

WHELEN[®]

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Installation Guide: Control Point Module for WeCan[®] Lightbars

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.

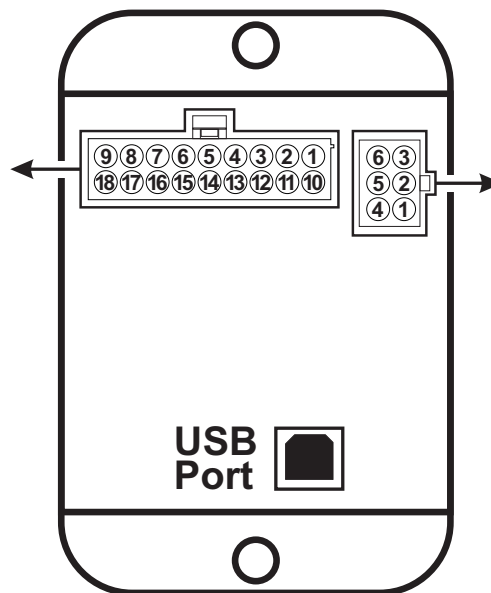
Important - The pattern override feature will override all active LED lighthoods with the pattern override flash pattern.

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 ¹ | +12VDC |
| 2 | None | |
| 3 | BLACK | GROUND |
| 4 | GREEN ² | COMM. A |
| 5 | BLK/WHT ² | SHIELD |
| 6 | GREY ² | COMM. B |

¹ Connect to an ignition controlled circuit that can accommodate an additional 250mA load.

² from lightbar

For warranty information regarding this product, visit www.whelen.com/warranty

LIBERTY, JUSTICE, FREEDOM, FREEDOM 2 (SEQUENCE)

| Pos | Color | Function |
|-----|---------|--|
| 1 | GRN | Front Pattern 1 - Ultra Scan |
| 2 | GRN/WHT | Front Pattern 2 - CA Ultra |
| 3 | GRN/BLK | Front Pattern 3 - CA Single Ultra Scan |
| 4 | WHT/RED | Front Pattern 4 - CA Bar |
| 5 | WHT | Driver Alley |
| 6 | YEL | Pass Alley |
| 7 | WHT/VIO | AUX |
| 8 | WHT/GRN | Right Traffic Advisor or Passenger BTT |
| 9 | WHT/ORG | Cruise Lights |
| 10 | BLU | Rear Pattern 1 - Ultra Scan |
| 11 | BLU/WHT | Rear Pattern 2 - CA Ultra |
| 12 | BLU/BLK | Rear Pattern 3 - CA Single Ultra Scan or Tail |
| 13 | WHT/BRN | Rear Pattern - CA Bar |
| 14 | WHT/BLK | Take-Downs Steady |
| 15 | WHT/BLU | Flashing Take-Downs/Alley |
| 16 | RED/WHT | Steady Override |
| 17 | WHT/YEL | Left Traffic Advisor or Driver BTT |
| 18 | VIO | Low Power |

DUO INNER EDGE XLP

| Pos | Color | Function |
|-----|---------|--------------------------------------|
| 1 | GRN | Alt Driver-Passenger SA 75 |
| 2 | GRN/WHT | Alt Side To Side SA 75 |
| 3 | GRN/BLK | In Out SA 75 |
| 4 | WHT/RED | Alt Driver-Passenger ASYNC |
| 5 | WHT | Driver Outboard DUO Steady |
| 6 | YEL | Passenger 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 Double Flash 75 |
| 16 | RED/WHT | All DUO Steady |
| 17 | WHT/YEL | Center DUO Flash Single 75 |
| 18 | VIO | Low Power |

DUO LIBERTY

| Pos | Color | Function |
|-----|---------|---|
| 1 | GRN | Front Pattern 1 - Duo Ultra |
| 2 | GRN/WHT | Front Pattern 2 - Duo Single Ultra |
| 3 | GRN/BLK | Front Pattern 3 - Duo Bar |
| 4 | WHT/RED | Passenger Corner Steady |
| 5 | WHT | Driver Alley Steady |
| 6 | YEL | Passenger Alley Steady |
| 7 | WHT/VIO | AUX |
| 8 | WHT/GRN | Right Traffic Advisor or Passenger BTT |
| 9 | WHT/ORG | Cruise Lights |
| 10 | BLU | Rear Pattern 1 - Duo Ultra |
| 11 | BLU/WHT | Rear Pattern 2 - Duo Single Ultra |
| 12 | BLU/BLK | Rear Pattern 3 - Duo Bar or Tail |
| 13 | WHT/BRN | Driver Corner Steady |
| 14 | WHT/BLK | Take-downs Steady |
| 15 | WHT/BLU | Flashing Take-Downs/Alley |
| 16 | RED/WHT | Front Steady Duo |
| 17 | WHT/YEL | Left Traffic Advisor or Driver BTT |
| 18 | VIO | Low Power |

LEGACY, LIBERTY II, FREEDOM IV and CERIDIAN SOLO

| Pos | Color | Function |
|-----|---------|--|
| 1 | GRN | Front Pattern 1 - Ultra Scan |
| 2 | GRN/WHT | Front Pattern 2 - CA Bar |
| 3 | GRN/BLK | Front Pattern 3 - CA Single Ultra Scan |
| 4 | WHT/RED | Front Pattern 4 - Alternating SA 75 |
| 5 | WHT | Driver Alley |
| 6 | YEL | Passenger Alley |
| 7 | WHT/VIO | AUX |
| 8 | WHT/GRN | Right Traffic Advisor or Passenger BTT |
| 9 | WHT/ORG | Cruise Lights |
| 10 | BLU | Rear Pattern 1 - Ultra Scan |
| 11 | BLU/WHT | Rear Pattern 2 - CA Bar |
| 12 | BLU/BLK | Rear Pattern 3 - CA Single Ultra Scan or Tail |
| 13 | WHT/BRN | Rear Pattern 4 - Alternating SA 75 |
| 14 | WHT/BLK | Take-Downs Steady |
| 15 | WHT/BLU | Flashing Take-Downs/Alley |
| 16 | RED/WHT | Front/Rear Warning Steady |
| 17 | WHT/YEL | Left Traffic Advisor or Driver BTT |
| 18 | VIO | Low Power |

