RAIDEN SOFTWARE MANUAL



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Chapter 1: Getting Started

1-1. Minimum System Requirements

CPU: 1 GHz Processor or higher.
RAM: 1 GB RAM.
HDD: 40MB available space.
OS: Microsoft Windows® 7, Windows 8/8.1, and Windows 10
Screen Resolution: 1024 x 768 or higher (Recommend Resolution 1920 x 1080).
Others: .NET Framework 4.5

1-2. Installation

Administrator Privileges

When installing the client software, make sure that the user account has administrator privileges to correctly install the software. Otherwise, right-click on the software icon and then click "Run as administrator". When prompted for an administrator password, input an applicable administrator username and password before continuing. If the above case is not possible, contact your system administrator or IT personnel before installation.

Disabling Anti-Virus Programs

Before installing the client software, you should disable your anti-virus programs (e.g., Windows Defender) or allow exclusion before and during the installation.

Anti-virus programs will often detect false positives and will automatically quarantine or delete files that they suspect as malwares. If the anti-virus programs accidentally delete a part or a complete file during the installation, the client software may not be properly installed.

You can usually disable an anti-virus program by right clicking the taskbar icon and selecting "Disable" from the shortcut menu. For more information about disabling your anti-virus program, refer to the vendor of that software. After you have finished installing the client software, be sure to restart your anti-virus software.

If the above case is not possible due to system administration lock-down, contact your system administrator or IT personnel before installation.



1-3. Hardware Condition Check

When starting the Configuration Tool, the software will check current hardware condition. You may confirm the driver status in this page or continue without installing the driver.

arav	vare Condit		СК		
	Driver Installed	d)
	Refresh			Continue	

① Driver Check

If applicable driver is not yet installed, **[INSTALL DRIVER]** button will be shown. User <u>must</u> first connect the Lightbar Unit to the PC via a USB cable, and then click **[INSTALL DRIVER]** to install the driver for the controller module. User may require administrator permission on the PC in order to install the driver. Contact your IT administrator if you are unable to install.

• The [INSTALL DRIVER] button is not shown if the driver has been installed already.



1-4. Critical Firmware Update Check

If this current software update contains a critical firmware update. Message will prompt to remind that it is required that all serial-bus controllers to be updated for necessary settings to be functioned correctly.

Click "Do not show this message again." to disable the prompt until next software update.

		PROGRAMMA LIGHTB	
Creat Open			
	OK	Do not show this message again.	

1-5. Overview



① Create New Configuration

- Click to start with a new configuration of lightheads for a lightbar.

	CONFIGURATION	PRESET
Î	Configure exact lighthead size, position and color to match your	actual lightbar. Right click on lighthead to split or
	merge short/standard lighthead. Failure to match setting and ac	tual lightbar will result in inconsistent functionality.
	Input w/PTN Code:	
A	LENGTH:42 * [1066 mm]	Front
		x
SERIES: LRDN V	/+/	+
LENGTH: 42" [1066 mm] V	×	CODE NO X
	+ x x x x	x x +
TEMPLATE: CL (General SAE)		Regr
TEMPLATE: CL (General SAE)		Redi
	Single Color Dual Color	
		x While X

A. Lightbar Specs

a. Series

- Select your product series.

b. Length

- Select the length of your lightbar.
- c. Cable Exit
 - Select the side of the cable exit. (The cable exit side define the Front and Rear side of the lightbar.)

c. Template

- Select a function template to start your setting.
 - 1. CL General SAE
 - 2. CE General ECE
 - 3. CS General STT



B. Lighthead / Colour Configuration

Configure exact lighthead size, position, and colour to match your actual lightbar. Failure to match setting and actual lightbar will result in inconsistent functionality.

a. Input using PTN Code:

• If you have the PTN code (aka Pattern Code) for your lightbar, simply input the PTN code into the blank and click on the Check Mark. The correct configuration should automatically fill up for you.

b. Input configuration manually.

1. Lighthead Configuration:

- Select and create a configuration of lightheads that matches your actual lightbar.

2. Colour Configuration

- Select and create a configuration of colours and types that matches your actual lightbar.
- Click one or drag to select a range of lighthead(s) then select a colour / type to configure it.
- Select Single, Dual for the lighthead(s). Click on [Single Colour] or [Dual Colour] to show the relevant page and select the option.

1	CONFIGURATION PRESET Configure exact lighthead size, position and color to match your actual lighth	ar. Right click on lighthead to split or
	merge short/standard lighthead. Failure to match setting and actual lightbar	will result in inconsistent functionality.
	Input w/PTN Code: LENGTH:54 * [1371 mm]	 Front
SERIES:	+ X X X X X X	× +
LENGTH: 54" [1371 mm] v	×	Case Let
CABLE EXIT: FROM THE RIGHT		x
TEMPLATE: CL (General SAE)	Single Color Dual Color	Rear
	Red Blue Green Amber White Green	
	(Back) Conti	nue

NOTE: The correct availability of the colour(s) depends on the actual product you have. Incorrect colour setting may still be uploaded to a lightbar but may not function properly as wanted.

C. Back / Continue

- Click [Back] to go back to the Getting Started page.
- Click [Continue] to move forward to Main Setting Panel.

② Open Existing Configuration

- Click to select an existing configuration and setting file from the host PC.

							- 0
pen					×		
anize 🔻	New folder				E - 🗆 🕐	🔓 🕑	🗊 📄 🗎
Ouick	Name	Date modified	Туре	Size			
Quick : De # De	Custom Office Templates ProcessExplorer	27/07/2016 14:03 06/06/2017 11:52	File folder File folder		Select a file to preview.	Output	Overview
	¢ items			>			
	File name:				✓ sbd File ✓ Open Cancel		
S	iteady						
E	3ar Pattern						
Versi	on: 0.20.0					© JULUEN ENTER	RPRISE. All Rights Reserved.

NOTE: Only the supported file format (.plb) is available for configuration.

③ Import from Lightbar

- Connect your Controller Module to the host PC with a USB cable (user supplied).
- Click [Import from Lightbar] to read and load its configuration and settings to the host PC.

€ະງດາດເ	EN								6 1 4	; i 🖄 i 🗁 i 🖶
FUNCTION	1		1		1		1		1 ¹	
INPUT WIRES		ک	Impo	ort from Ligh	ıtbar			×		
White: Wire 1		PRO	GRESS				COM	PLETE		
INPUT SETTING		\square								
Action						Vie	w Details			
Rename										
Action										
Not Defined										
Off										
TD / AL										
Lighthead Pattern										
Bar Pattern										
Traffic Advisor										
/ersion: 0.30.0									© JULUEN E	NTERPRISE. All Rights Reserve

NOTE: DO NOT disconnect the USB cable during the process.

Chapter 2: Main Setting Panel

2-1. File Centre



① Create New Configuration

- Click to re-start with a new configuration of lightheads (see 1.1).

