SOFTWARE MANUAL



SILVER BLADE – STROBE LED LIGHT BARS

V1.0

IMPORTANT Before installing the system, make sure you have read and understood the included instructions in this guide.



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Chapter 1: Getting Started

1-1. Software Update

When starting LSBD Lightbar Configuration Tool, the latest software version and driver available for update will be checked. Follow the following instructions and click on appropriate buttons on the bottom.



1 Download

If a new version or driver is available, click [DOWNLOAD] to download the latest version of the software. Save the zip to a desired directory; user may need to use this directory in the next time.

- This button is disabled if no new version is found.

② Upgrade

Once a new software version or driver is downloaded, click on [UPGRADE] to install the downloaded file.

• This button is disabled if no downloaded file is found.

③ Install Driver

Connect the lightbar controller module to the PC via a USB cable, 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.

• This button is disabled if the driver has been installed already.

④ Run

Once both latest software and device driver has been installed, click [RUN] to start the LSBD Lightbar Configuration Tool. User may choose to skip upgrading and driver installation and click [RUN] to start at user's own discretion; this may lead to possible bug or software issue.

1-2. Overview



① Create New Configuration

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

Image: Series: LSBD LENGTH: 54" Image: Series: Single Colour Image: Series: Single Colour		SILVERBLADE ULTRA LOW PROFILE LIGHTBAR Select Colour And Lighthead To Change Configuration. Right click on lighthead to split or merge short/standard lighthead.
LENGTH: 54"	A Series: LSBD V	* * * * * * * * * * * * * * * * * * *
Single Colour Dual Colour Tri Colour Implate: CL CL	ENGTH: 54" V	* x x x x x x x x x x x x
	EMPLATE: CL V	Single Colour Dual Colour Tri Colour Red Blue Green Amber X

A. Lightbar Specs

- a. Series
 - Select your product series.
- b. Length
 - Select the length of your 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



1. Lighthead Configuration:

- Select and create a configuration of lightheads that matches your actual lightbar.
- Right-click on any lighthead to split or merge between one standard lighthead and two short lightheads, vice versa. The relevant lighthead(s) at the opposite side will be split or merged together to maintain left-right symmetrical.
- The maximum number of available standard or short lightheads depends on the length of the lightbar.

	SILVERBLAD Select Colou Right click on light	DE ULTRA LOW PRC or And Lighthead To Chang thead to split or merge sho	FILE LIGHTBAR ge Configuration. rt/standard lighthead	l.
	x x x	x x x x	xx	×
SERIES: LSBD Y	×			×
LENGTH: 54 "	+ x x x	x x x x	xx	× (*)
	Single Colour			Tri Colour
	Red Blue		White X	

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 or Tri Colour for the lighthead(s). Click on **[Single Colour]**, **[Dual Colour]** or **[Tri Colour]** to show the relevant page, and select the option.



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 go forward to Main Setting Panel.

② Open Existing Configuration

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

Open					×	
rganize 🔻	New folder				III - 🛛 🕐	🔓 🕑 🗁 🗎
Duick :	Name	Date modified	Туре	Size		
De 🖈	Custom Office Templates	27/07/2016 14:03	File folder			Output Overview
🕹 De 🖈	ProcessExplorer	06/06/2017 11:52	File folder			
🔂 Dc 🖈						
📰 Pi 📌						
hin hin						
Brow						
Prete					Select a file to preview.	
Fiele						
🔒 OneDri						
This PC						
New Vo						
Netwo						
Netwo						
Netwo K S ito	ems			3		
Netwo c 3 its	ems			>	sbd File v	
Netwo c 3 it	ems File name			5	v sbd File v Open Cancel	
Netwo 3 it	ems File name			3	v sbd File v Open Cancel	
Netwo c 3 it Situ Ug	ens File name				v zbd File v Open Cancel]
Netwo c 3 it Str Ug Bc	ems File name oody phtheod Pottern ar Pottern			5	v zbd File v Open Cancel]
Netwo	ems File name eady phtheod Pottern ar Pattern affic Advisor				v sbd File v Open Cancel	,

NOTE: Only the supported file format (.sbd) 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.

