



WHELEN FREEDOM LIGHT BARS

OVERVIEW

You may have seen at the recent trade shows that Whelen is phasing out the Whelen Freedom LED light bars in favor of their new Freedom IV Series light bars.

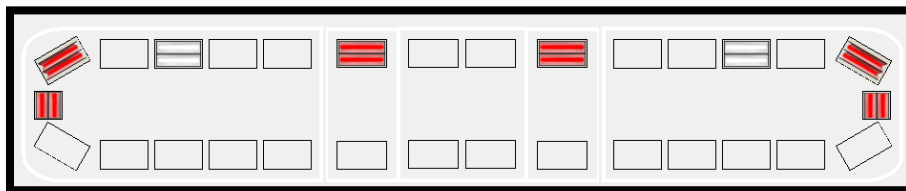
The following pages are a presentation that Whelen has put together to show the features of the new Freedom IV Series.

Some things of importance to note:

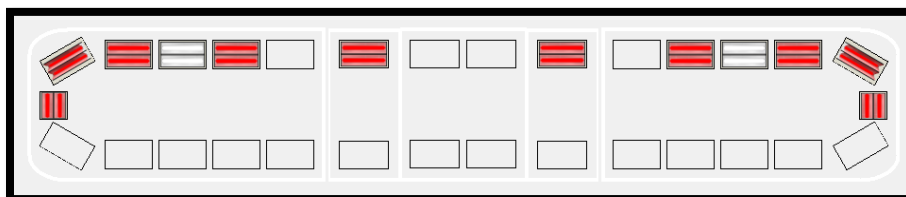
1. The height and mounting feet will not change with the new configuration. The Freedom IV is $\frac{1}{2}$ " wider (front to back).
2. The light bars will be more populated with LEDs due to a change in the mounting of the LED modules. This will get rid of the black "dead space" we have been used to seeing in the previous Freedom Series.
3. The new configuration has less joints to provide better sealing.
4. The Mini Freedom bars (24" and 28") are both being discontinued. These will be replaced with a 21.5" version (outlined in the following pages).
5. The outer lenses on all of the light bars are clear. If your customer desires colored lenses, this will be accomplished with colored filters installed behind the clear lenses (shown in the following pages).

The below layouts show how the current configurator/SQS2 options correlate to the new Freedom IV layouts.

Freedom IV 72" 8-Module:



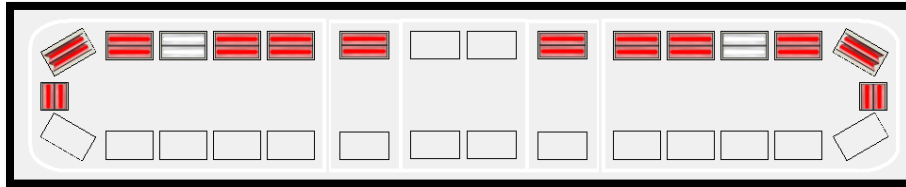
Freedom IV 72" 12-Module (notice the additional "dead spaces" that were not present with the former Freedom 12 bar):



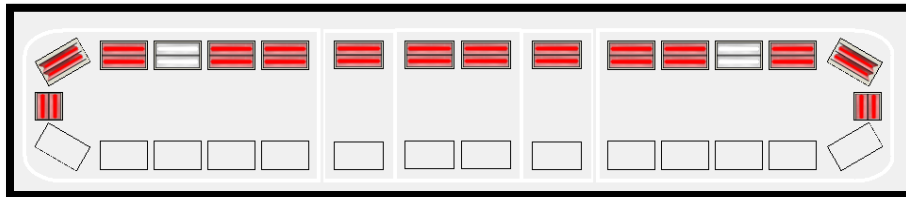


WHELEN FREEDOM LIGHT BARS

Freedom IV 72" 14-Module:



Freedom IV 72" 16-Module (fully populated – CANNOT have built-in LED Opticom with this bar):



Any "blank" or "dead" spaces will receive an aluminum plate filling those voids as shown below:



We are working to get these options updated in our configurator/SQS2 as quickly as possible.

Until these are implemented in the configurator, please use the following prices to add additional LED modules to the main light bars:

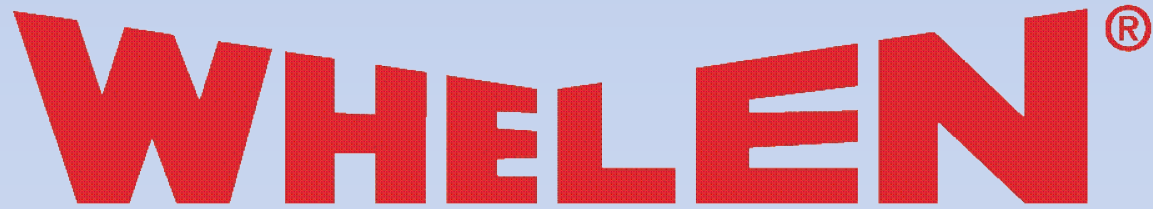
Upgrade Freedom 12 option to Freedom IV 14-module = Add \$355.50

Upgrade Freedom 12 option to Freedom IV 16-module = Add \$711.00

If you have any questions about the new light bars or configurations, please contact your Sales Application Engineer, your local Whelen representative, or we can put you in touch with our OEM representative at Whelen.



