2	
13	Red_3	
14	Green_3	
15	Blue_3	
16	White_3	

3. RGBW 8 - Bit Mode

Table 5 provides DMX channel mapping of all DMX512 control values when the SL PUNCHLITE 220 LED Luminaire is in RGBW 8-bit DMX512 mode (as set by the luminaire's menu system).

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

Table 5: SL PUNCHLITE 220 DMX Channel Mapping (RGBW 8-Bit Mode)



DMX Channel	Parameter	Range DMX	Range%	Default - recom- mended console default values	Description	
					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
2	Color Presets	0-255	0-100%	0	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_Dluble 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

Table 5: SL PUNCHLITE 220 DMX Channel Mapping (RGBW 8-Bit Mode)

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

DMX Channel	Parameter	Range DMX	Range%	Default - recom- mended console default values	Description
5	Zoom	0 - 255	0 - 100%	255	Variable control of zoom from $8 - 40^{\circ}$
6	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.
7	Control	0 - 255	0 - 100%	0	Functions of the SL Series products. Set controlchannel value to desired action,hold value for atleast 5 seconds ,then turn to 0.Set control channel value to 0 without any scaling.Default Setting on Console = DMX 0-4DIM Response _Normal = DMX 5 - 9DIM Response _Normal = DMX 10 - 14Dimming Curve_linear = DMX 30 - 34Dimming Curve_Square = DMX 35 - 39Dimming Curve_Square = DMX 45 - 49Calibration_OFF = DMX 45 - 49Calibration_OFF = DMX 70 - 74Calibration_ON = DMX 75 - 79Fan_Auto = DMX 80 - 84Fan_Off = DMX 85 - 89Reserves(Future use) = DMX 90 - 250
8	Red 1-3	0 - 255	0 - 100%	0	8 bit control of Red LEDs from 0 to full.
9	Green 1-3	0 - 255	0 - 100%	0	8 bit control of Green LEDs from 0 to full.
10	Blue 1-3	0 - 255	0 - 100%	0	8 bit control of Blue LEDs from 0 to full.
11	White 1-3	0 - 255	0 - 100%	0	8 bit control of White LEDs from 0 to full.

Table 5: SL PUNCHLITE 220 DMX Channel Mapping (RGBW 8-Bit Mode)

4. RGBW 8-Bit Group Modes

Table 6 provides DMX channel mapping of all DMX512 control values when the SL PUNCHLITE 220 LED Luminaire is operated in various RGBW 8-bit DMX512 Group Control Modes.

Table 6: SL PUNCHLITE 220 LED Luminaire DMX Channel Mapping (RGBW 8-Bit Group Modes)

RGBW 8 BIT MODE					
DMX CHANNEL	3 Group MODE	1 Group MODE			
1	Master Intensity	Master Intensity			
2	Color Presets	Color Presets			
3	Strobe	Strobe			
4	Duration	Duration			
5	Zoom	Zoom			
6	Timing	Timing			
7	Control	Control			
8	Red_1	Red_1-3			
9	Green_1	Green_1-3			
10	Blue_1	Blue_1-3			
11	White_1	White_1-3			
12	Red_2				
13	Green_2				
14	Blue_2				
15	White_2				
16	Red_3				
17	Green_3				
18	Blue_3				
19	White_3				



5. RGBW 16 - Bit Mode

Table 7 provides DMX channel mapping of all DMX512 control values when the SL PUNCHLITE 220 LED Luminaire is in RGBW 16-bit DMX512 mode (as set by the luminaire's menu system).