FUNCTION	LIGHT SENSOR						I	
	. .					8		
NPUT WIRES		port from Light	rbar					
	PROGRES	s			COMP	ETE		
)			COM			
						\leq		
				(Vie	w Details			
Rename								
Rename								
Action	Colour						(Setting Capacity :{0}
Action Not Defined	Colour						2	Setting Capacity :{0}
Action Action	Colour						5	Setting Capacity :{0}
Action Action Off	Colour						5	Setting Capacity :{0}
Action Action Off	Colour						2	Setting Capacity :{0}
Action Action Off	Colour						5	Setting Capacity :{0}

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 Lightbar

- Click to read and load its configuration and settings to the host PC (see 1.1).

③ Export to Lightbar

- 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	

Open Existing Configuration

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

Save

- Click to save current configuration and setting file to the host PC or USB drive for later use.
- **NOTE:** Users must check setting capacity before saving (see 2-2). If memory capacity exceeds 100%, setting file may be unable to upload onto the Controller Module.





2-2. Setting Centre



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).

Action	Colour	Setting Capacity : 6.39%

7 Setting Capacity

• Users must check setting capacity frequently during setting. If memory capacity exceeds 100%, setting file is unable to upload onto the Controller Module. Simplify each setting to release memory capacity.

Chapter 3: FUNCTION

3-1. Overview

								6 1 4	j 🕭 ┢
FUNCTION	T	LIGHT SENSOR	I	DIM VALUE	I	PRECEDENCE	OUTPUT	Ι	PREVIEW
0									
White: Wire 8		~							
2									
Action		~	•						100
Rename									
3		4							
Action		Colour							Setting Capacity :
Bar Pattern									
0.20.0									

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

FUNCTION	LIGHT	SENSOR	DIM VALU	JE	PRECEDENCE	1	OUTPUT		PREVIEW
NPUT WIRES									
White: Wire 8		~							
INPUT SETTING									100
Action		~							
Rename									
Action	Co	olour							Setting Capacity :
Action	Co	blour							Setting Capacity :
Action Not Defined	Co	blour							Setting Capacity :
Action Not Defined Off TD / AL	Co	blour							Setting Capacity :
Action Not Defined Off TD / AL Lighthead Pattern	Co	blour							Setting Capacity :
Action Not Defined Off TD / AL Lighthead Pattern Bar Pattern	C	blour							Setting Capacity :

① Action

· Click [Action] and then select one of the following functions for setting.

2 Rename

- Click [Rename] to change the name of an input wire.





(A) New Name

- Click to 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).

FUNCTION	LIGHT SENSOR	1	DIM VALUE	1	PRECEDENCE		OUTPUT	I	PREVIEW
INPUT WIRES									
White: Wire 8	~								
INPUT SETTING		Č.							100
Action	~								
Rename									
Action	Colour								Setting Capacity : !
Not Defined									
Off	Lighthead will re	main inacti	ve unless otherw	ise activat	ed by other wires.				
Lighthead Pattern									
Bar Pattern									

3-4-1. Not Defined

• The selected lightheads will do nothing with this control wire.

3-4-2. Off

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

3-4-3. TD / AL

• When selecting Take-down or Alley lighthead(s), check to force 100% brightness steady and disregarding other dimming function.

		LIGHT SENSOR		DIM VALUE	I	PRECEDENCE		OUTPUT	1	PREVIEW
IPUT WIRES					7					
White: Rear "Left Arrow	N"	~								
IPUT SETTING			च							
Action		~)			_					
				TA-Sw-1 TA-	Sw-1	A-Sw-1 TA-Sw-1	0 0	TA-Sw-1 TA-Sw	-1 TA-Sw-1	TA-SW-1
Rename)					TD TD			
Rename							TD TD			
Action	I	Colour							Set	ting Capacity : 5.1
Action Not Defined	1	Colour							Set	ting Capacity : 5.1
Action Not Defined Off		Colour TD / AL Stead	ly-Burn (lig	whithead disregard [Dimming F	unction)	TD TD		Set	ting Capacity : 5.1
Action Not Defined Off TD / AL Lighthead Pattern		Colour	ly-Burn (lig	whithead disregard [Dimming F	unction)			Set	ting Capacity : 5.1
Action Action Not Defined Off TD / AL Ughthead Pattern Bar Pattern		Colour	ly-Burn (lig	hthead disregard [Dimming F	unction)			Set	ting Capacity : 5.1