Freedom® IV



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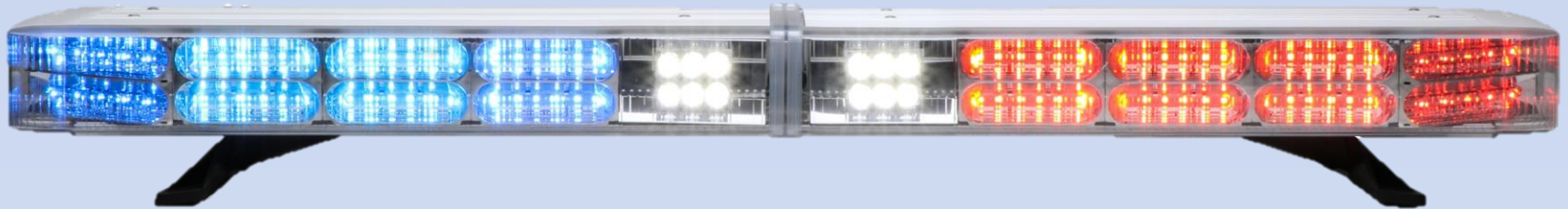
Refer to published product bulletins for specifications.

Origins of the Freedom[®] Lightbar



- Based on the Original Edge[®] Ultra[™] Strobe Series

Freedom® IV

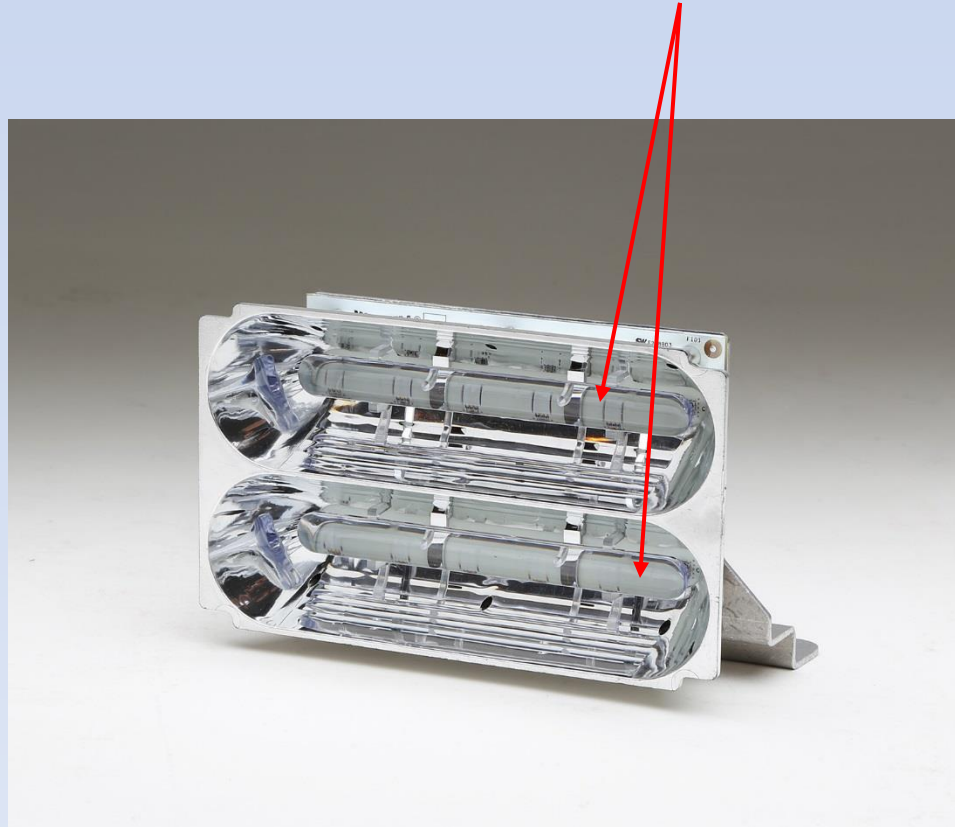


- Replaces Freedom and Freedom II Series
- Low Current or WeCAN® input control
- Features and options typical of the Freedom Series
- DYAD™ modules available in single or two color
- Center options, i.e. Traffic Pre-Emption, Lighted Signs

Freedom® IV

Glossary of Terms

DYAD – Something that consists of two elements or parts



Freedom[®]

Freedom IV



- ½ inch wider, same height
- Corner lights blend together for improved performance

WHELEN[®]

Freedom®

Freedom IV



- Similar configurations as the original Freedom Series
- Same exterior height
- Contiguous lighting due to the removal of lighthouse mounting brackets provides a uniformed look
- Increase in the number of inboard modules allows for higher performance

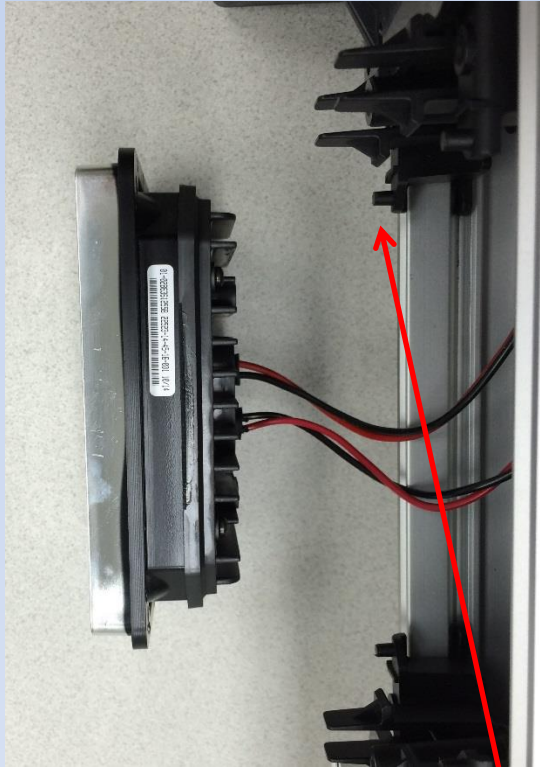
Freedom®

Freedom IV



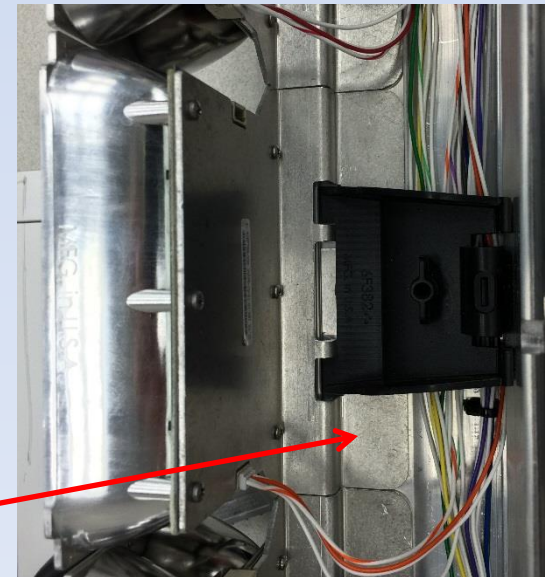
- Original Series has multiple Sealing Points
- New Silicone Divider Linear Injection Molded Gasket Divider Freedom Series
- One T-25 screw bit required for removal