DMX Channel	Parameter	Range DMX	Range%	Default - recom- mended console default values	Description	
1	Master Intensity High					
2	Master Intensity Low	0 - 65535	0 - 100%	0	16 bit control for Intensity	of LED settings.
3	Color Presets	0 255	0 100%	0	Variable Color Presets of follows	
-		0-255	0 - 10070	v	Channel OFF (displated)	DMV0 4
					Channel OFF (disabled)	DMX 0 - 4
					Preset 0 (OFF)	DMX 5 - 0
					Preset 2	DMA / - 8
					Preset 2	DMX 9 - 10
					Preset 4	DMA 11 - 12 DMX 12 - 14
					Preset 4	DMA 15 - 14
					Preset 6	DMA 15 - 10
					Preset 7	DMA 17 - 18
					Preset /	DMX 19 - 20
					Preset 0	DMX 21 - 22
					Preset 10	DMX 25 - 24
					Preset 10	DMX 25 - 20
					Preset 12	DWIX 27 - 20
					Preset 12	DMX 29 - 30
					Preset 14	DMX 31 - 32
					Preset 15	DMX 35 - 34
					Preset 16	DMA 55 - 50
					Preset 17	DMX 37 - 30
					Preset 18	DMX 41 - 42
					Preset 19	DMX 41 - 42
					Preset 20	DMX 45 - 46
					Preset 21	DMX 45 - 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 7: SL PUNCHLITE 220 DMX Channel Mapping (RGBW 16-Bit Mode)

Table 7: SL PUNCHLITE 220 DMX Channel Mapping (RGBW 16-Bit Mode)

DMX Channel	Parameter	Range DMX	Range%	Default - recom- mended console default values	Description	
					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_Dluble 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
3	Color Presets	0 - 255	0 - 100%	0	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

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

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Table 7: SL PUNCHLITE 220 DMX Channel Mapping (RGBW 16-Bit Mode)

DMX Channel	Parameter	Range DMX	Range%	Default - recom- mended console default values	Description
6	Zoom	0 - 255	0 - 100%	0	Variable control of zoom from $8 - 40^{\circ}$
7	Intensity Timing	0 - 255	0 - 100%	255	Allows for timing control of Intensity. Channel should default to 255 for smoothest actions using console and /or manual fades.
8	Color Timing	0 - 255	0 - 100%	255	Allows for timing control of colors. Channel should default to 255 for smoothest actions using console and / or manual fades.
9	Zoom Timing	0 - 255	0 - 100%	255	Allows for timing control of zoom.
10	Control	0 - 255	0 - 100%	0	Functions of the SL Series products. 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 0-4DIM Response_Normal= DMX 10 - 14Dimming Curve_linear= DMX 30 - 34Dimming Curve_Square= DMX 40 - 44Dimming Curve_PL-Curve= DMX 40 - 44Dimming Curve_PL-Curve= DMX 70 - 74Calibration_OFF= DMX 80 - 84Fan_Auto= DMX 80 - 84Fan_Off= DMX 90 - 250
11 12	Red 1-3 High Red 1-3 Low	0 - 65535	0 - 100%	0	16 bit control of Red LEDs from 0 to full.
13 14	Green 1-3 High Green 1-3 Low	0 - 65535	0 - 100%	0	16 bit control of Green LEDs from 0 to full.
15 16	Blue 1-3 High Blue 1-3 Low	0 - 65535	0 - 100%	0	16 bit control of Blue LEDs from 0 to full.
17 18	White 1-3 High White 1-3 Low	0 - 65535	0 - 100%	0	16 bit control of White LEDs from 0 to full.

6. RGBW 16 - Bit Group Mode

Table 8 provides DMX channel mapping of all DMX512 control values when the SL PUNCHLITE 220 LED Luminaire is operated in various RGBW 16-bit DMX512 Group Control Modes.

Table 8: SL PUNCHLITE 220 LED Luminaire DMX	K Channel Mapping (RGBW 16-Bit	Group Modes)
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RGBW 16 BIT MODE					
DMX CHANNEL	3 Group MODE	1 Group MODE			
1	Master Intensity - High	Master Intensity - High			
2	Master Intensity - Low	Master Intensity - Low			
3	Color Presets	Color Presets			
4	Strobe	Strobe			
5	Duration	Duration			
6	Zoom	Zoom			
7	Intensity Timing	Intensity Timing			
8	Color Timing	Color Timing			
9	Zoom Timing	Zoom Timing			
10	Control	Control			
11	Red_1 - High Byte	Red_1-3 - High Byte			
12	Red_1 - Low Byte	Red_1-3 - Low Byte			
13	Green_1 - High Byte	Green_1-3 - High Byte			
14	Green_1 - Low Byte	Green_1-3 - Low Byte			
15	Blue_1 - High Byte	Blue_1-3 - High Byte			
16	Blue_1 - Low Byte	Blue_1-3 - Low Byte			
17	White_1 - High Byte	White_1-3 - High Byte			
18	White_1 - Low Byte	White_1-3 - Low Byte			
19	Red_2 - High Byte				
20	Red_2 - Low Byte				
21	Green_2 - High Byte				
22	Green_2 - Low Byte				
23	Blue_2 - High Byte				
24	Blue_2 - Low Byte				
25	White_2 - High Byte				
26	White_2 - Low Byte				
27	Red_3 - High Byte				
28	Red_3 - Low Byte				
29	Green_3 - High Byte				
30	Green_3 - Low Byte				
31	Blue_3 - High Byte				
32	Blue_3 - Low Byte				
33	White_3 - High Byte				
34	White_3 - Low Byte				

