

# WHELEN<sup>®</sup>

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### Installation Guide: Control Point Module for WeCan<sup>®</sup> Lightbars

**⚠ WARNING:** This product can expose you to chemicals including Lead which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

#### Overview -

*Note: If installing a WeCan lightbar into a system that includes either a Whelen CenCom Sapphire or Whelen Control, the Control Point Module is no longer required. The lightbar can be plugged directly into either of the previously mentioned units. In that event, please refer to the applicable instructional material for connection information.*

The Control Point Module serves as the 'brains' of the Whelen WC Series lightbar. The module is programmed with the WeCan™ Programming Software via the USB port and in turn, provides the necessary signals that allow the lightbar to function in the desired manner.

As represented in the WeCan™ Programming software, each of the 18 inputs may be programmed to activate any number or combination of the installed lightbar components. This is accomplished by applying +12VDC to an input. The default configurations for specific lightbars are shown on page 2.

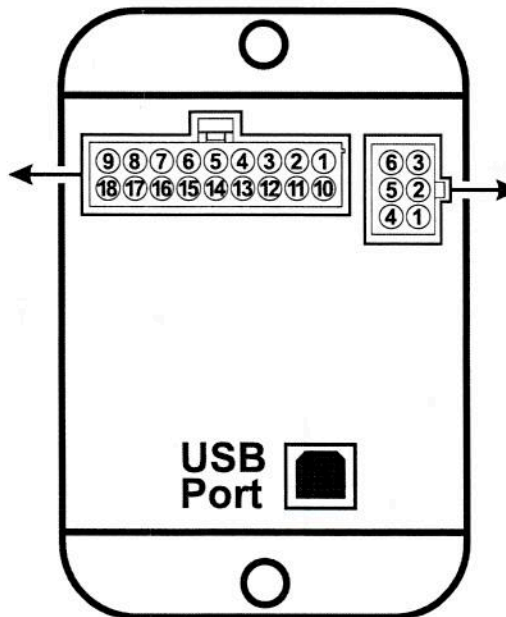
**Important -** The pattern override feature will override all active LED lightheades with the pattern override flash pattern.

#### Programming Procedure -

**IMPORTANT -** It is not necessary to program this device unless changes to the default configuration (for example pattern or switch control changes) are desired.

1. Connect a USB cable from the host PC to the module's USB port.
2. Start the WeCan software on the host PC and open the configuration to be programmed.
3. Click on the "WeCan" button on the menu bar. Select "Control Point" then "Program" from the fly-out.
4. A window will open to confirm that you are about to program a Control Point Module. Confirm that the USB cable is connected to both the module and the PC and then press "OK" to continue. The software will display a window when the programming procedure has been successfully completed.
5. Confirm proper operation of the module.

Refer to the appropriate table on page 2 for information on the default configuration for your application.



**LIGHTBAR CABLE CONNECTOR**

POS	COLOR	FUNCTION
1	RED <sup>1</sup>	+12VDC
2	None	
3	BLACK	GROUND
4	GREEN <sup>2</sup>	COMM. A
5	BLK/WHT <sup>2</sup>	SHIELD
6	GREY <sup>2</sup>	COMM. B

<sup>1</sup> Connect to an ignition controlled circuit that can accommodate an additional 250mA load.

<sup>2</sup> from lightbar

Automotive: Serial Communications

## LIBERTY, JUSTICE, FREEDOM, FREEDOM 2 (Seq.)

Pos	Color	Function
1	GRN	Fr. Pat.1 - Ultra Scan
2	GRN/WHT	Fr. Pat.2 - CA Ultra
3	GRN/BLK	Fr. Pat.3 - CA Single Ultra Scan
4	WHT/RED	Fr. Pat.4 - CA Bar
5	WHT	Driver Alley
6	YEL	Pass Alley
7	WHT/VIO	AUX
8	WHT/GRN	Right T/A or Pass. BTT
9	WHT/ORG	Cruise Lights
10	BLU	Rr. Pat.1-Ultra Scan
11	BLU/WHT	Rr. Pat.2-CA Ultra
12	BLU/BLK	Rr. Pat.3-CA Single Ultra Scan or Tail
13	WHT/BRN	Rr. Pat.4-CA Bar
14	WHT/BLK	Take-Downs Steady
15	WHT/BLU	Flashing T-D / Alley
16	RED/WHT	Steady Override
17	WHT/YEL	Left T/A or Driver BTT
18	VIO	Low Power