Freedom®



- Freedom lighthead mounts with plastic lighthead Bracket
- Freedom IV lightheads transfer heat via the aluminum mounting bracket to the extrusion

Freedom IV



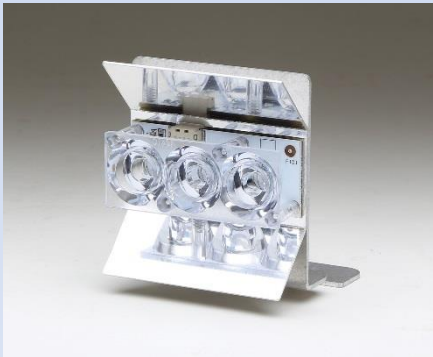
Freedom[®] IV Take-down Options



- F4TL6 – Full Take-Down with 6 LEDs



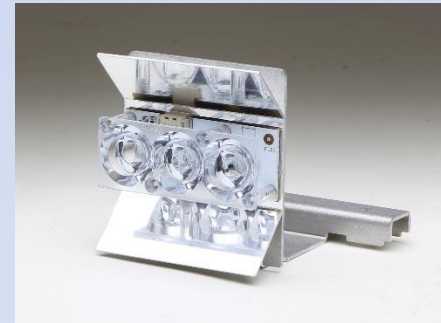
- F4TS6 – Half Take-Down with 6 LEDs



- F4TS3 – Single row half Take-Down with 3 LEDs

Freedom[®] IV Alleylight Options

- F4A6 - Dual row with 6 LEDs
- F4A3 – Single row with 3 LEDs
- F4WA* - End warning / Alley combination with 6 LEDs

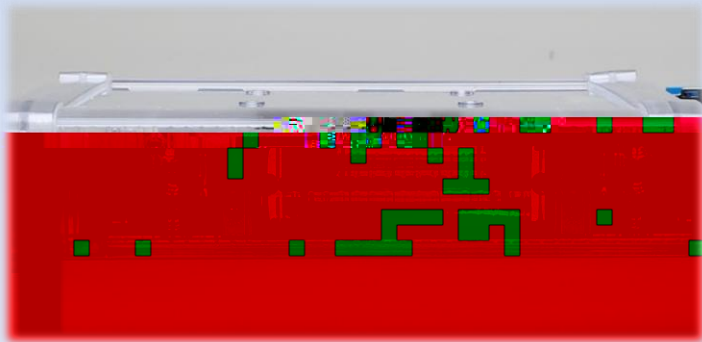


Freedom® IV Center Options

(Liberty II shown for reference)



- 795H GTT LED Emitter
- F4795HT LED Emitter with two vertical LED take-down modules
- F4500S Strobe Tube*
- F4500ST Strobe Tube* with two vertical LED take-down modules