3-4-4. Lighthead Pattern

Action	Color
No Define	
Off	Pattern: ① Double[R65] 🗸
Steady	Phase: 2 1
Lighthead Pattern	Delay: 3 1000 ms
Bar Pattern	
Traffic Advisor	



① Pattern

- Click to select a flash pattern for the lightheads.

#	Flash Pattern	Abbreviation	Note
1	Double-ECE	2E	
2	Single-ECE	1E	
3	Triple-ECE	3E	
4	Quad-ECE	4E	
5	Random	Rdm	
6	Steady H/L	Stdy-B	100% brightness activation and reduced to 40% in second; does not affect by other dimming function.
7	Single-SAE	1	
8	Double-SAE	2	
9	Triple-SAE	3	
10	Quad-SAE	4	
11	Quint-SAE	5	
12	Mega	М	
13	Giga	G	
14	Ultra-SAE	U	
15	Single-Quad	1-4	
16	Single H/L	1HL	
17	Single-Triple-Quint	1-3-5	
18	Steady-burn (40%)	Stdy	40% brightness activation; does not affect by other dimming function.
19	Single-Single	1-1	
20	Double Double	2-2	
21	Triple-Triple Fast	3-3	
22	Triple-Triple Mid	3-3'	
23	Quint-Triple	5-3	
24	7-1 Flash	7-1	
25	Quad-Single	4-1	
26	Quint-Quint	5-5	

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 stacked with the previously set phase time.

3-4-5 Lightbar Pattern

Select a range of lightheads then click to apply a set lightbar pattern.

Action	Colour
Not Defined	
Off	2
TD / AL	Note: When selecting Full Bar Pattern, all current pattern will be override.
Lighthead Pattern	
Bar Pattern	
	Action Not Defined Off TD / AL Lighthead Pattern Bar Pattern

#	E	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 II	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	All	Pulsing	Р	
17	Clockwise	Pulsing Chaser	PC-C	
18	Anti-Clockwise	Pulsing Chaser	PC-AC	
19	All	Pulsing Fast	PF	
20	Clockwise	Pulsing Chaser Fast	PCF-C	
21	Anti-Clockwise	Pulsing Chaser Fast	PCF-AC	
22	Clockwise	Pulsing Scan Fast	PSF-C	
23	Anti-Clockwise	Pulsing Scan Fast	PSF-AC	
24	Clockwise	Pulsing Scan	PS-C	
25	Anti-Clockwise	Pulsing Scan	PS-AC	
26	Split	Pulsing Chaser Fast	PCF-LR	
27	Split	Pulsing Chaser	PC-LR	
28	Split	Pulsing Scan	PS-LR	
29	Split	Pulsing Scan Fast	PSF-LR	
30	In-Out	Pulsing Scan Wig-Wag	PSWW-IO	



3-4-6 Traffic Advisor

Action	Color		
No Define		$(\mathbf{\hat{1}})$	
Off	Left Arrow	Centre-out Arrow	Right Arrow
Steady	Left Arrow / Right A	rrow Pattern: 2 Sweep Sing	le 🗸
Lighthead Pattern	Centre-out Arrow P	attern: Sweep Sing	le 🗸
Bar Pattern			
Traffic Advisor			

① Traffic Arrow Mode

- Click to select a Traffic Arrow direction for the lightheads.
- When a wire set with Left Arrow is active with a wire set with Right Arrow, regardless of their wire precedence (priority), Centre-out Arrow and its flash pattern will be displayed.