## DUO INNER EDGE XLP

Pos	Color	Function
1	GRN	Alt Drvr-Pass SA 75
2	GRN/WHT	Alt Side To Side SA 75
3	GRN/BLK	In-Out SA 75
4	WHT/RED	Alt Drvr-Pass ASYNC
5	WHT	Drvr Outboard DUO Steady
6	YEL	Pass Outboard DUO Steady
7	WHT/VIO	CA Steady
8	WHT/GRN	Outboard DUO Flash Single 150
9	WHT/ORG	Cruise Lights
10	BLU	CA Bar Pattern
11	BLU/WHT	Ultra Scan Bar Pattern
12	BLU/BLK	CA Single Ultra Scan Bar Pattern
13	WHT/BRN	ZZ CA 75 Bar Pattern
14	WHT/BLK	Center DUO Steady
15	WHT/BLU	Alt Side To Side DUO Dbl. Flash 75
16	RED/WHT	All DUO Steady
17	WHT/YEL	Center DUO Flash Single 75
18	VIO	Low Power

## LEGACY, LIBERTY II, FREEDOM IV, CENATOR™ SOLO

Pos	Color	Function
1	GRN	Fr. Pat.1 - Ultra Scan
2	GRN/WHT	Fr. Pat.2 - CA Bar
3	GRN/BLK	Fr. Pat.3 - CA Single Ultra Scan
4	WHT/RED	Fr. Pat.4 - Alternating SA 75
5	WHT	Drvr. Alley
6	YEL	Pass. Alley
7	WHT/VIO	AUX
8	WHT/GRN	Right T/A or Pass. BTT
9	WHT/ORG	Cruise Lights
10	BLU	Rr. Pat.1 - Ultra Scan
11	BLU/WHT	Rr. Pat.2 - CA Bar
12	BLU/BLK	Rr. Pat.3 - CA Single Ultra Scan or Tail
13	WHT/BRN	Rr. Pat.4 - Alternating SA 75
14	WHT/BLK	T-D Steady
15	WHT/BLU	Flashing T-D / Alley
16	RED/WHT	Fr. / Rr. Warning Steady
17	WHT/YEL	Left T/A or Drv. BTT
18	VIO	Low Power

## DUO LIBERTY

Pos	Color	Function
1	GRN	Fr. Pat.1 - Duo Ultra
2	GRN/WHT	Fr. Pat.2 - Duo Single Ultra
3	GRN/BLK	Fr. Pat.3 - Duo Bar
4	WHT/RED	Pass. Corner Steady
5	WHT	Drvr. Alley Steady
6	YEL	Pass. Alley Steady
7	WHT/VIO	AUX
8	WHT/GRN	Right T/A or Pass. BTT
9	WHT/ORG	Cruise Lights
10	BLU	Rr. Pat.1 - Duo Ultra
11	BLU/WHT	Rr. Pat.2 - Duo Single Ultra
12	BLU/BLK	Rr. Pat.3 - Duo Bar or Tail
13	WHT/BRN	Drvr. Corner Steady
14	WHT/BLK	T-D Steady
15	WHT/BLU	Flashing T-D / Alley
16	RED/WHT	Fr. Steady Duo
17	WHT/YEL	Left T/A or Drvr. BTT
18	VIO	Low Power

## TRIO LIBERTY

Pos	Color	Function
1	GRN	Fr. Pat.1 - Duo Ultra
2	GRN/WHT	Fr. Pat.2 - Duo Single Ultra
3	GRN/BLK	Fr. Steady-Tri
4	WHT/RED	Pass. Corner-Tri
5	WHT	Drvr. Alley
6	YEL	Pass. Alley
7	WHT/VIO	AUX
8	WHT/GRN	Right T/A
9	WHT/ORG	Cruise Lights
10	BLU	Rr. Pat.1 - DUO Ultra
11	BLU/WHT	Rr. Pat.2 - DUO Single Ultra
12	BLU/BLK	Rr. Steady-Tri
13	WHT/BRN	Drvr. Corner Steady-Tri
14	WHT/BLK	T-D Steady
15	WHT/BLU	Flashing Alley/T-D
16	RED/WHT	All Bar Steady-DUO
17	WHT/YEL	Left T/A
18	VIO	Low Power