2 Import from and Export to Lightbar

- Click to read and load its configuration and settings to the host PC (see 1.1).
- Click to export current configuration and settings to the connected Controller Module.
- Do not disconnect the Controller Module while burning is in progress.
- If burning failed, click on [Show Details] to see error message.

🕝 Burn	
PROGRESS	COMPLETE
Failed	Show Details
Error: Target device not found Establishing connection with the device failed Error: Target device not found Establishing connection with the device failed	

③ Serial-bus Controller Firmware Upgrade

- Click to load new firmware onto the Serial-bus Controller.

④ Open Existing Configuration

- Click to select an existing configuration and setting file (.plb) from the host PC (see 1.1).

Save

- Click to save current configuration and setting file (.plb) to the host PC or USB drive for later use.



2-2. Setting Centre

1 FUNCTION	B DIM VALUE		6 PREVIEW	

① Function

- Change settings of each lighthead action for function wires (see Chapter 3).

② Light Sensor

- Change settings of your light sensor (see Chapter 4).

③ Dim Value

- Change settings for dimming function (see Chapter 5).

④ Precedence

- Change the order of precedence for each control wires (see Chapter 6).

⑤ Output

- Change settings for signal outputs (see Chapter 7).

6 Preview

• Preview set functions for the selected function wires (see Chapter 8).

Chapter 3: FUNCTION

3-1. Overview

						🌝 I 📄 I
LIGHT SENSOR	DIM VALUE	PRECED	ENCE	OUTPUT		PREVIEW
	LENGTH:54 " [1371 mm]					Front
ode 1 👻	2218	221R 221R 221	R 2218 2218 221	2218 221	2-2-1.R	
		,				
	220			Cas		
	2.248				22U	
				بتا لتبتأ ا		
<u> </u>	_					
(4)						Rear
Color						Rear
						Rear
	Pulsing					Rear
Color		·				Rear
Color Classic Left-Right Doubl	e-Double	9	d individual and /			Rear
Color Classic Left-Right Double Note:When selecting	e-Double	> reviously programmed				Rear
		ade 1 v	2014 2014 2014 2014 2014 2014 2014 2014	2300 2300 2300 2300 2300 2300 2300 2300	Sau Sau <td>284 284 284 284 284 284 284 284 284 284 284 284 284 284 284 284 284 284 284 284 284 284 284 284 284 284 284 284</td>	284 284 284 284 284 284 284 284 284 284 284 284 284 284 284 284 284 284 284 284 284 284 284 284 284 284 284 284

① Input Wires

- Click and select an input wire for setting (see 3-2).

② Input Setting

- Click [Rename] to change the name of this input wire for easy memory (see 3-3).

③ Action

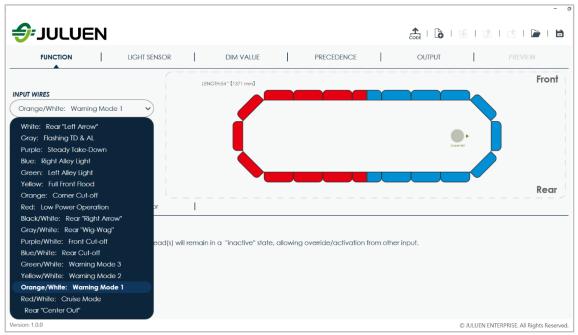
• Drag to select a range of lightheads and set desired action for the lighthead(s) (see 3-4) when the wire is activated.

④ Colour

• Drag to select a range of lightheads and set a desired colour(s) for the lighthead(s) when the wire is activated (see 3-5).



3-2. Input Wires



- Click to show the list of all available wires and select an input wire for setting.

• The colour of the wire will show on the left-hand side of the wire name.

3-3. Input Setting

						CODE		透 🖿
	LIGHT SENSOR	DIM VALUE	1	PRECEDENCE	l.	OUTPUT	I.	
		LENGTH:54 " [1371 mm]						From
NPUT WIRES						Υ Υ		
Orange/White: Warning Mod	de 1 🖌							
0		e e e e e e e e e e e e e e e e e e e					_ `	
-								
Rename								
								Pogr
								Rear
Action	Color							Rear
Action Not Defined	Color							Rear
		l I remain in a "inactive" si	ate, allowing	g override/activation	from othe	er input.		Rear
Not Defined		l I remain in a "inactive" si	ate, allowing	g override/activation	from othe	er input.		Rear
Not Defined Off TD / AL / GATSO		l I remain in a "inactive" si	ate, allowing	g override/activation	from othe	er input.		Rear
Not Defined Off		l I remain in a "inactive" si	rate, allowing	g override/activation	from othe	er input.		Rear

①*Rename*

- Click [Rename] to change the name of an input wire.
- Enter a new name for the input wire.
- Click [OK] to apply your change.
- Click [Cancel] to abort the action.

3-4. Action

Drag to select a range of lightheads and then select one action and relevant settings for the lighthead(s).

Set actions will be applied with the order of precedence for control wires. When two or more wires are activated at the same time, the wire with the higher precedence will override / affect the action of lightheads of the lower precedence wire.

NOTE: If you want to change the precedence, click [Precedence] to arrange your own order (see Chapter 6).

PUT WIRES	l	ENGTH:54 - [1371 mm]			Fron
					non
Orange: Corner Cul-off Rename				Case 19	Rea
Action	Color				
Not Defined					
Off	Lighthead(s) will rema	in in a "inactive" state, allowir	ng override/activation from of	her input.	
td / Al / GATSO					

3-4-1. Not Defined

The selected lightheads will do nothing with this control wire.
 Other control wire with higher precedence may affect this lighthead.

3-4-2. Off

• The selected lightheads will be turned OFF with this control wire.

3-4-3. TD / AL / GATSO

- This option is used with designated GATSO, Take-down or Alley lighthead(s). Check to force 100% brightness steady and disregarding other dimming function.
- For dual colour warning lighthead as Take-down or Alley lighthead(s), this option is not available; use steady flash pattern to achieve a similar result.

							🛖 🔓		🖄 🗁 🗎
FUNCTION	LIGHT SENSOR	I	DIM VALUE	I	PRECEDENCE		OUTPUT	I	PREVIEW
		LENGTH	:54 - 【1371 mm】						Front
UT WIRES									
urple: Steady Take-Down	~				StayMX	Stdyt	их		
			, j						
ename								Cope tri	
									Rear
Action	Color								Rear
	Color								Rear
lot Defined	Color Pattern: (Steady Max							Rear
lot Defined		Steady Max			/ groups of lighth	neads altern	ately, set each	n to Phase 1 and	
lot Defined Drf D / AL / GATSO	Pattern: (> 1		/ groups of lighth	neads altern	ately, set each	n to Phase 1 and	
Action Not Defined D/f D / AL / CAISO ighthead(s) Pattern Var Pattern	Pattern: (Phase: (1 (-0)	> 1		f groups of lighth	neads altern	ately, set each	n to Phase 1 and	Rear



3-4-4. Lighthead Pattern

Action	1	Color		
Not Defined				
Off	0	Pattern:	✓	
	2	Phase:	To flash pairs / groups of lightheads alternately, set each to Phase 1 and Phase 5 respec	tively
Lighthead(s) Pattern	3	Delay:	0 m 0	
Bar Pattern				

① Pattern

Click to select a flash pattern for the lightheads.