7. HSIC Mode

Table 9 provides DMX channel mapping of all DMX512 control values when the SL PUNCHLITE 220 LED Luminaire is in HSIC (Hue, Saturation, Intensity, and Color Correction) DMX512 mode (as set by the luminaire's menu system).

DMX Channel	Parameter	Range DMX	Range%	Default - recom- mended console default values	Description
1	Master Intensity	0 - 255	0 - 100%	0	8 bit control for Intensity of LED settings.
2	Strobe	0 - 255	0 - 100%	0	Controls strobe operations as followsOpenDMX 0 - 2ClosedDMX 3 - 5Slow RandDMX 6 - 7Med RandDMX 11 - 12Strobe RangeDMX 13 - 127 (faster)Pulse + Slow Rand= DMX 128-129Pulse + Med Rand= DMX 130-131Pulse + Fast Rand= DMX 132-133Pulse + Fast Rand= DMX 134-191Pulse - Slow Rand= DMX 192-193Pulse - Med Rand= DMX 194-195Pulse - Fast Rand= DMX 194-195Pulse - Range= DMX 198-255
3	Duration	0 - 255	0 - 100%	0	Strobe's duration, Range is 0-85 0 = DMX 0 1 = DMX 1-3 x = (DMX Value-1)/3+1 85 = DMX 253-255
4	Zoom	0 - 255	0 - 100%	0	Variable control of zoom from $8 - 40$ °
5	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.
6	Control	0 - 255	0 - 100%	0	Functions of the SL Series products. 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 0-4DIM Response_Normal= DMX 10-14Dimming Curve_linear= DMX 30-34Dimming Curve_Square= DMX 40-44Dimming Curve_PL-Curve= DMX 45-49Calibration_OFF= DMX 75-79Reserves(Future Use)= DMX 80-250
7	Hue 1-3 - High Byte Hue 1-3 - Low Byte	0 - 65535	0 - 100%	0	16 bit control of Hue 0 - 359°
9	Saturation 1-3	0 - 255	0 - 100%	0	8 bit control of Saturation
10	Intensity 1-3	0 - 255	0 - 100%	0	8 bit control of Intensity
11	CCT 1-3	0 - 255	0 - 100%	0	Variable control of correlated color temperature from Channel OFF (disabled) DMX 0-5 2700K - 6500K DMX 6 - 255

Table 9: SL PUNCHLITE 220 DMX Channel Mapping (HSIC Mode)



8. HSIC Group Modes

Table 10 provides DMX channel mapping of all DMX512 control values when the SL PUNCHLITE 220 LED Luminaire is operated in various HSIC DMX512 Group Control Modes.

Table 10: SL PUNCHLITE 2	20 LED Luminaire	DMX Channel	Mapping (HSIC	Group Modes)
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HSIC MODE				
DMX CHANNEL	3 Group MODE	1 Group MODE		
1	Master Intensity	Master Intensity		
2	Strobe	Strobe		
3	Duration	Duration		
4	Zoom	Zoom		
5	Timing	Timing		
6	Control	Control		
7	Hue_1 - High Byte	Hue_1-3 - High Byte		
8	Hue_1 - Low Byte	Hue_1-3 - Low Byte		
9	Saturation_1	Saturation_1-3		
10	Intensity_1	Intensity_1-3		
11	CCT_1	CCT_1-3		
12	Hue_2 - High Byte			
13	Hue_2 - Low Byte			
14	Saturation_2			
15	Intensity_2			
16	CCT_2			
17	Hue_3 - High Byte			
18	Hue_3 - Low Byte			
19	Saturation_3			
20	Intensity_3			
21	CCT_3			