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.

• These two patterns will be used for all Traffic Arrow action on any wire.



3-5. Colour

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

FUNCTION	LIGHT SENSOR	DIM VALUE	PRECEDENCE	OUTPUT	PREVIEW
PUT WIRES					
Orange/White: Warning Mode 1	🌙	1/3 3/2 1/2	1/3 3/2	1/3 2/3 3/1 2/3	3/1 2/3
PUT SETTING		2			2/1
Action	🔪 🍡	1/2			2/1
Rename					
	Colour				Setting Capacity : 6.
Action	A				
Colour 1	Colour 1/2	• C	olour 1/3	Colour 1/2/3	
Action Colour 1 Colour 2	Colour 1/2 Colour 2/1	• c	olour 1/3 olour 2/3	Colour 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]
- For Tri Colour lighthead(s), click one of the following options for colour setting:
 - ✓ [Colour 1]
 - ✓ [Colour 2]
 - ✓ [Colour 3]
 - ✓ [Colour 1/2]
 - ✓ [Colour 1/3]
 - ✓ [Colour 2/1]
 - ✓ [Colour 2/3]
 - ✓ [Colour 3/1]
 - ✓ [Colour 3/2]
 - ✓ [Colour 1/2/3]
 - ✓ [Colour 2/1/3]

The availability of Dual Colour or Tri Colour function depends on the product you ordered.

• The exact colour of Colour 1, 2, 3 depends on the colour option(s) for specific lighthead(s) you ordered.



Chapter 4: Light Sensor

4-1. Overview

	🔓 🕑 🗁 🗎
FUNCTION LIGHT SENSOR DIM VALUE	PRECEDENCE OUTPUT PREVIEW
	e 💿 Disable
2 Lens Colour	
Clear Amber Blue Red	3
Ambient Light (Set Clear)	Delay
< 984 Lux > 572 Lux	5 Seconds
< 1384 Lux > 854 Lux	15 Seconds
<1545 Lux > 1052 Lux	30 Seconds
'ersion: 0.32.0	

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.

	Clear Lens		Ambe	r Lens	Blue	Lens	Amber Lens		
Value 1	<984 Lux	>572 Lux	<1321 Lux	>912 Lux	<1850 Lux	>1248 Lux	Do No	ot used	
Value 2	<1384 Lux	>854 Lux	<2022 Lux	>1235 Lux	<2260 Lux	>1520 Lux	Do No	ot used	
Value 3	<1545 Lux	>1052 Lux	<2449 Lux	>1667 Lux	<2652 Lux	>1704 Lux	<2574 Lux	>1596Lux	

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

Precedence:	2 Hight / Low Setting:	3 Dim Value:
Red/White: Wire 16	Hight Power	Low Power +
1 Orange/White: Wire 15	Hight Power V	Dim 1 : 20% -
2 Yellow/White: Wire 14	Hight Power V	Dim 2: 40% 🗸
3 Green/White: Wire 13	Hight Power V	Dim 3 : 60% 🗸
4 Blue/White: Wire 12	Hight Power V	Dim 4 : 80% v
5 Purple/White: Wire 11	Hight Power V	
6 Gray/White: Wire 10	Hight Power V	
7 Black/White: Wire 9	Hight Power v	
8 White: Wire 8	Hight 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%]
 - ✓ [60%]
 - ✓ [70%]
 - ✓ [80%]
 - ✓ [90%]

Chapter 6: PRECEDENCE

6-1. Overview

Set the order of precedence for your lightbar.

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

FUNCTION	1	LIGHT SENSOR]	DIM VALUE	I	PRECEDENCE	1	OUTPUT	I	PREVIEW
Prece	dence:			1		н	ght / Low Set	ling:	(2)
o	Red/Wh	nite: Wire 16					Hight Power		1	1
1	Orange	/White: Wire 15					Hight Power			7
2	Yellow/	White: Wire 14					Hight Power			
3	Green/	White: Wire 13					Hight Power			
4	Blue/Wi	hite: Wire 12					Hight Power			
5	Purple/	White: Wire 11					Hight Power			
6	Gray/W	/hite: Wire 10					Hight Power			
7	Black/W	Vhite: Wire 9					Hight Power			
8	White:	Wire 8					Hight Power			

1 Precedence Panel

• The Precedence Panel shows the information of each wire with specific precedence. **NOTE:** To change the dimming value, click **[DIM VALUE]** to change settings (see Chapter 5).