TRIO LIBERTY

| Pos | Color | Function |
|-----|---------|------------------------------------|
| 1 | GRN | Front Pattern 1 - Duo Ultra |
| 2 | GRN/WHT | Front Pattern 2 - Duo Single Ultra |
| 3 | GRN/BLK | Front Steady-Tri |
| 4 | WHT/RED | Passenger Corner-Tri |
| 5 | WHT | Driver Alley |
| 6 | YEL | Pass Alley |
| 7 | WHT/VIO | AUX |
| 8 | WHT/GRN | Right Traffic Advisor |
| 9 | WHT/ORG | Cruise Lights |
| 10 | BLU | Rear Pattern 1 - DUO Ultra |
| 11 | BLU/WHT | Rear Pattern 2 - DUO Single Ultra |
| 12 | BLU/BLK | Rear Steady-Tri |
| 13 | WHT/BRN | Driver Corner Steady-Tri |
| 14 | WHT/BLK | Take-Downs Steady |
| 15 | WHT/BLU | Flashing Alley/Take-Downs |
| 16 | RED/WHT | All Bar Steady-DUO |
| 17 | WHT/YEL | Left Traffic Advisor |
| 18 | VIO | Low Power |

LEGACY, LIBERTY II, FREEDOM IV and CERIDIAN DUO

| Pos | Color | Function |
|-----|---------|--|
| 1 | GRN | Front Pattern 1 - Ultra Scan |
| 2 | GRN/WHT | Front Pattern 2 - CA Bar |
| 3 | GRN/BLK | Front Pattern 3 - CA Single Ultra Scan |
| 4 | WHT/RED | Front Pattern 4 - Alternating SA 75 |
| 5 | WHT | Driver Alley |
| 6 | YEL | Passenger Alley |
| 7 | WHT/VIO | AUX |
| 8 | WHT/GRN | Right Traffic Advisor or Passenger BTT |
| 9 | WHT/ORG | Cruise Lights |
| 10 | BLU | Rear Pattern 1 - Ultra Scan |
| 11 | BLU/WHT | Rear Pattern 2 - CA Bar |
| 12 | BLU/BLK | Rear Pattern 3 - CA Single Ultra Scan or Tail |
| 13 | WHT/BRN | Rear Pattern 4 - Alternating SA 75 |
| 14 | WHT/BLK | Take-Downs Steady |
| 15 | WHT/BLU | Flashing Take-Downs/Alley |
| 16 | RED/WHT | Front/Rear Warning Steady |
| 17 | WHT/YEL | Left Traffic Advisor or Driver BTT |
| 18 | VIO | Low Power |

2X2 LIBERTY, JUSTICE, FREEDOM, FREEDOM2

| Pos | Color | Function |
|-----|---------|--|
| 1 | GRN | Front Corners SA 75 |
| 2 | GRN/WHT | Front Outboards SA 75 |
| 3 | GRN/BLK | Front Inboards SA 75 |
| 4 | WHT/RED | Front Center & Middle SA 75 |
| 5 | WHT | Driver Alley or Passenger BTT |
| 6 | YEL | Passenger Alley |
| 7 | WHT/VIO | AUX |
| 8 | WHT/GRN | Right Traffic Advisor |
| 9 | WHT/ORG | Cruise Lights |
| 10 | BLU | Rear Corners SA 75 |
| 11 | BLU/WHT | Rear Outboards SA 75 |
| 12 | BLU/BLK | Rear Inboards SA 75 or Tail |
| 13 | WHT/BRN | Rear Center & Middle SA 75 |
| 14 | WHT/BLK | Take-Downs Steady or Driver BTT |
| 15 | WHT/BLU | Flashing Alley/Take-Downs |
| 16 | RED/WHT | All Bar Pattern (Ultra Scan) |
| 17 | WHT/YEL | Left Traffic Advisor |
| 18 | VIO | Low Power |

LEGACY, LIBERTY II and CERIDIAN TRIO

| Pos | Color | Function |
|-----|---------|--|
| 1 | GRN | Front Pattern 1 - Duo Ultra |
| 2 | GRN/WHT | Front Pattern 2 - Long Flash Trio |
| 3 | GRN/BLK | Front Pattern 3 - Color 2 Steady |
| 4 | WHT/RED | Passenger Endcap Steady |
| 5 | WHT | Driver Alley Steady |
| 6 | YEL | Passenger Alley Steady |
| 7 | WHT/VIO | All Bar ZigZag Blast |
| 8 | WHT/GRN | Right Traffic Advisor |
| 9 | WHT/ORG | Cruise Lights |
| 10 | BLU | Rear Pattern 1 - Duo Ultra |
| 11 | BLU/WHT | Rear Pattern 2 - Long Flash Trio |
| 12 | BLU/BLK | Rear Pattern 3 - Color 2 Steady or Color 3 Steady |
| 13 | WHT/BRN | Driver Endcap Steady |
| 14 | WHT/BLK | Take-Downs Steady |
| 15 | WHT/BLU | Flashing Take-Downs/Alley |
| 16 | RED/WHT | Steady Override |
| 17 | WHT/YEL | Left Traffic Advisor |
| 18 | VIO | Low Power |