9. DMX Timing Channel Detail

Timing channel control improves the timed moves of certain groups of parameters. The SL PUNCHLITE 220 LED Luminaire provides timing channels in 16-bit mode (one for intensity time and one for color time) and one timing channel in 8-bit (color and intensity timing combined). The luminaire uses its timing channel value to calculate a smooth continuous operation for a given time and transition.

Guidelines:

- Timing channels support time values from zero to 60 minutes.
- To use a timing channel instead of console timing, it is recommended to set the timing channel to the desired value and set cue and/or console cue fade time to zero. A combination of time controls can produce unexpected results.
- The default value setting in the profile should be 255 (proportional control) to allow smooth operation when using console timing.
- The timing channel data should change as a snap. A zero value will give the fastest operation, however, without any smoothing this can appear "steppy" in console timed moves.

Refer to "DMX Timing Channel Detail" for more information.

% Value	DMX	= Seconds (unless noted)
0	0	0 (Full Speed)
	1	0.2
	2	0.4
1	3	0.6
	4	0.8
2	5	1
	6	1.2
	7	1.4
3	8	1.6

Table 11: SL PUNCHLITE 220Timing Channel Detail

% Value	DMX	= Seconds (unless noted)
	9	1.8
4	10	2
	11	2.2
	12	2.4
5	13	2.6
	14	2.8
6	15	3
	16	3.2
	17	3.4
7	18	3.6
	19	3.8
8	20	4
	21	4.2
	22	4.4
9	23	4.6
	24	4.8
10	25	5
	26	5.2
	27	5.4
11	28	5.6
	29	5.8
	30	6
12	31	6.2
	32	6.4
13	33	6.6
	34	6.8
	35	7
14	36	7.2
	37	7.4
15	38	7.6
	39	7.8
	40	8
16	41	8.2
	42	8.4
17	43	8.6
	44	8.8
	45	9
18	46	9.2
	47	9.4
19	48	9.6
	49	9.8
	50	10
20	51	10.2
	52	10.4
	53	10.6
21	54	10.8
	55	11
22	56	11.2
	57	11.4
	58	11.6
23	59	11.8

% Value	DMX	= Seconds (unless noted)
	60	12
24	61	12.2
	62	12.4
	63	12.6
25	64	12.8
	65	13
26	66	13.2
~ ~	67	13.4
	68	13.6
27	69	13.8
	70	14
28	71	14.2
	72	14.4
	73	14.6
29	74	14.8
	75	15
30	76	15.2
	77	15.4
	78	15.6
31	79	15.8
	80	16
	81	16.2
32	82	16.4
02	83	16.6
33	84	16.8
	85	17
	86	17.2
34	87	17.2
01	88	17.6
35	89	17.8
	90	18
	91	18.2
36	92	18.4
50	93	18.6
37	94	18.6
51	95	19
	96	19.2
3.8	97	19.2
50	08	19.4
30	20	19.0
57	100	20
	101	20
40	101	21
40	102	22
	103	23
41	104	24
41	105	25
40	106	26
42	107	27
	108	28
12	109	29
43	110	30



% Value	DMX	= Seconds (unless noted)
	111	31
44	112	32
	113	33
	114	34
45	115	35
	116	36
46	117	37
	118	38
	119	39
47	120	40
	121	41
48	122	42
	123	43
	124	44
49	125	45
	126	46
	127	47
50	128	48
	129	49
51	130	50
	131	51
	132	52
52	133	53
52	134	54
53	135	55
55	136	56
	130	57
54	138	58
51	130	59
55	140	60
	141	61
	142	62
56	143	63
	144	64
57	145	65
	146	66
	147	67
58	148	68
50	140	69
59	150	70
.,	150	71
	152	72
60	152	72
00	155	74
	155	75
61	155	13
01	150	/0
62	15/	//
02	150	/8
	139	/9
62	100	δU 0.1
0.5	101	81