* Includes 3/c strobe cable to attach to customer supplied remote power supply

Freedom[®] IV

Inboard Warning Options

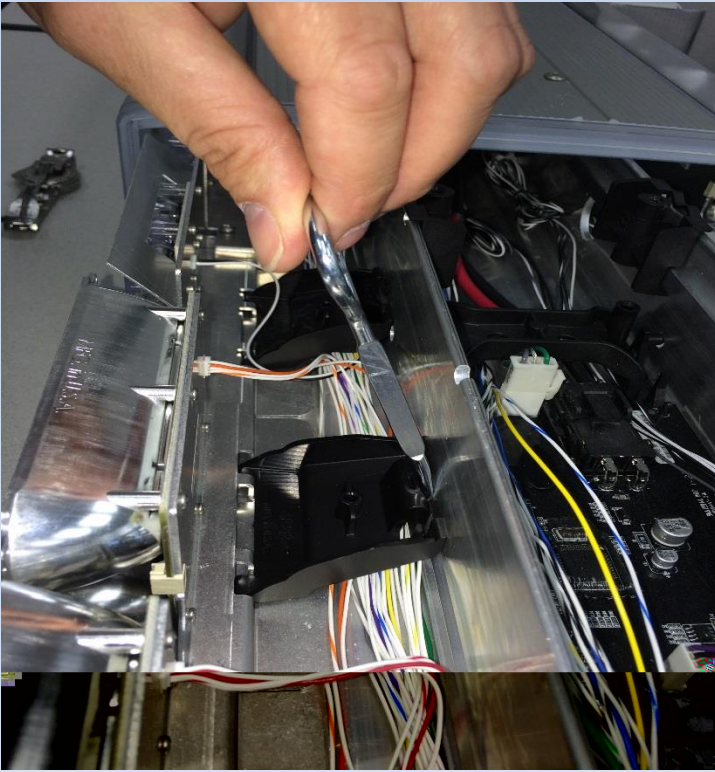
- F4DL* - Long module with 12 LEDs



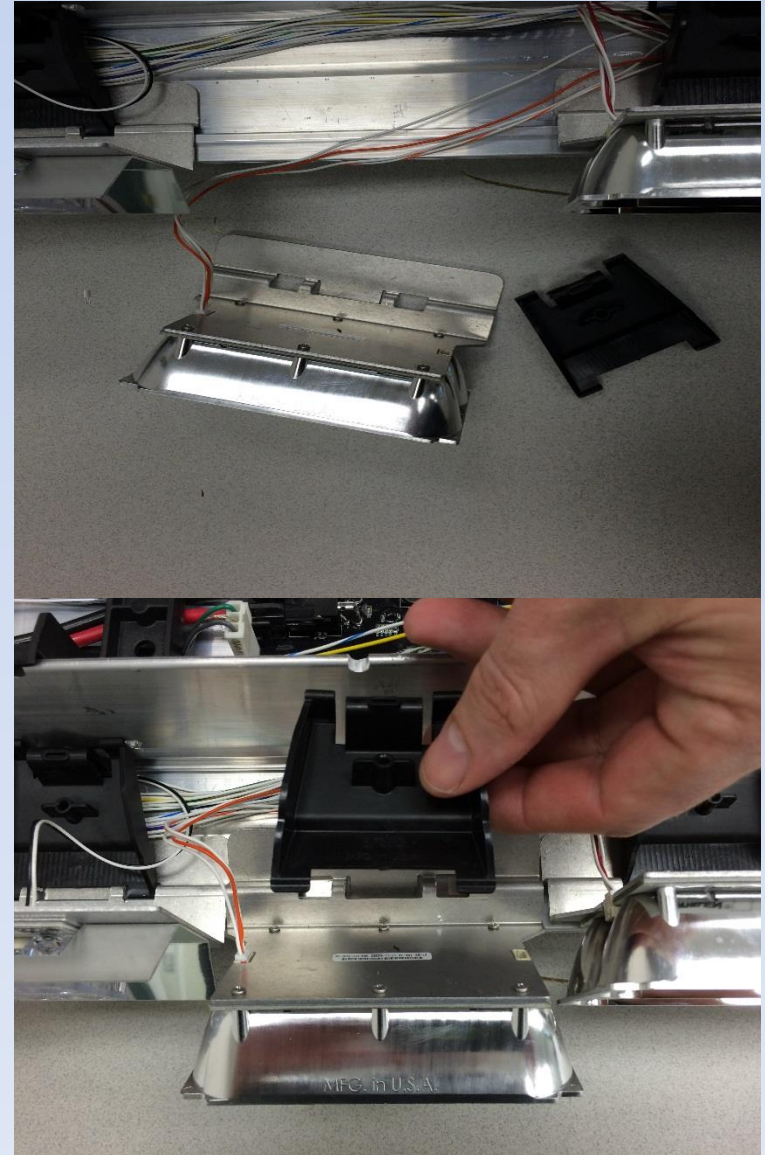
- F4DS* - Short module with 6 LEDs



Freedom® IV Lighthouse Removal

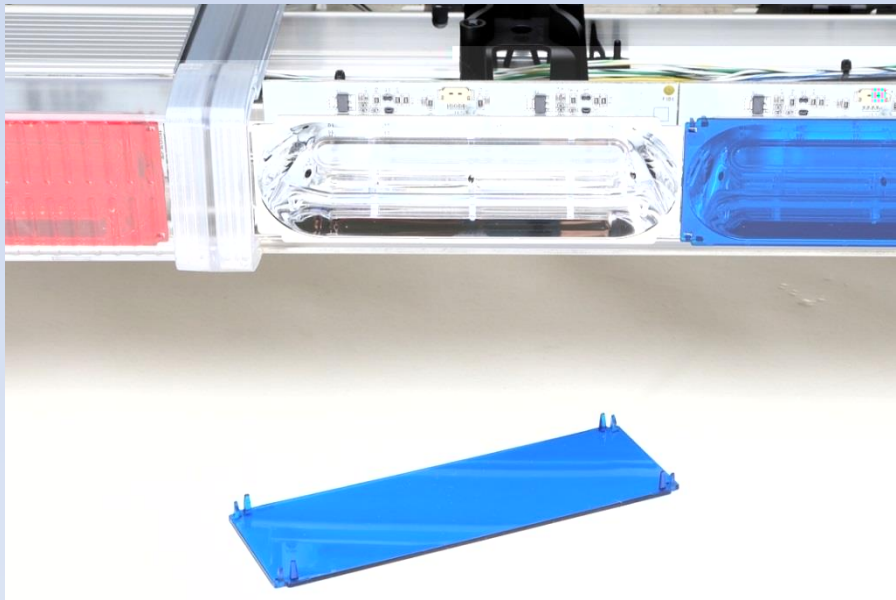


- Use a paint can opener with a hook on the end to lightly pry the tab
- For assembly, just press into place



Freedom® IV Inner Filter Options*

(Liberty II shown for reference)