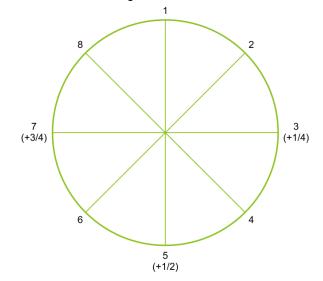
# Fish Pattern Abbreviation Note 1 Double-R65 22 Single-R65 1E 2 Single-R65 1E Triple-R65 3E 3 Triple-R65 3E 1 4 Cuad-R65 4E 1 5 Single-SAE 1 1 6 Double-SAE 2 1 7 Triple-SAE 3 1 9 Quint-SAE 5 1 10 Mega M 1 11 Giga 6 1 1 12 Uitra-SAE U 1 1 13 Single-Ouad 1-4 1 1 14 Single-M1 1 1 1 15 Single-Single 1-1 1 1 16 Single-Single 1-1 1 1 17 Pouble Double 2-2 1 1 20 Quint-Triple Ni	#		•	Note
2 Single-R65 1E 3 Triple-R65 3E 4 Quad-R65 4E 5 Single-SAE 1 6 Double-SAE 2 7 Triple-SAE 3 8 Quad-SAE 4 9 Quint-SAE 5 10 Mega M 11 Giga G 12 Ultra-SAE U 13 Single-Cuad 1-4 15 Single-Triple-Quint 1-3-5 16 Single-Triple-Quint 1-3-5 15 Single-Triple-Quint 1-3-5 16 Single-Single 1-1 17 Double Double 2-2 18 Triple-Triple Fast 3-3 19 Triple-Triple Fast 3-3 10 Quint-Triple 5-3 20 Quint-Cuint 5-5 24 ICAO Flash ICAO 25 Random RDM 26 Steady Max StdyIOU 100% brightness activation; does not affect by othe				NOLE
3 Triple-R65 3E 4 Quad-R65 4E 5 Single-SAE 1 6 Double-SAE 2 7 Triple-SAE 3 8 Quad-SAE 4 9 Quint-SAE 5 10 Mega M 11 Giga 6 12 Ultra-SAE U 13 Single-Quad 1-4 14 Single-M/L 1HL 15 Single-Triple-Quint 1-3-5 16 Single-Single 1-1 17 Double Double 2-2 18 Triple-Triple Fast 3-3 10 Quint-Triple 5-3 21 Quad-Single 4-1 23 Quint-Cuint 5-5 24 ICAO Fish ICAO 25 Random RDM 26 Steady Max StdyIMX 15% pattern will automatically revert to 100% brightness after 15min. 27 Tseady 100% StdyIO0 28 Steady 75%				
4 Quad-R65 4E 5 Single-SAE 1 6 Double-SAE 2 7 Triple-SAE 3 8 Quad-SAE 4 9 Quint-SAE 5 10 Mega M 11 Signe-Quad 14 12 Ultra-SAE 0 13 Single-Quad 1-4 14 Single H/L 1HL 15 Single-Triple-Quint 1-3-5 16 Single-Triple-Quint 1-3-5 17 Double Double 2-2 18 Triple-Triple Fast 3-3 19 Triple-Triple Fast 3-3' 20 Quint-Triple 5-3 21 Quad-Single 4-1 22 Quad-Single 4-1 23 Quint-Quint 5-5 24 ICAO Flash ICAO 25 Random RDM 26 Steady Max StdyMO 100%				
5 Single-SAE 1 6 Double-SAE 2 7 Triple-SAE 3 8 Quad-SAE 4 9 Quint-SAE 5 10 Mega M 11 Giga 6 12 Ultra-SAE U 13 Single-Quad 1-4 14 Single-Quad 1-4 15 Single-Triple-Quint 1-3-5 16 Single-Single 1-1 17 Double Double 2-2 18 Triple-Triple Fast 3-3 20 Quad-Single 4-1 21 Quint-Triple 5-3 22 Quad-Single 4-1 23 Quint-Quint 5-5 24 ICAO Flash ICAO 25 Randorn RDM 26 Steady Max StdyIOX 27 Steady Max StdyIOX 28 Steady 75% StdyIO3		•		
6 Double-SAE 2 7 Triple-SAE 3 9 Quint-SAE 4 9 Quint-SAE 5 10 Mega M 11 Giga 6 12 Ultra-SAE U 13 Single-Quad 1-4 14 Single-Triple-Quint 1-3-5 16 Single-Triple-Quint 1-3-5 16 Single-Triple-Quint 1-3-5 17 Double Double 2-2 18 Triple-Triple Fast 3-3 19 Triple-Triple Mid 3-3' 20 Quint-Triple 5-3 21 7-1 Hash 7-1 22 Quad-Single 4-1 23 Quint-Quint 5-5 24 ICAO Flash ICAO 25 Random RDM 26 Steady Max StdyMX 150% brightness activation; does not affect by other dimming function. 27 Steady 100% <				
7 Triple-SAE 3 8 Quad-SAE 4 9 Quint-SAE 5 10 Mega M 11 Giga G 12 Ultra-SAE U 13 Single-Quad 1-4 14 Single-Triple-Quint 1-3-5 15 Single-Triple-Quint 1-3-5 16 Single-Single 1-1 17 Double Double 2-2 18 Triple-Triple Alid 3-3 19 Triple-Triple Mid 3-3' 20 Quint-Triple 5-3 21 Quad-Single 4-1 22 Quad-Single 4-1 23 Quint-Quint 5-5 24 ICAO Flash ICAO 25 Random RDM 26 Steady Max StdyIM 150% brightness activation; does not affect by other dimming function. This pattern will automatically revert to 100% brightness after 15min to prevent overheating. Do not run this pattern continuously by turnig ON and OFF manually after 15 min. 27 Steady 100% StdyIO3 50% brightness		-		
8 Quad-SAE 4 9 Quint-SAE 5 10 Mega M 11 Giga G 12 Ultra-SAE U 13 Single-Quad 1-4 14 Single-Pripte-Quint 1-3-5 16 Single-Single 1-1 17 Double Double 2-2 18 Triple-Tripte Fast 3-3 19 Tripte-Tripte Fast 3-3 20 Quint-Tripte 5-3 21 7-1 Flash 7-1 22 Quad-Single 4-1 23 Quint-Quint 5-5 24 ICAO Flash ICAO 23 Quint-Quint 5-5 24 ICAO Flash ICAO 25 Random RDM 26 Steady Max StdyNX 150% brightness activation; does not affect by other dimming function. 27 Steady 100% Stdy100 100% brightness activatio; does not affect by other dimming function. <				
9 Quint-SAE 5 10 Mega M 11 Giga G 12 Ultra-SAE U 13 Single-Quad 1-4 14 Single-Quad 1-4 15 Single-Triple-Quint 1-3-5 16 Single-Triple-Quint 1-3-5 17 Double Double 2-2 18 Triple-Triple Fast 3-3 19 Triple-Triple Mid 3-3' 20 Quint-Triple 5-3 21 7-1 Flash 7-1 22 Quad-Single 4-1 23 Quint-Quint 5-5 24 ICAO Flash ICAO 25 Random RDM 26 Steady Max StdyIOX 150% brightness activation; does not affect by other dimming function. This pattern will automatically revert to 100% brightness after 15min to prevent overheating. Do not run this pattern continuously by turning ON and OFF manually after 15 min. 27 Steady 100% StdyIO0 100% brightness activation; does not affect by other dimming function.		•		
10 Mega M 11 Giga G 12 Ultra-SAE U 13 Single-Quad 1-4 14 Single-Yulu 1H 15 Single-Single 1-1 16 Single-Single 1-1 17 Double Double 2-2 18 Triple-Triple Fast 3-3 20 Quint-Triple 5-3 21 7-1 Flash 7-1 22 Quad-Single 4-1 23 Quint-Quint 5-5 24 ICAO Flash ICAO 25 Random RDM 26 Steady Max StdyMX 26 Steady 100% StdyIO0 27 Steady 100% StdyIO0 28 Steady 100% StdyIO0 30 StdyZ5 25% birghtness activation; does not affect by other dimming function. 28 Steady 100% StdyIO0 100% brightness activation; does not affect by other dimming function. 31 Steady 55% StdyZ5 25% birghtness activation; does not affect by other dimmi				