② Change Button

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

						6 🕑	1
FUNCTION	LIGHT SENSOR	DIM VALUE	PRECEDENCE	I	OUTPUT	1	PREVIEW
Preced	lence:		н	ght / Low Setti	ing:		
o (Red/White: Wire 16			Hight Power		Δ	
1	Orange/White: Wire 15			Hight Power		V	
2 (Yellow/White: Wire 14			Hight Power			
3 (Green/White: Wire 13			Hight Power			
4 (Blue/White: Wire 12			Hight Power			
5 (Purple/White: Wire 11			Hight Power			
6 (Gray/White: Wire 10			Hight Power			
7 (Black/White: Wire 9			Hight Power			
8 (White: Wire 8			Hight Power		,	
(ersion: 0.30.0							



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





Chapter 7: Output

7-1. Overview

FUNCTIO	N	Ι	LIGH	SENSOR	I	DIM VALUE	I	PRECEDENCE	1	OUTPUT	I	PREVIEW
1 4	Output	1: WARNI		E SIGNAL					2 •	utput 2: CONTROL	PANEL SIGNA	
S	Select	wires that	will co-o	ictive with th	is 20mA s	ignal output.			Sere	elect a compatible ar or front lightheo	Control Pane ad activity.	el to display current
(00	Red/Whit	te: Wire	16				1	(SW610/SW83	0/SW830-2	
(\mathbf{O}	Orange/\	White: V	Vire 15				_		Redr Lightne	aas	
(Yellow/W	/hite: W	re 14					(SW610/SW83 Front Lighthe	0/SW830-2 ads	\supset
(\mathbf{O}	Green/W	hite: Wi	re 13				_				<u> </u>
(00	Blue/Whit	te: Wire	12				•	(No Ou	itput	
(Purple/W	hite: Wi	re 11								
(Gray/Wh	ite: Wire	10								
(\circ	Black/Wh	nite: Wir	e 9								
(White: W	Vire 8									

① Output 1 : WARNING MODE SIGNAL

Output 1 will output a 0.2A 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.

FUNCTION		1 .	NAMATHE	1	DECEDENCE	
	LIGHT SENSOR	1 1	JIM VALUE	1 2	RECEDENCE	COPUT PREVIEW
Output 1	: WARNING MODE SIGNAL					Output 2: CONTROL PANEL SIGNAL INDICATOR
Select wi	ires that will co-active with th	is 20mA signal	output.			Select a compatible Control Panel to display current rear or front lighthead activity.
R	ed/White: Wire 16				Î	SW610/SW830/SW830-2 Rear Lightheads
	Drange/White: Wire 15					
O Yi	ellow/White: Wire 14					SW610/SW830/SW830-2 Front Lightheads
	Green/White: Wire 13					
B	lue/White: Wire 12					No Output
O P	urple/White: Wire 11					
OD G	Gray/White: Wire 10					
O BI	lack/White: Wire 9					
O W	Vhite: Wire 8				¥	
Version: 0.30.0						



© 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

FUNCTI	ON	I	LIGHT SENSOR	1	DIM VALUE	1	PRECEDENCE		OUTPUT		PREVIEW
	Outpu	t 1: WARN	ING MODE SIGNAL					Out	put 2: CONTROL I	PANEL SIGNAL	
	Select	wires that	t will co-active with th	is 20mA s	ignal output.			Sele	ect a compatible r or front lighthea	Control Pane d activity.	l to display currer
		Red/Whi	te: Wire 16				i i	(SW610/SW830)/SW830-2	
	0	Orange/	White: Wire 15						Kedir Lighiniet	103	
	0	Yellow/White: Wire 14					SW610/SW830/SW830-2 Front Lightheads				
	\bigcirc	Green/W	/hite: Wire 13					(>
	0	Blue/Whi	te: Wire 12					(No Ou	tput)
	\bigcirc	Purple/W	/hite: Wire 11								
	00	Gray/Wh	ite: Wire 10								
	00	Black/Wh	nite: Wire 9								
		White: V	Niro 8								

Chapter 8: Preview

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.



to preview the set functions for control wires.