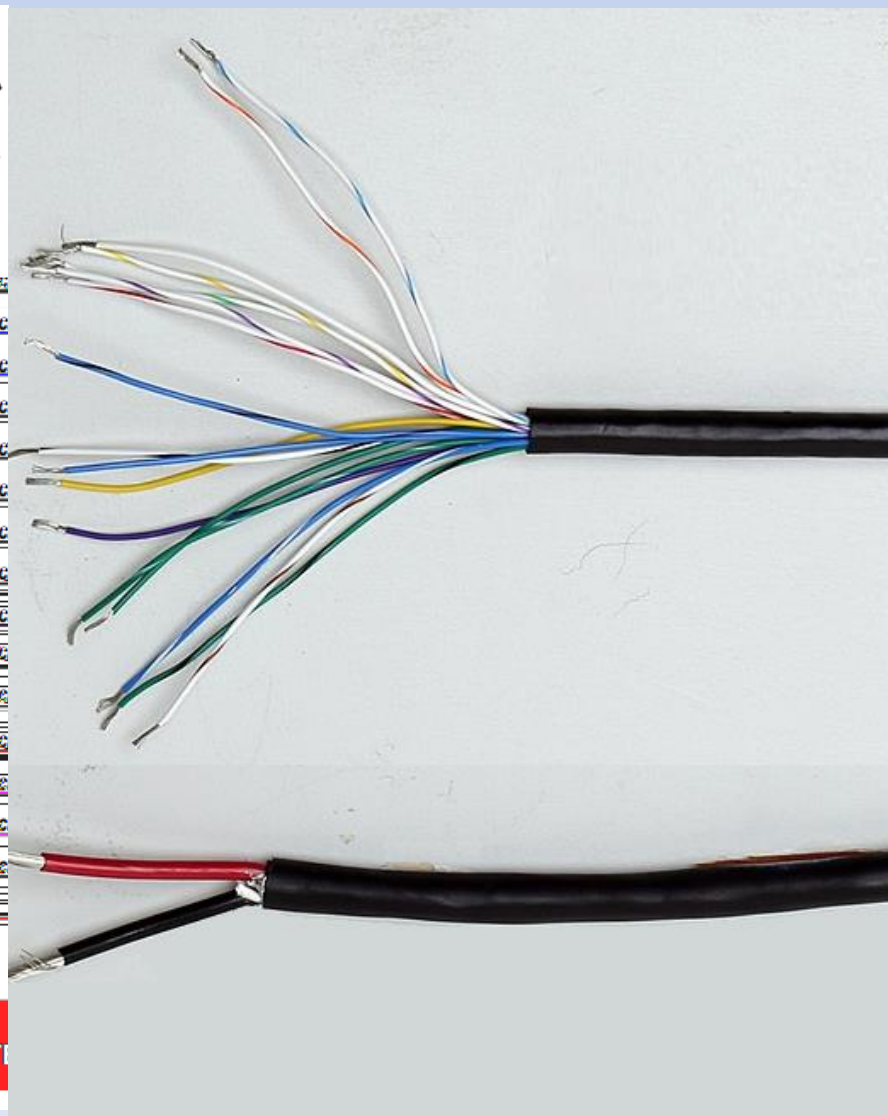
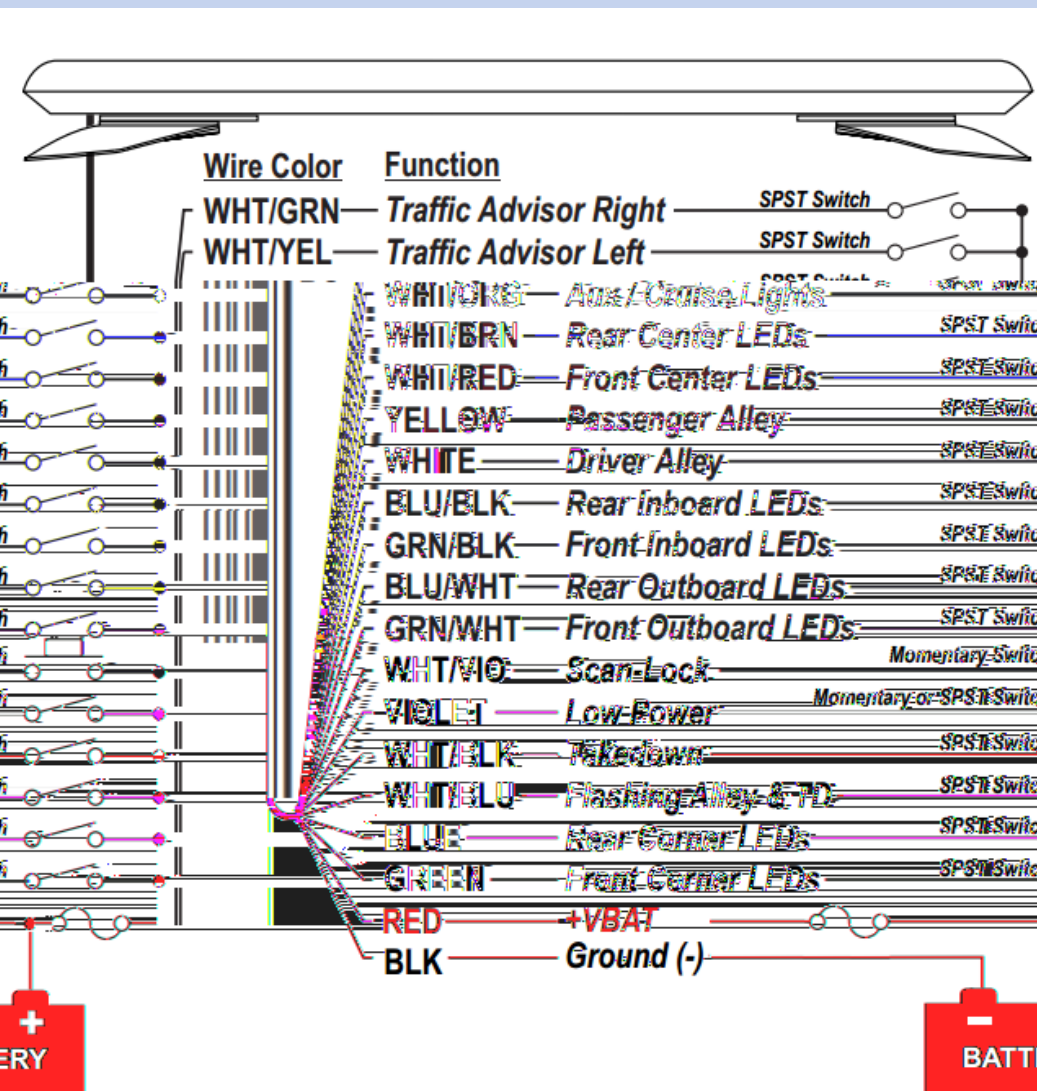