11 Giga G 12 Ultra-SAE U 13 Single-Quad 1-4 14 Single H/L 1HL 15 Single-Triple-Quint 1-3-5 16 Single-Single 1-1 17 Double Double 2-2 18 Triple-Triple Fast 3-3 19 Triple-Triple Mid 3-3' 20 Quint-Triple 5-3 21 7-1 Flash 7-1 22 Quad-Single 4-1 23 Quint-Quint 5-5 24 ICAO Flash ICAO 25 Steady Max StdyMX 150% brightness activation; does not affect by other dimming function. This pattern will automatically revert to 100% brightness after 15min to prevent overheating. Do not run this pattern continuously by turning ON and OFF manually after 15 min. 27 Steady 100% Stdy100 100% brightness activation; does not affect by other dimming function. 29 Steady 100% Stdy100 100% brightness activation; does not affect by other dimming function. 29 Steady 15% Stdy25 25% brightness activation; does not affect by other dimming fu	-			
12 Ultra-SAE U 13 Single-Quad 1-4 14 Single H/L 1HL 15 Single-Triple-Quint 1-3-5 16 Single-Single 1-1 17 Double Double 2-2 18 Triple-Triple Fast 3-3 20 Quint-Triple Fast 3-3 21 7-1 Flash 7-1 22 Quad-Single 4-1 23 Quint-Quint 5-5 24 ICAO Flash ICAO 25 Random RDM 26 Steady Max StdyMX 150% brightness activation; does not affect by other dimming function. This pattern will automatically revert to 100% brightness after 15min. Do not run this pattern continuously by turning ON and OFF manually after 15 min. 27 Steady 100% StdyD0 50% brightness activation; does not affect by other dimming function. 28 Steady 75% StdyZ5 25% brightness activation; does not affect by other dimming function. 29 Steady 50% StdyS0 50% brightness activation; does not affect by other dimming function. 29 Steady 25% StdyD5 50% brightness activ				
13 Single-Quad 1-4 14 Single H/L 1HL 15 Single-Triple-Quint 1-3-5 16 Single-Single 1-1 17 Double Double 2-2 18 Triple-Triple Fast 3-3 19 Triple-Triple Fast 3-3 20 Quint-Triple 5-3 21 7-1 Flash 7-1 22 Quad-Single 4-1 23 Quint-Quint 5-5 24 ICAO Flash ICAO 25 Random RDM 26 Steady Max StdyMX 150% brightness activation; does not affect by other dimming function. 27 Steady 100% Stdy100 100% brightness activation; does not affect by other dimming function. 27 Steady 75% Stdy25 25% brightness activation; does not affect by other dimming function. 29 Steady 75% Stdy25 25% brightness activation; does not affect by other dimming function. 29 Steady 25% Stdy25 25% brightness activation; does not affect by other dimming function. 30 Steady 25% Stdy25		-		
14 Single H/L 1HL 15 Single-Triple-Quint 1-3-5 16 Single-Single 1-1 17 Double Double 2-2 18 Triple-Triple Fast 3-3 19 Triple-Triple Mid 3-3' 20 Quint-Triple 5-3 21 7-1 Flash 7-1 22 Quad-Single 4-1 23 Quint-Quint 5-5 24 ICAO Flash ICAO 25 Random RDM 26 Steady Max StdyMX 150% brightness activation; does not affect by other dimming function. This pattern will automatically revert to 100% brightness after 15min to prevent overheating. Do not run this pattern continuously by turning ON and OFF manually after 15 min. 27 Steady 100% Stdy100 100% brightness activation; does not affect by other dimming function. 28 Steady 75% Stdy50 50% brightness activation; does not affect by other dimming function. 29 Steady 50% Stdy50 50% brightness activation; does not affect by other dimming function. 30 Steady 5% Stdy50 50% brightness activation; does not affect by other dimming function. <td></td> <td></td> <td></td> <td></td>				
15Single-Triple-Quint1-3-516Single-Single1-117Double Double2-218Triple-Triple Fast3-319Triple-Triple Fast3-320Quint-Triple5-3217-1 Flash7-122Quad-Single4-123Quint-Quint5-524ICAO FlashICAO25RandomRDM26Steady MaxStdyMX150% brightness activation; does not affect by other dimming function. This pattern will automatically revert to 100% brightness after 15min to prevent overheating. Do not run this pattern continuously by turning ON and OFF manually after 15 min.27Steady 100%Stdy100100% brightness activation; does not affect by other dimming function. This pattern will automatically revert to 100% brightness after 15min to prevent overheating. Do not run this pattern continuously by turning ON and OFF manually after 15 min.27Steady 100%Stdy100100% brightness activation; does not affect by other dimming function.28Steady 75%Stdy2525% brightness activation; does not affect by other dimming function.29Steady 50%Stdy2525% brightness activation; does not affect by other dimming function.31Steady 5%Stdy0532Steady 1%Stdy0133Brake (Aux.)-SAE/ECEBrke50% brightness activation; does not affect by other dimming function. This is also the steady-burn pattern with the lowest dimming value.34Trail (Aux.) - SAE/ECETuri50% brightness activ		-		
16Single-Single1-117Double Double2-218Triple-Triple Fast3-319Triple-Triple Mid3-3'20Quint-Triple5-3217-1 Flash7-122Quad-Single4-123Quint-Quint5-524ICAO FlashICAO25RandomRDM26Steady MaxStdyMX150% brightness activation; does not affect by other dimming function. This pattern will automatically revert to 100% brightness after 15 min. Do not run this pattern continuously by turning ON and OFF manually after 15 min.27Steady 100%Stdy100100% brightness activation; does not affect by other dimming function. This pattern will automatically revert to 100% brightness after 15 min.27Steady 100%Stdy100100% brightness activation; does not affect by other dimming function. 				