00 570P] Click to stop the preview of your lightbar.

8-2. Preview Panel

FUNCTION	LIGHT SENSOR		DIM VALUE	1	PRECEDENCE	I	OUTPUT	I	PREVIEW
	S		ADE ULTRA	A LOW	PROFILE LIG	HTBAR			
	3148 314	R 5-1-LR	3148	3-1-LR 3-1-LR	31-LR 31-LR	3-1-LR	3-1-18		
	-1-LR			00			3-1-0		
31-0	1			1			_	51HR	
	-14.R 3-14.R 3-14	8 3-148	3-1-18	3-1-18 3-1-18	3148 3448	3-1-18	3-1-18		
			التقاد						
Preview Panel : Select the wir	e(s) to preview.								
Red/White: Wire 1	6 : Output : E	nabled / Inpu	t Setting : Actio	on / Dim Va	lue : Hight Power				
Orange/White: Wi	re 15 : Outpu	it : Disabled / I	nput Setting : /	Action / Dim	Nalue : Hight Powe	er			
Yellow/White: Wire	: 14 : Output	: Disabled / In	put Setting : Ad	ction / Dim	Value : Hight Power				
Green/White: Wire	13 : Output	: Disabled / In	put Setting : Ac	ction / Dim	Value : Hight Power				
Blue/White: Wire 1	2 : Output : [Disabled / Inpu	t Setting : Action	on / Dim Vo	lue : Hight Power				
Purple/White: Wire	11 : Output	: Disabled / In	put Setting : Ac	ction / Dim	Value : Hight Power				
	· Output ·	Disabled / Inp	ut Setting : Act	tion / Dim V	alue : Hight Power				
Gray/White: Wire	. Ouipui.	Bisabioa / inp							

- 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.



Chapter 9: Preparing USB Drive for remote upload (S-Flash)

9-1. Preparing S-Flash USB Drive

All function wires may be customized and re-programmed via pre-prepared USB Drive without using PC or other specialized tool.

Follow the steps below to accomplish the S-Flash:

- 1. Check the compatibility of your USB storage drive. (see Compatible USB Device Chart below) Plug this USB drive onto your host PC.
- 2. Complete all lightbar settings in Chapter 3 to Chapter 7.
- 3. Follow instructions on Chapter 2-1.5 (page 8) to save the setting file.
- 4. Place the saved setting into this USB drive; rename the file as "LSBD_Setting.sbd".

Compatible USB Device Chart										
Tested Capacity	4GB	8GB	32GB							
Compatible File System	exFAT	FAT32	FAT16							
Not Compatible File System		NTFS								

9-2. Uploading Setting File onto Controller Module

- 1. Ready and plug the prepared USB drive into the USB port on the Controller Module.
- 2. Check that Mode Switch is at Normal / S-Flash Mode.
- 3. Power-up the Controller Module by applying +VDC to RED wire on the 6-PIN harness.
- 4. Press Status LED Button once to start S-Flash.
- 5. Once done, the Status LED should display Flashing Green continuously.
- If the Status LED displays Flashing Red continuously, repeat step 4 or check your USB drive and the software file.
- 7. Unplug the USB drive and press Status LED Button again to reboot your Controller Module.
- 8. Once rebooted, the Status LED should display Steady Green.
- 9. The new software is loaded and ready for use. Test all function of your lightbar before actual operation.

NOTE: Users must check setting capacity before saving (see 2-2). If memory capacity exceeds 100%, setting file may be unable to upload onto the Controller Modu