- F4LF* - Long Inboard Filter
- F4SF* - Short Inboard Filter



- F4CF* - Corner Inner Filter

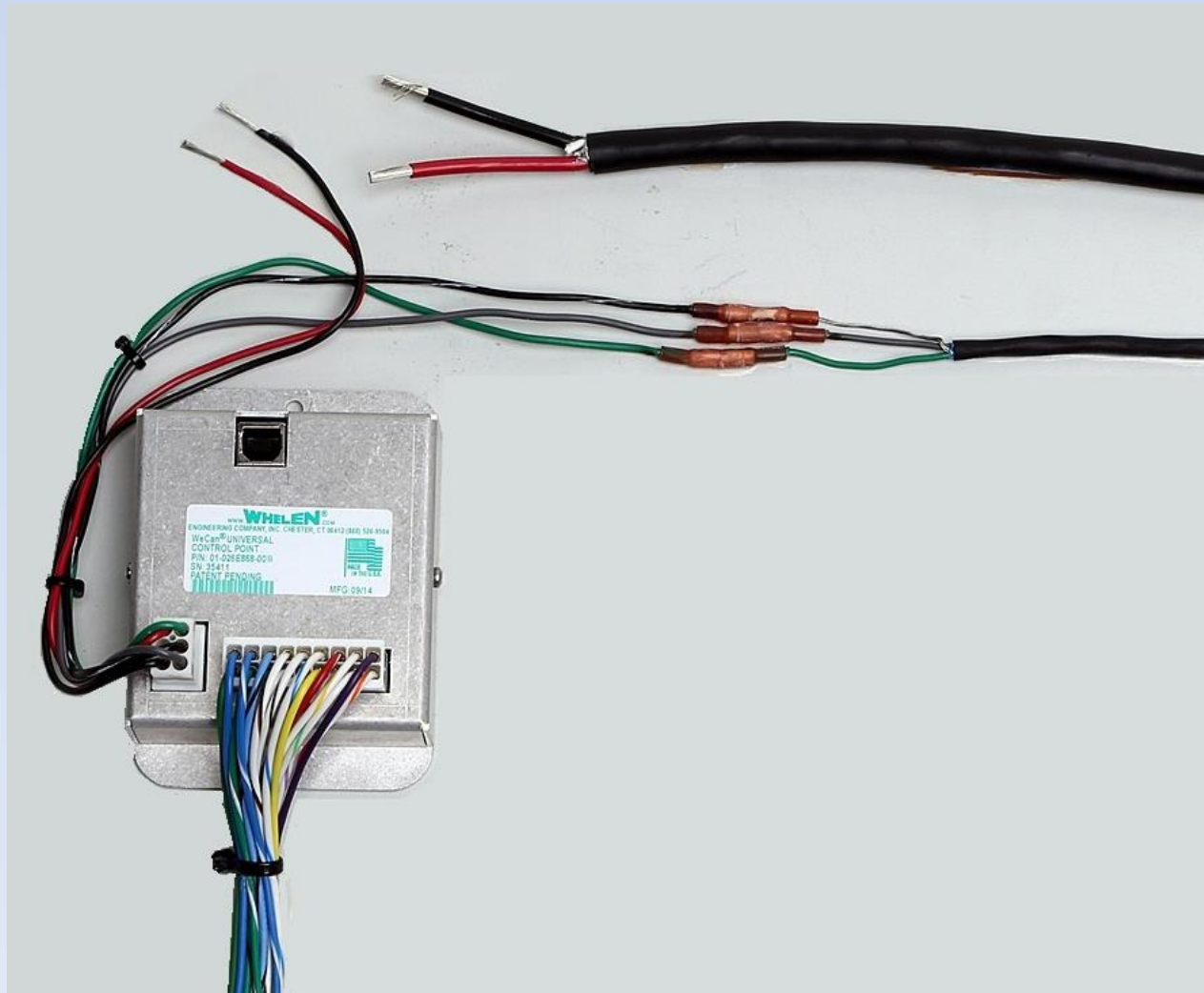
Freedom® IV Low Current Control



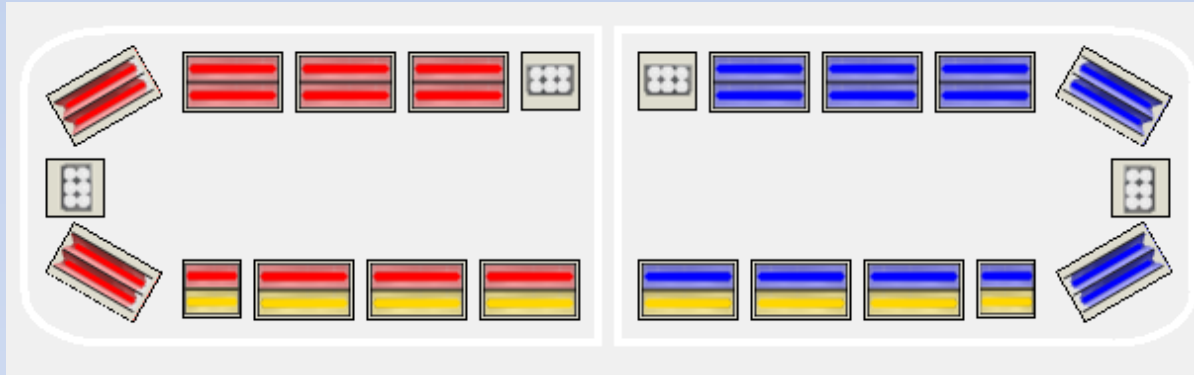
- 17 conductor function select cable
- 2 conductor power cable

WeCan®

- 18 input lines, 12 volt low current control
- Two Wire communications up to the lightbar
- Emulates LC Series out of the box