17Double Double2-218Triple-Triple Fast3-319Triple-Triple Mid3-3'20Quint-Triple Mid3-3'217-1 Flash7-122Quad-Single4-123Quint-Quint5-524ICAO FlashICAO25RandomRDM26Steady MaxStdyMX27Steady MaxStdyMX28Steady 100%Stdy10029Steady 100%Stdy10029Steady 25%Stdy2529Steady 25%Stdy2520Stdy0531Steady 25%Stdy0532Steady 1%Stdy0133Brake (Aux.)-SAE/ECEBrke50% brightness activation; does not affect by other dimming function. This pattern will automatically revert dimming function.34Tail (Aux.) - SAE/ECETurn50% brightness activation; does not affect by other dimming function. This pattern will automatically revert to 100% brightness activation; does not affect by other dimming function.35Turn (Aux.) - SAE/ECETurn36Steady 25%Stdy01		•		
18 Triple-Triple Fast 3-3 19 Triple-Triple Mid 3-3' 20 Quint-Triple 5-3 21 7-1 Flash 7-1 22 Quad-Single 4-1 23 Quint-Quint 5-5 24 ICAO Flash ICAO 25 Random RDM 26 Steady Max StdyMX 150% brightness activation; does not affect by other dimming function. This pattern will automatically revert to 100% brightness after 15min to prevent overheating. Do not run this pattern continuously by turning ON and OFF manually after 15 min. 27 Steady 100% Stdy100 100% brightness activation; does not affect by other dimming function. 28 Steady 25% Stdy25 25% brightness activation; does not affect by other dimming function. 29 Steady 25% Stdy25 25% brightness activation; does not affect by other dimming function. 31 Steady 25% Stdy05 50% brightness activation; does not affect by other dimming function. 32 Steady 1% Stdy01 33 33 Brake (Aux.)-SAE/ECE Brke 50% brightness activation; does not affect by other dimming function. 34 Tail (Aux.) - S				
19Triple-Triple Mid3-3'20Quint-Triple5-3217-1 Flash7-122Quad-Single4-123Quint-Quint5-524ICAO FlashICAO25RandomRDM26Steady MaxStdyIMX150% brightness activation; does not affect by other dimming function. This pattern will automatically revert to 100% brightness after 15min to prevent overheating. Do not run this pattern continuously by turning ON and OFF manually after 15 min.27Steady 100%Stdy100100% brightness activation; does not affect by other dimming function.28Steady 75%Stdy2575% brightness activation; does not affect by other dimming function.27Steady 100%Stdy100100% brightness activation; does not affect by other dimming function.28Steady 75%Stdy2525% brightness activation; does not affect by other dimming function.29Steady 50%Stdy2525% brightness activation; does not affect by other dimming function.30Steady 25%Stdy0532Steady 1%Stdy0133Brake (Aux.)-SAE/ECEBrke50% brightness activation; does not affect by other dimming function.34Tail (Aux.) - SAE/ECETail15% brightness activation; does not affect by other dimming function.34Tail (Aux.) - SAE/ECETurn50% brightness activation; does not affect by other dimming function.35Turn (Aux.) - SAE/ECETurn50% brightness activation; does not affect by other dimming function. <td>17</td> <td></td> <td>2-2</td> <td></td>	17		2-2	
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26Steady MaxStdyMX150% brightness activation; does not affect by other dimming function. This pattern will automatically revert to 100% brightness after 15min to prevent overheating. Do not run this pattern continuously by turning ON and OFF manually after 15 min.27Steady 100%Stdy100100% brightness activation; does not affect by other dimming function.28Steady 75%Stdy7575% brightness activation; does not affect by other dimming function.29Steady 50%Stdy5050% brightness activation; does not affect by other dimming function.30Steady 25%Stdy2525% brightness activation; does not affect by other dimming function.31Steady 5%Stdy0532Steady 1%Stdy0133Brake (Aux.)-SAE/ECEBrke50% brightness activation; does not affect by other dimming function.34Tail (Aux.) - SAE/ECETail15% brightness activation; does not affect by other dimming function.35Turn (Aux.) - SAE/ECETurn50% brightness activation; does not affect by other dimming function.				
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30 Steady 25% Stdy25 25% brightness activation; does not affect by other dimming function. 31 Steady 5% Stdy05 32 Steady 1% Stdy01 33 Brake (Aux.)-SAE/ECE Brke 50% brightness activation; does not affect by other dimming function. 34 Tail (Aux.) - SAE/ECE Tail 15% brightness activation; does not affect by other dimming function. 35 Turn (Aux.) - SAE/ECE Turn 50% brightness activation; does not affect by other dimming function.				
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33 Brake (Aux.)-SAE/ECE Brke 50% brightness activation; does not affect by other dimming function. 34 Tail (Aux.) - SAE/ECE Tail 15% brightness activation; does not affect by other dimming function. 35 Turn (Aux.) - SAE/ECE Turn 50% brightness activation; does not affect by other dimming value.	31	Steady 5%		
34 Tail (Aux.) - SAE/ECE Tail 15% brightness activation; does not affect by other dimming function. This is also the steady-burn pattern with the lowest dimming value. 35 Turn (Aux.) - SAE/ECE Turn 50% brightness activation; does not affect by other dimming function.	32	•	Stdy01	
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35 Turn (Aux.) - SAE/ECE Turn 50% brightness activation; does not affect by other dimming function.	34	Tail (Aux.) - SAE/ECE	Tail	
36 Reverse (Aux.) - SAE/ECE Rvrse 25% brightness activation; does not affect by other dimming function.	35	Turn (Aux.) - SAE/ECE	Turn	
	36	Reverse (Aux.) - SAE/ECE	Rvrse	25% brightness activation; does not affect by other dimming function.