## LEGACY, LIBERTY II, FREEDOM IV and CENATOR™ DUO

Pos	Color	Function
1	GRN	Fr. Pat. 1 - Ultra Scan
2	GRN/WHT	Fr. Pat. 2 - CA Bar
3	GRN/BLK	Fr. Pat. 3 - CA Single Ultra Scan
4	WHT/RED	Fr. Pat. 4 - Alt. SA 75
5	WHT	Drvr. Alley
6	YEL	Pass. Alley
7	WHT/VIO	AUX
8	WHT/GRN	Right T/A or Pass. BTT
9	WHT/ORG	Cruise Lights
10	BLU	Rr. Pat. 1 - Ultra Scan
11	BLU/WHT	Rr. Pat. 2 - CA Bar
12	BLU/BLK	Rr. Pat. 3 - CA Single Ultra Scan or Tail
13	WHT/BRN	Rr. Pat. 4 - Alt. SA 75
14	WHT/BLK	T-D Steady
15	WHT/BLU	Flashing T-D / Alley
16	RED/WHT	F / R Warning Steady
17	WHT/YEL	Left T/A or Drvr. BTT
18	VIO	Low Power

## 2X2 LIBERTY, JUSTICE, FREEDOM, FREEDOM2

Pos	Color	Function
1	GRN	Fr. Corners SA 75
2	GRN/WHT	Fr. Outboards SA 75
3	GRN/BLK	Fr. Inboards SA 75
4	WHT/RED	Fr. Center & Middle SA 75
5	WHT	Drvr. Alley or Pass. BTT
6	YEL	Pass. Alley
7	WHT/VIO	AUX
8	WHT/GRN	Right T/A
9	WHT/ORG	Cruise Lights
10	BLU	Rr. Corners SA 75
11	BLU/WHT	Rr. Outboards SA 75
12	BLU/BLK	Rr. Inboards SA 75 or Tail
13	WHT/BRN	Rr. Center & Middle SA 75
14	WHT/BLK	T-D Steady or Drvr. BTT
15	WHT/BLU	Flashing Alley/T-D
16	RED/WHT	All Bar Pattern (Ultra Scan)
17	WHT/YEL	Left T/A
18	VIO	Low Power

## LEGACY, LIBERTY II and CENATOR™ TRIO

Pos	Color	Function
1	GRN	Fr. Pat.1 - Duo Ultra
2	GRN/WHT	Fr. Pat.2 - Long Flash Trio
3	GRN/BLK	Fr. Pat.3 - Color 2 Steady
4	WHT/RED	Pass. Endcap Steady
5	WHT	Drvr. Alley Steady
6	YEL	Pass. Alley Steady
7	WHT/VIO	All Bar ZigZag Blast
8	WHT/GRN	Right T/A
9	WHT/ORG	Cruise Lights
10	BLU	Rr. Pat.1 - Duo Ultra
11	BLU/WHT	Rr. Pat.2 - Long Flash Trio
12	BLU/BLK	Rr. Pat.3 - Col. 2 Steady or Col. 3 Steady
13	WHT/BRN	Drvr. Endcap Steady
14	WHT/BLK	T-D Steady
15	WHT/BLU	Flashing T-D / Alley
16	RED/WHT	Steady Override
17	WHT/YEL	Left T/A
18	VIO	Low Power

## WECAN LEGACY, LIBERTY II, FREEDOM IV w/AUX BTT

Pos	Color	Function
1	GRN	Fr. Pat.1 - Ultra Scan
2	GRN/WHT	Fr. Pat.2 - CA Ultra
3	GRN/BLK	Pass. BTT
4	WHT/RED	Fr. Pat.4 - CA Bar
5	WHT	Drvr. Alley Steady
6	YEL	Pass. Alley Steady
7	WHT/VIO	Tail
8	WHT/GRN	Right T/A
9	WHT/ORG	Cruise Lights
10	BLU	Rr. Pat.1 - Ultra Scan
11	BLU/WHT	Rr. Pat.2 - CA Ultra
12	BLU/BLK	Drvr. BTT
13	WHT/BRN	Rr. Pat.4 - CA Bar
14	WHT/BLK	T-D Steady
15	WHT/BLU	Flashing Alley/T-D
16	RED/WHT	Steady Override
17	WHT/YEL	Left T/A
18	VIO	Low Power

**ProFocus™-equipped Systems:**  
Systems with lightbars equipped with ProFocus™ technology require the installer to program the WeCan® module based on their specific equipment layout.