Freedom[®] IV Inboard Modules

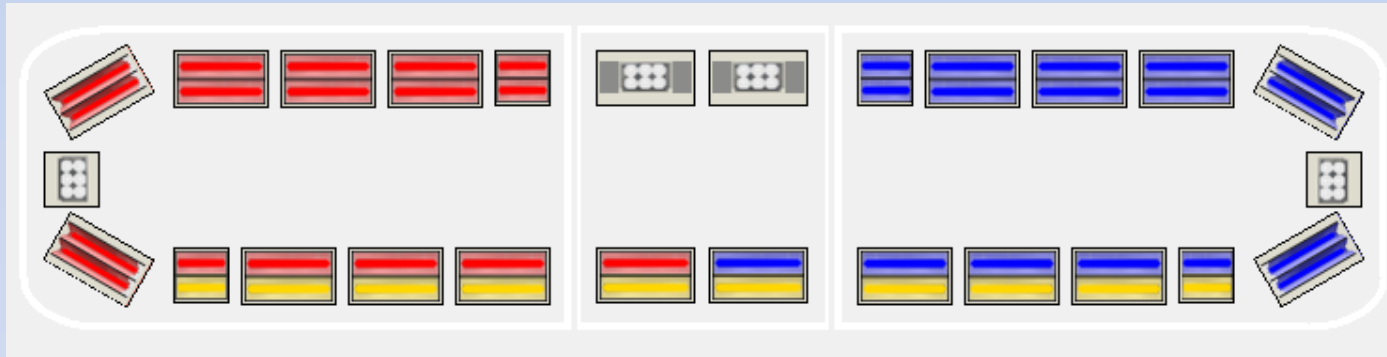


44" models: 6 long and 2 short inboard
Linear-LED[®] modules

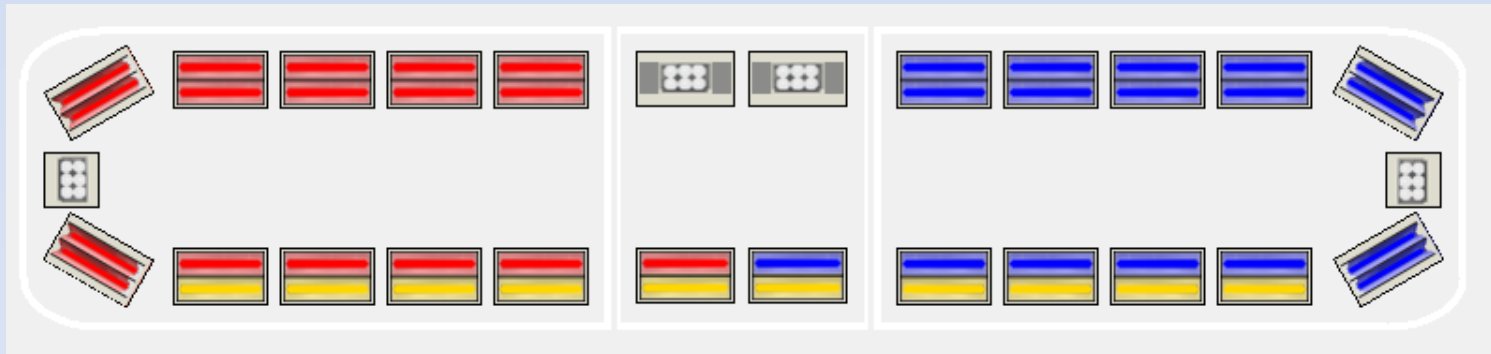


49" models: 8 long Inboard Linear-LED modules

Freedom® IV Inboard Modules

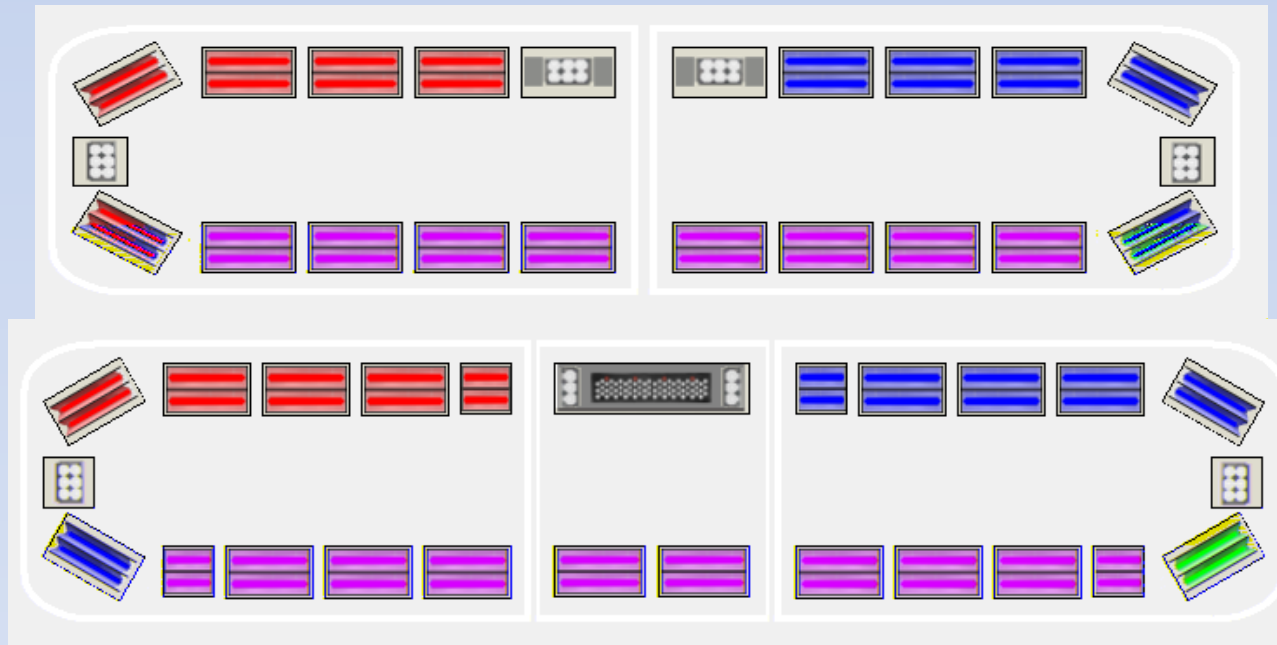


55" models: 8 long and 2 short Inboard Linear-LED® modules



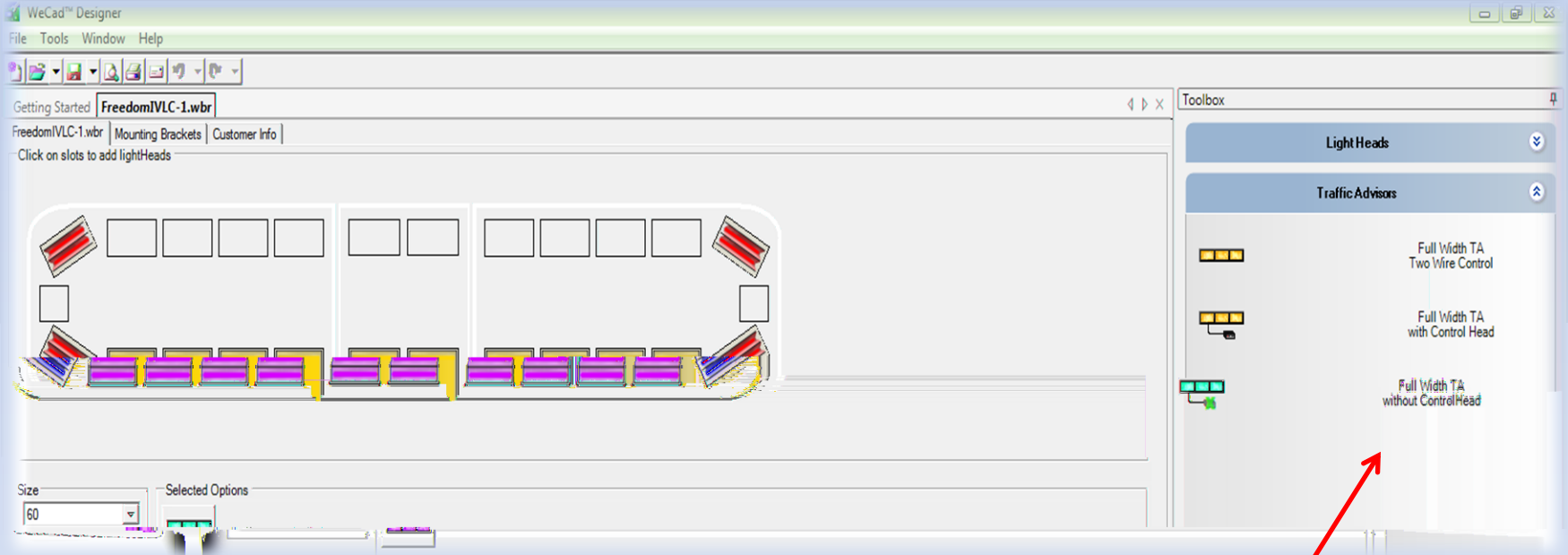