% Value	DMX	= Seconds (unless noted)
	162	82
64	163	83
	164	84
	165	85
65	166	86
	167	87
66	168	88
	169	89
	170	90
67	171	91
	172	92
68	173	93
	174	94
	175	95
69	176	96
	177	97
	178	98
70	179	99
	180	100
71	181	101
11	182	102
	183	102
72	185	104
12	184	105
72	185	105
/5	180	100
	187	107
74	188	108
/4	189	110
75	190	110
/5	191	111
	192	112
76	193	113
/6	194	114
	195	115
11	196	110
	197	117
	198	118
78	199	119
	200	120
79	201	121
	202	122
	203	123
80	204	124
	205	125
81	206	126
	207	127
	208	128
82	209	129
	210	130
	211	131
83	212	132



% Value	% Value DMX	
	213	133
84	214	134
	215	135
	216	136
85	217	137
	218	138
86	219	139
	220	140
	221	141
87	222	142
	223	143
88	224	144
	225	145
	226	146
89	227	147
	228	148
	229	149
90	230	150
	231	151
91	232	152
	233	153
	234	154
92	235	155
	236	156
93	237	157
	238	158
	239	159
94	240	160
	241	161
95	242	162
	243	163
	244	164
96	245	165
	246	5 Minutes
97	247	15 Minutes
	248	30 Minutes
	249	60 Minutes
98	250*	60mS
	251*	80mS
99	252*	100mS
	253*	120mS
	254*	140mS
100	255*	160mS
	(Default)	

Note: DMX values 250 to 255 provide smoothing when using console fade timing. DMX value 255(recommended default) will provide the smoothest timing.

RDM PARAMETER IDS

1. SL PUNCHLITE 220 RDM Parameter IDs

The following tables outline and describe all the RDM parameters Ids associated with SL PUNCHLITE 220 LED Luminaires.

- Table 12, "SL PUNCHLITE 220 RDM Product Parameters IDs"
- Table 13, "SL PUNCHLITE 220 RDM UID"
- Table 14, "SL PUNCHLITE 220 RDM Parameters IDs"
- Table 15, "SL PUNCHLITE 220 RDM Manufacturer IDs" on page 38
- Table 16, "SL PUNCHLITE 220 RDM Manufacturer Specific PIDs" on page 38

Table 12: SL PUNCHLITE 220 RDM Product Parameters IDs

Model ID	Manufacturer	Model Description	Product Category
0x1210	Philips Entertain. Lighting Asia	SL PAR 220 ZOOM	0x0509

Table 13: SL PUNCHLITE 220 RDM UID

UID						
MSB of ESTA	LSB of ESTA	1st of	2nd of	3rd of	4th of	
50H	41H	Unique Seq	Unique Seq	Unique Seq	Unique Seq	

Table 14: SL PUNCHLITE 220 RDM Parameters IDs

Get Allowed	Set Allowed	RDM Parameter IDs Value Comment				
		Category - Network M	lanagement			
		DISC_UNIQUE_BRANCH	0x0001			
		DISC_MUTE	0x0002			
		DISC_UN_MUTE	0x0003			
		PROXIED_DEVICES	0x0010			
		PROXIED_DEVICES_COUNT	XIED_DEVICES_COUNT 0x0011			
		COMMS_STATUS	0x0015			
Category - Status Collection						
	QUEUED_MESSAGE		0x0020			
		STATUS_MESSAGES	0x0030			
		STATUS_ID_DESCRIPTION	0x0031			
		CLEAR_STATUS_ID	0x0032			
		SUB_DEVICE_STATUS_REPORT_THRESHOLD	0x0033			
		Category - RDM In	formation			
		SUPPORTED_PARAMETERS	0x0050	Support required only if supporting Parameters beyond the minimum required set.		
		PARAMETER_DESCRIPTION	0x0051	Support required for Manufacture -Specific PIDs exposed in SUPPORTED_PARAMETERS message.	1 1 1	

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Table 14: SL PUNCHLITE 220 RDM Parameters IDs

