

# WHELEN<sup>®</sup>

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

### Overview -

The Control Point Module serves as the 'brains' of the Whelen WC Series lightbar. The module is programmed with the WeCan<sup>™</sup> 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 12 inputs may be programmed to activate any number or combination of the installed lightbar components. This is accomplished by applying +12VDC to an input. Refer to the installation guide included with your switches for wiring information.

All Control Point Modules leave the factory programmed with identical configurations. For example, in the factory default configuration, applying +12VDC to the #5 input will cause all 4 corner modules to display an alternating SignalAlert<sup>™</sup> pattern.

The default configuration for all control point modules is outlined below.

**Understanding Priority -** It is important to understand that the higher the pin number of an input, the higher the priority of any lighthead activated with that input. In the default configuration, applying +12VDC to input 6 activates flashing alley lights and take-downs. These will remain active for as long as voltage is applied to input 6 unless a higher priority input that has been configured to turn these lighthead off is activated. If input 9 is activated while Input 6 is active, the take-down lights will now be on steady. Because Input 9 is not configured to change the alley lights, they are not effected. Remember that **active** higher priority inputs always supercedes **active** lower priority inputs.

### Programming Procedure -

1. Connect a USB cable from the host PC to the module's USB port.
2. Start the WeCan<sup>™</sup> 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.

### USB Troubleshooting -

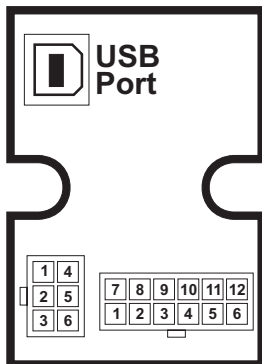
**"Unrecognized USB Device" Error:** Unplug the USB cable from the module, wait 2 seconds, and replug the USB cable into the module.

If the same error is generated, unplug the USB cable from the module, apply power to the module and replug the USB cable.

**"High Voltage Detected on USB Port" Error:** This error indicates that a 'Ground Loop' is present. Remove or rectify this ground loop. If the loop can not be located/isolated from the problematic power source, connect both the PC and the module to the same power source when programming.

If programming on a test bench, connect the 12V power supply powering the WeCan Control Point to the same AC outlet as the PC. If programming in a vehicle, connect both the module and the laptop to the vehicle's power source. If this is not possible, use the laptop exclusively on battery power while programming.

DEFAULT CONFIGURATION (12V Inputs)



Pin#	Color	Lighthead / Function	Lighthead / Function Freedom II
1	BRN	Front / UltraScan	Front,Upper / UltraScan
2	RED	Rear / UltraScan	Rear,Upper / UltraScan
3	ORG	All / UltraScan	Front,Lower / UltraScan
4	YEL	All / Alt.In-Out Blast	Rear,Lower / UltraScan
5	GRN	4 Corners / Alternating SignalAlert <sup>™</sup>	4 Corners / Alternating SignalAlert
6	BLU	Flashing Alley & T-D's / DoubleFlash 75	Flashing Alley & TD's / DoubleFlash 75
7	VIO	Left Alley	Left Alley
8	GRY	Right Alley	Right Alley
9	WHT	Take-downs	Take-downs
10	WHT/BLK	Traffic Advisor <sup>™</sup> (Momentary)	Traffic Advisor (Momentary)
11	WHT/BRN	Cruise Lights (4 corners)	Cruise Lights (4 corners)
12	WHT/RED	Low Power	Low Power

Pin#	Color	Function
1	RED <sup>1</sup>	+12VDC
2	None	
3	BLK	Ground
4	GRN <sup>2</sup>	Comm. A
5	BLK/WHT <sup>2</sup>	Shield
6	GRY <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

**For warranty information regarding this product, visit [www.whelen.com/warranty](http://www.whelen.com/warranty)**