CAUTION: Lightheads with the Brake (stop) / Tail / Turn flash pattern must not be used to replace the original Brake (stop) / Tail / Turn Indicator lamp(s) of the vehicle.

NOTE: Actual compliance and approval will be based on your lightbar configuration.

② Phase

- Click to select a phase order (#1 to #8) for the flash pattern. Each phase adds 1/8 activation time to the action.
- To have a lightbar flashing left and right alternatingly, set one half to "#1" and the other half to "#5(+1/2)"
- The phase setting does not affect ending time when the wire is deactivated.



③ Delay

- Drag on the slider or key in a number in the cell to set a delay activation time to the action from 0 to 1000ms
- This delay will stack with the previously set phase time.

3-4-5. Bar Pattern

- ① Select a range of lightheads.
- ^② Then click to apply a set lightbar pattern.

	Action	Color		
	Not Defined	(2)	
	Off	Classic	Pulsing	
	TD / AL / GATSO		~	
	Lighthead(s) Pattern		ting a full lightbar pattern, previously pro d patterns, will be overwritten.Check ca	
1	Bar Pattern	condition before		refully of save content
	Traffic Advisor			
	Version: 1.0.0			



Classic Bar Patterns:

#		Bar Pattern	Abbreviation Note
1	Left-Right	Single-Single	1-1-LR
2	Left-Right	Double-Double	2-2-LR
3	Left-Right	Double-Single	2-1-LR
4	Left-Right	Triple-Triple	3-3-LR
5	Left-Right	Triple-Single	3-1-LR
6	Left-Right	Quad-Quad	4-4-LR
7	Left-Right	Quad-Single	4-1-LR
8	Left-Right	Single H/L	1HL'-LR
9	Left-Right	Double-Double II	2-2'-LR
10	Left-Right	Double-Blast	2-B-LR
11	Left-Right	Swing I	Sw-LR
12	Left-Right	Triple-Blast	3-B-LR
13	Left-Right	Swing II	Sw'-LR
14	Left-Right	Swing III	Sw''-LR
15	Left-Right	Triple H/L	3HL-LR
16	In-Out	Single-Single	1-1-IO
17	In-Out	Double-Double	2-2-10
18	In-Out	Double-Single	2-1-IO
19	In-Out	Triple-Triple	3-3-IO
20	In-Out	Triple-Single	3-1-IO
21	In-Out	Quad-Quad	4-4-IO
22	In-Out	Quad-Single	4-1-IO
23	In-Out	Single H/L	1HL'-IO
24	In-Out	Double-Double	2-2'-10
25	In-Out	Double-Blast	2-B-IO
26	In-Out	Swing I	Sw-IO
27	In-Out	Triple-Blast	3-B-IO
28	In-Out	Swing II	Sw'-IO
29	In-Out	Swing III	Sw''-IO
30	In-Out	Triple H/L	3HL-IO



Pulsing Bar Patterns:

#		Bar Pattern	Abbreviation	Note
1	All	Pulsing	Р	
2	All	Pulsing Fast	PF	
3	Left-Right	Pulsing	P-LR	
4	Left-Right	Pulsing Fast	PF-LR	
5	All	Pulsing Tremor	PT	
6	All	Pulsing Tremor Fast	PTF	
7	Left-Right	Pulsing Tremor	PT-LR	
8	Left-Right	Pulsing Tremor Fast	PTF-LR	
9	Clockwise	Pulsing Chaser	PC-C	
10	Anti-Clockwise	Pulsing Chaser	PC-AC	
11	Clockwise	Pulsing Chaser Fast	PCF-C	
12	Anti-Clockwise	Pulsing Chaser Fast	PCF-AC	
13	Clockwise	Pulsing Scan	PS-C	
14	Anti-Clockwise	Pulsing Scan	PS-AC	
15	Clockwise	Pulsing Scan Fast	PSF-C	
16	Anti-Clockwise	Pulsing Scan Fast	PSF-AC	
17	Clockwise	Pulsing Comet	PCM-C	
18	Anti-Clockwise	Pulsing Comet	PCM-AC	
19	Clockwise	Pulsing Comet Fast	PCMF-C	
20	Anti-Clockwise	Pulsing Comet Fast	PCMF-AC	
21	Split	Pulsing Chaser	PC-LR	
22	Split	Pulsing Chaser Fast	PCF-LR	
23	Split	Pulsing Scan	PS-LR	
24	Split	Pulsing Scan Fast	PSF-LR	
25	Split	Pulsing Comet	PCM-LR	
26	Split	Pulsing Comet Fast	PCMF-LR	
27	In-Out	Pulsing Scan Wig-Wag	PSW-IO	
28	In-Out	Pulsing Scan Wig-Wag	PSWF-IO	
29	Left-Right	Pulsing Scan Wig-Wag	PSW-LR	
30	Left-Right	Pulsing Scan Wig-Wag	PSWF-LR	
31	Butterfly	Pulsing Scan	PS-BF	
32	Butterfly	Pulsing Scan Fast	PSF-BF	

	8.8		

3-4-6. Traffic Advisor

Action	Color			
Not Defined		1		
Off	Left Arrow	Center-	out Arrow	Right Arrow
TD / AL / GATSO	Pattern:	2 (~
Lighthead(s) Pattern				
Bar Pattern				
Traffic Advisor				

① Traffic Arrow Mode

- Click to select a Traffic Arrow direction for the lightheads.

② Flash Pattern

#	TA Pattern	Abbreviation	Note
1	Sweep Single	TA-Sw-1	Does not affected by dimming function
2	Sweep Double	TA-Sw-2	Does not affected by dimming function
3	Sweep Triple	TA-Sw-3	Does not affected by dimming function
4	Sweep Single End x2	TA-Sw-1'	Does not affected by dimming function
5	Solid Single	TA-Sd-1	Does not affected by dimming function
6	Solid End x2	TA-Sd-1'	Does not affected by dimming function
7	Solid Chaser	TA-Sd-C	Does not affected by dimming function
8	Solid Fade	TA-Sd-D	Does not affected by dimming function
9	Blink Double	TA-Bk-2	Does not affected by dimming function
10	Blink Triple	TA-Bk-3	Does not affected by dimming function
11	Blink Solid	TA-Bk-Sd	Does not affected by dimming function

Click to select a TA Flash Pattern for Left Arrow / Right Arrow Pattern and Centre-out Arrow Pattern respectively.

3-5. Colour

Select one or a range of lighthead(s) and set a colour for its action.