Get Allowed	Set Allowed	RDM Parameter IDs	DM Parameter IDs Value Comment				
	-	Category - Product I	nformation				
		DEVICE_INFO	0x0060				
		PRODUCT_DETAIL_ID_LIST	0x0070				
		DEVICE_MODEL_DESCRIPTION	0x0080				
		MANUFACTURER_LABEL	ACTURER_LABEL 0x0081				
		DEVICE_LABEL	DEVICE_LABEL 0x0082				
		FACTORY_DEFAULTS	0x0090				
		LANGUAGE_CAPABILITIES	0x00A0				
		LANGUAGE	0x00B0				
		SOFTWARE_VERSION_LABEL	0x00C0				
		BOOT_SOFTWARE_VERSION_ID	0x00C1				
		BOOT_SOFTWARE_VERSION_LABLE	0x00C2				
		Category - DMX5.	12 Setup	1			
		DMX_PERSONALITY	0x00E0				
		DMX_PERSONALITY_DESCRIPTION	0x00E1				
		DMX_START_ADDRESS	0x00F0	Required if device uses a DMX Slot			
		SLOT_INFO	0x0120				
		SLOT_DESCRIPTION	0x0121				
		DEFAULT_SLOT_VALUE	0x0122				
		Category - Sensors	s 0x02xx				
		SENSOR_DEFINITION	0x0200				
		SENSOR_VALUE	0x0201				
		RECORD_SENSORS	0x0202				
		Category - Dimmer Settings 0xt	03xx - FUTURE USE				
	1	Category - Power / Lamp	Settings 0x04xx				
		DEVICE_HOURS	0x0400				
		LAMP_HOURS	0x0401				
		LAMP_STRIKES	0x0402				
		LAMP_STATE	0x0403				
		LAMP_ON_MODE	0x0404				
		DEVICE_POWER_CYCLES	0x0405				
	_	Category - Display Set	tings 0x05xx				
		DISPLAY_INVERI	0x0500				
-	•	DISPLAY_LEVEL	0x0501				
_	_	DAN INVEDT	0-0(00				
-	-		0x0600				
		DANI TILT SWAD	0x0001				
			0.0002				
		REAL_TIME_CLOCK	0x0603				
		IDENTIFY DEVICE	0x1000				
		RESET DEVICE	0x1001		—		

Table 14: SL PUNCHLITE 220 RDM Parameters IDs

Get Allowed	Set Allowed	RDM Parameter IDs	Value	Comment	Implemented
		POWER_STATE	0x1010		
		PERFORM_SELFTEST	0x1020		
		SELF_TEST_DESCRIPTION	0x1021		
		CAPTURE_PRESET	0x1030		
		PRESET_PLAYBACK	0x1031		

Table 15: SL PUNCHLITE 220 RDM Parameter Status IDs

Manufacturer Specific messages are in the range of 0x8000 - 0xFFDF. Each Manufacturer-specific Status ID shall have a unique meaning, which shall be consistent across all products having a given Manufacturer ID. See Table B-2, ANSI E1.20-2010

Status ID Message	Value	Data Value 1	Data Value 2	Status ID Description
8100H		00H	00H	ALL OK

Get Allowed	Set Allowed	RDM Parameter IDs	Туре	Length	Unit	Prefix	Min	Max	Default	Description
	Cate	gory - Manufacturer D	efined PIDs	s - Range is 0:	x80000-0xfj	fdf(See ANS	SI E1.20-20	10 Standara	l, Table A-3)	
•		8A00H	U8	1	NONE	NONE	0	100	100	DIMMER
		8A04H	U8	1	NONE	NONE	0	100	100	Dimmer RED
		8A05H	U8	1	NONE	NONE	0	100	100	Dimmer GREEN
		8A06H	U8	1	NONE	NONE	0	100	100	Dimmer BLUE
		8A07H	U8	1	NONE	NONE	0	100	100	Dimmer WHITE
		8AB2H	U8	1	NONE	NONE	1	18	1	Chase
		8AB0H	U8	1	NONE	NONE	0	43	0	Color Filter
		8AB1H	U8	1	NONE	NONE	0	31	0	Preset
		8A92H	U8	1	NONE	NONE	0	255	0	Strobe
		8A94H	U8	1	NONE	NONE	0	85	0	Duration
		8AC0H	U8	1	NONE	NONE	0	255	255	Intensity Timing
		8AC2H	U8	1	NONE	NONE	0	255	255	Color Timing
		8A40H	U8	1	NONE	NONE	0	1	0	Link Mode
•		8A42H	U8	1	NONE	NONE	0	1	0	Incandescent Effect
•		8AA1H	U8	1	NONE	NONE	0	3	0	Dimming Curve
		8A0CH	U8	1	NONE	NONE	0	3	0	DMX FAIL MODE
		8AA0H	U8	1	NONE	NONE	0	4	0	Backlight off time
		8AA2H	U8	1	NONE	NONE	0	94	0	Power Up Setup
		8A44H	U8	1	NONE	NONE	0	1	0	Calibration ON/OFF Setur
		8A41H	U8	1	NONE	NONE	0	1	0	Lock Fixture
		8A93H	U8	1	NONE	NONE	0	255	0	ZOOM

Table 16: SL PUNCHLITE 220 RDM Parameter Specific PIDs

CLEANING AND CARE



WARNING! All cleaning should be performed with power completely removed from the luminaire. Never remove protective covers when luminaire is powered. Wear appropriate protective eye wear and gloves when cleaning the fixture. All service and maintenance, other than described herein, should be performed by a qualified technician or Authorized Service Center.

1. Special Cleaning and Care Insturctions

Being a solid-state fixture, and unlike most fixtures, the SL PUNCHLITE 220 requires very little routine maintenance by the user. This section covers portions of the luminaire that can be removed for cleaning.

Take special care when it comes to cleaning from lens assembly. Additional care needs to be taken with the plastic components because they are much easier to scratch or damage than glass.

- Lint free lens tissue
- Lint or powder free gloves
- Reagent grade isopropyl alcohol*
- A mild soap solution

Note: *Reagent grade isopropyl alcohol is good to use on the SL PUNCHLITE 220 plastic optics with anti-reflection coatings.

If the lens is still dirty after using isopropyl alcohol, for instance if fingerprints or oil is just redistributed and not cleaned off the optic, then a mild soap and water solution can be used to gently wash the lens. Repeat the cleaning with isopropyl alcohol to eliminate streaks and soap residue.



WARNING! Under no circumstances should ammonia-based cleaners, acetone, or other harsh solvents be used on or near the SL PUNCHLITE 220. These types of cleaners or solvents can permanently damage the optics or housings of the fixture.

If you have any questions regarding the use or care of your SL PUNCHLITE 220, please contact Showline technical support or your local Authorized Dealer.

2. Front Lens Cleaning

To clean the front lens:

- Step 1. Turn Off luminaire and allow to cool completely.
- Step 2. Apply a small amount of reagent grade isopropyl alcohol to lint-free lens tissue.
- Step 3. Wipe all debris, dirt, fingerprints, etc. from lens.
- Step 4. Using a second lint-free lens tissue, wipe off any alcohol residue.

3. Service and Maintenance

For all other service and maintenance issues, please contact your local Showline office or an Authorized Service Center.



WARNING! Disassembly (other than as described herein), alterations, unauthorized service, etc. will void the product warranty. Contact your local Showline office or an Authorized Service Center for technical support and service.

TECHNICAL SPECIFICATIONS

1. OPERATIONAL SPECIFICATIONS

Source:	18 pcs RGBW LED Array
Beam Angle:	4-40 Degrees
Light Output:	> 3800 lumens
Color Temerature:	2700 - 6500K (user adjustable)
Input Voltage:	100V to 240V(+/- 10%, auto-ranging)
Power Consumption:	230 Watts(max).
Frequency:	50/60Hz
Control Protocols:	DMX512(1990) / DMX512A (RDM) / On-Board Menu
Ambient Temperature:	-20 to 40 Degrees C (-4 to 104 Degrees F)
Humidity:	5%-95% Non condensing
Cooling:	Silent Passive Cooling
Weight:	9.5 kg - Luminaire only (no mount, AC input cable or accessories)
Housing:	Die Cast luminium with Powder Coating
Compliance:	CE Marked (International models)
IP Rating:	IP65

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

CE

2. Luminaire Dimensions









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