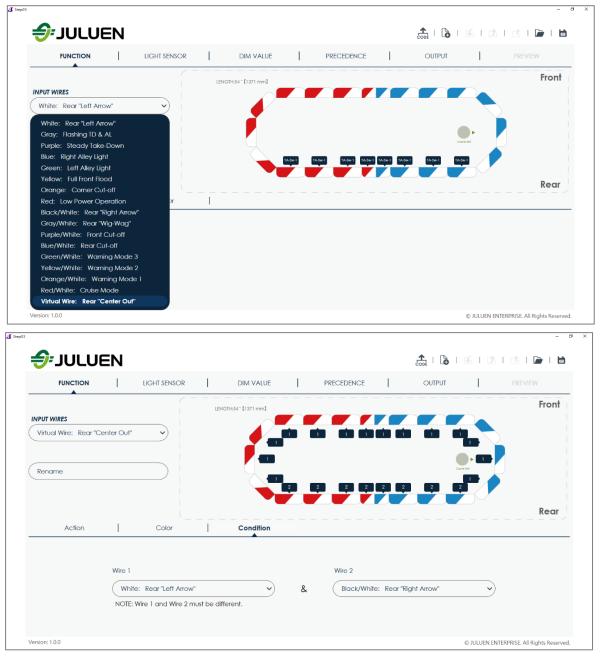
LIGHT SENSOR	DIM VALUE PI	RECEDENCE OUTPUT	
LENG	STH:54 = [1271 mm]		
	STRAFT LIGHT HITLE		Front
~	1/2 1/2		
	1/2		
	1/2		
	1/2 1/2	1/2 1/2 2 2 2	2
			Rear
Color			
Color 1/2	Color 1/3	Color 1/2/3	
Color 2/1	Color 2/3	Color 2/1/3	
Color 2/1	Color 3/2		
Color 3/1			
Color 3/1	00013/2		
		Color 1/2 Color 1/3	Color 1/2 Color 1/3 Color 1/2/3

- If the action is set to "Not Defined", the colour setting will not be carried down to the next precedence wire(s)
- For Single Colour lighthead(s), [Colour 1] is the only option.
- For Dual Colour lighthead(s), click one of the following options for colour setting:
 - ✓ [Colour 1]
 - ✓ [Colour 2]
 - ✓ [Colour 1/2]
 - ✓ [Colour 2/1]
- The availability of Dual Colour function depends on the product you ordered.
- The exact colour of Colour 1, 2 depends on the colour option(s) for specific lighthead(s) you ordered.

- 1

3-6. Virtual Wire and Condition

A Virtual wire is activated when a given condition applied; it may be used in application such like Traffic Director Center-out Arrow where Left Arrow and Right Arrow wires need to be activated at the same time to activate Center-out Arrow.



 Select 2 wires that you would like to be the condition of the virtual wire; when these 2 wires are activated, the virtual wire is activated together.

Chapter 4: Light Sensor

4-1. Overview

JULUEN	🚓 🔓 🙆 🗷 🖄 🖿	1
FUNCTION LIGHT SENSOR DIM VALU	PRECEDENCE OUTPUT PREVIEW	
SENSOR SETTING:		
Ambient Light (Set Clear)	3 Delay	
< 572 Lux > 984 Lux	5 Seconds	
<854 Lux > 1384 Lux	15 Seconds	
<1052 Lux > 1545 Lux	30 Seconds	

① Sensor Enabling

- Click [Enable] to enable the Auto Dimming function.
- Click [Disable] to disable the Auto Dimming function.

NOTE: The availability of Auto Dimming depends on the product ordered.

2 Settings for Ambient Light (Set | Clear)

- Select the correct lens colour to display the correct lux value for the colour.
- Click to select the activating and deactivating automatic dimming; The left value indicates activation threshold; the right value indicates clear threshold.

\nearrow	Clear	Lens
Value 1	<572 Lux	>984 Lux
Value 2	<854 Lux	>1384 Lux
Value 3	<1052 Lux	>1545 Lux

③ Delay

- Click to select one of the delay time setting; above set/clear condition must be met over the delay time to proceed:
 - [5 Seconds]
 - [15 Seconds]
 - [30 Seconds]

Chapter 5: Dim Value

5-1. Overview

FUNCTION LIGHT SENSOR DIM VALUE	PRECEDENCE	OUTPUT PREVIEW
D Precedence:	High / Low Setting:	3 Dim Value:
2 Red: Low Power Operation	Dim 2 🗸	Low Power +
3 Orange: Corner Cut-off	High Power 🗸	Dim 1 : 30% 🗸
4 Yellow: Full Front Flood	High Power 🗸	Dim 2 : 10% 20%
5 Green: Left Alley Light	High Power V	Dim 3 : 30%
6 Blue: Right Alley Light	High Power V	Dim 4 : 70% 90%
7 Purple: Steady Take-Down	High Power v	
8 Gray: Flashing TD & AL	High Power v	
9 Virtual Wire: Rear "Center Out"	High Power v	
10 White: Rear "Left Arrow"	High Power 🗸	

① Precedence

• Show the precedence for all control wires of your lightbar (see 5-1-1).

NOTE: To change the precedence, click [Precedence] to arrange order (see Chapter 6).

② High / Low Setting

- Click on the dropdown menu and select one of the dimming modes (see 5-1-2).

③ Dim Value

- Click to change the setting for each of 4 dimming modes.
- Select one of the following options for dimming function:
 - ✓ [10%]
 - ✓ [20%]
 - ✓ [30%]
 - ✓ [40%]
 - ✓ [50%]

 - ✓ [70%]
 - [/0/0]
 - ✓ [80%]
 - **√** [90%]

- 1

Chapter 6: PRECEDENCE

6-1. Overview

Set the order of precedence for your lightbar.

When more than one wires are activated at the same time, the wire with the higher precedence will affect the lighthead action of the lower precedence wire.

FUNCT	ION	LIGHT SENSOR	DIM VALUE	PRECEDENCE	OUTPUT PREVIEW
	Preced	ence:	1	High / Low Setting:	2
	1 (Light Sensor			
	2 (Red: Low Power Operation		Dim 2	
	3 (Orange: Corner Cut-off		High Power	
	4 (Yellow: Full Front Flood		High Power	
	5 (Green: Left Alley Light		High Power	
	6 (Blue: Right Alley Light		High Power	NOTE: Precedence settings
	7 (Purple: Steady Take-Down		High Power	determine input hierarchy (i.e. which inputs override others when activated
	8	Gray: Flashing TD & AL		High Power	simultaneously). Make sur to view & confirm your
	9	Virtual Wire: Rear "Center Out"		High Power	settings in the PREVIEW ta before exporting.

① Precedence Panel

• The Precedence Panel shows the information of each wire with specific precedence.

NOTE: To change the dimming value, click the **[DIM VALUE]** tab at the top to change settings (see Chapter 5).

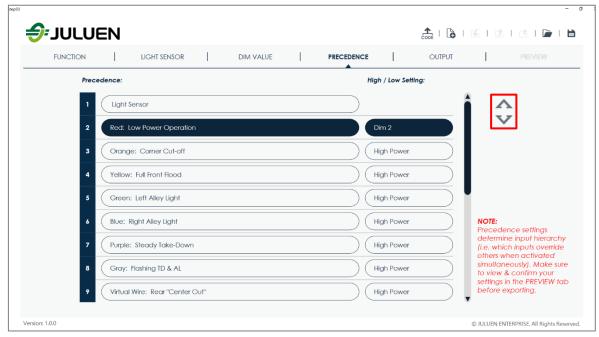
② Up/Down Arrow Button

1. First click on the wire to be change. Current selected wire will be highlighted.

FUNCTION	NC	LIGHT SENSOR DIM VALUE	PRECEDENCE OUTPUT	PREVIEW			
	Preced	ence:	High / Low Setting:				
	1 (Light Sensor					
	2	Red: Low Power Operation	Dim 2				
	з (Orange: Corner Cut-off	High Power				
	4 (Yellow: Full Front Flood	High Power				
	5 (Green: Left Alley Light	High Power	1			
	6 (Blue: Right Alley Light	High Power	NOTE: Precedence settings			
	7 (Purple: Steady Take-Down	High Power	determine input hierarchy (i.e. which inputs override others when activated			
	8 (Gray: Flashing TD & AL	High Power	simultaneously). Make sure to view & confirm your			
	9 (Virtual Wire: Rear "Center Out"	High Power	settings in the PREVIEW tab before exporting.			

- F

2. Change the precedence of the selected wire with the substant button (move upward) or the with the move downward).



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Chapter 7: Output

7-1. Overview

FUNC	CTION LIGHT SENSOR DIM VALUE	PRECEDENCE		OUTPUT PREVIEW
2	Output 1: WARNING MODE SIGNAL		1	Output 2: CONTROL PANEL SIGNAL INDICATOR
C	Select the wires / inputs that will co-activate with a 20mA signal output.		\smile	Select a compatible Control Panel w/ LED display show active front or rear lighthead activity (e.g. o patterns, etc.)
	Red: Low Power Operation	Î.		SW610/SW830/SW830-2 Rear Lightheads
	Orange: Corner Cut-off			
	Yellow: Full Front Flood			SW610/SW830/SW830-2 Front Lightheads
	Green: Left Alley Light			
	Blue: Right Alley Light	- N.		No Output
	Purple: Steady Take-Down			
	Gray: Flashing TD & AL			
	Virtual Wire: Rear "Center Out"			

① Output 1 : WARNING MODE SIGNAL

Output 1 will output a 20mA signal when any of the selected wires is activated.

1. Select the wire(s) that will active this 20mA signal output; selected wire(s) will be highlighted.

FUNCT	ION	1	L	IGHT SEN	ISOR		DI	M VALUE	1	PRECE	DENCE	1	ou			PREVIEW
	Outpu	t 1: WARI	NING I	NODE SIG	GNAL							Ou	put 2: C	ONTROLI	PANEL SIGN	
	Select	wires the	at will	co-activ	e with th	nis 20mA	signal o	utput.							Control Pai d activity.	nel to display cui
		Red/Wh]						î	(10/SW830 Lightheo)/SW830-2 ads	\supset
	0	Orange Yellow/									L	(10/SW830 t Lighthe)/SW830-2 ads	\supset
	\bigcirc	Green/	White:	Wire 13	3							($\overline{}$
		Blue/Wh	nite: \	Wire 12							•	C		No Ou	Iput	
	\bigcirc	Purple/	White:	Wire 11												
	\bigcirc	Gray/W	hite:	Wire 10												
	\bigcirc	Black/W	/hite:	Wire 9												
		White:	com se													

② Output 2: CONTROL PANEL SIGNAL INDICATOR

Select a compatible Control Panel to display current rear or front lighthead activity.

- SW610 / SW830 / SW830-2 Control Panel, displaying Rear Lighthead Activity
- SW610 / SW830 / SW830-2 Control Panel, displaying Front Lighthead Activity
- Disable

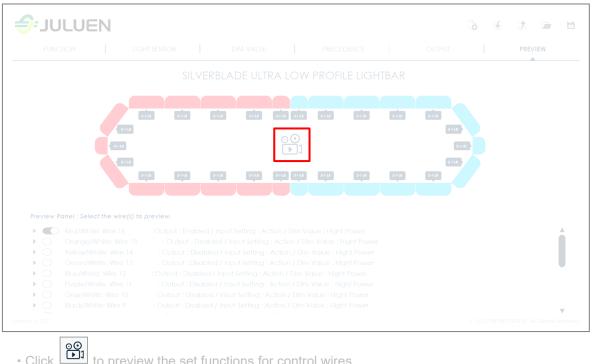
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ال 🗲	ULUE	IN								G I 🖸	🖄 🖿	
FUI	INCTION		LIGHT SENSOR		DIM VALUE		PRECEDENCE	I	OUTPUT		PREVIEW	
	Output	1: WARNIN	G MODE SIGNAL					Outp	out 2: CONTROL P	ANEL SIGNAL	INDICATOR	
	Select ti	he wires /	inputs that will co-ad	tivate with	a 20mA signal ou	tput.		show	ct a compatible v active front or r erns, etc.)			
		Red: Low	Power Operation				Î		SW610/SW830 Rear Lighthea			
	\bigcirc	Orange: (Corner Cut-off									
		Yellow: Fu	II Front Flood						SW610/SW830 Front Lightheo			
	\bigcirc	Green: Le	ft Alley Light					(
		Blue: Righ	t Alley Light					(No Out	put)	
		Purple: St	eady Take-Down									
		Gray: Flas	hing TD & AL									
		Virtual Wire	e: Rear "Center Out									
		White: Re	ar "Left Arrow"				v					
Version: 1.0.0										© JULUEN ENT	ERPRISE. All Rights R	eserved.

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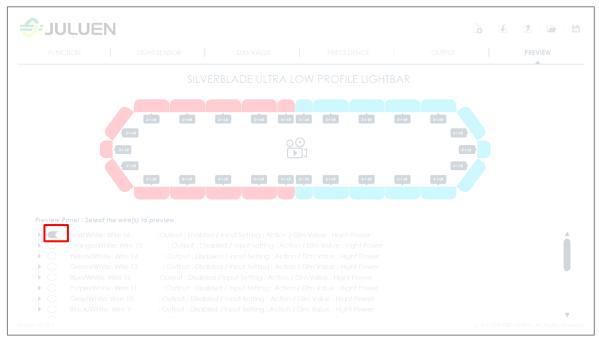
Chapter 8: Preview Coming Soon

8-1. Preview Your Lightbar

This preview page allows users to preview the set actions when one or many wires are activated together. Dimming condition is not shown.



- Click to preview the set functions for control wires.
- 00 570P] - Click to stop the preview of your lightbar.
- 8-2. Preview Panel



- Turn ON or OFF one or many function wires to preview.
- Actual action and function must be checked and confirmed on the actual lightbar. Special condition such as Left Arrow and Right Arrow wire will activating Centre-out Arrow will not be displayed.

Appendix A. Copyright Notices

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