60" models: 10 long inboard Linear-LED modules

Freedom[®] IV LC Control



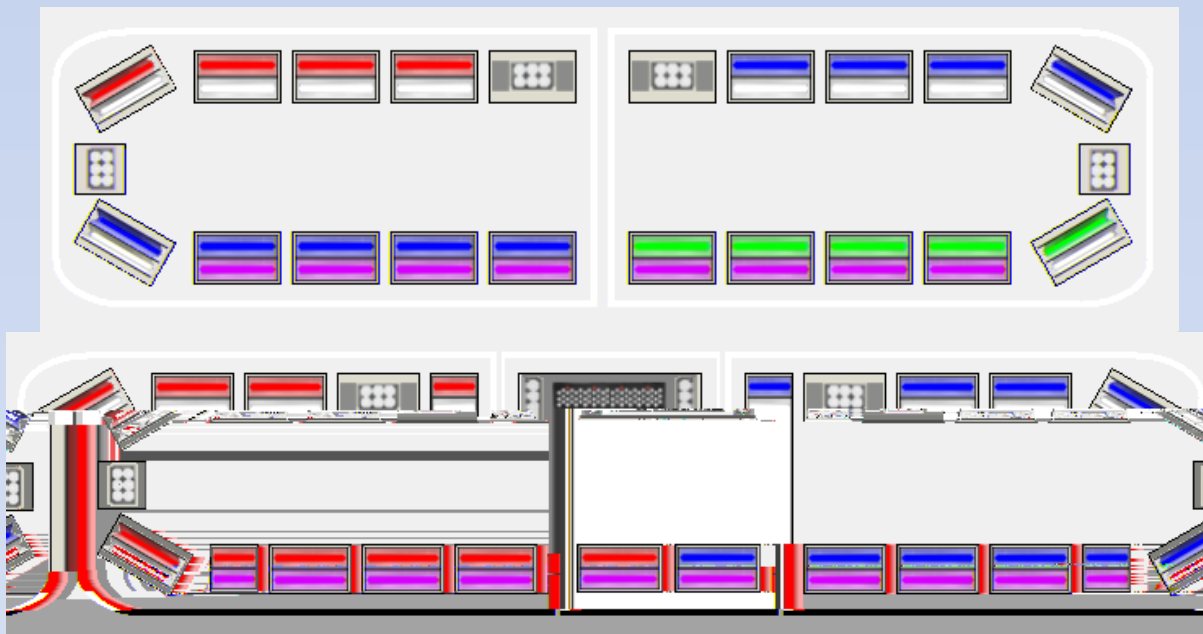
- Low Current 17 conductor switch cable
- 2 conductor 10 awg power and ground cable
- Features single color DYAD™ corner modules only
- Single color Inboard DYAD modules only F4DL*(long) or F4DS*(short)
- Optional Photocell available (F4XPHOTO)

Freedom® IV LC Control



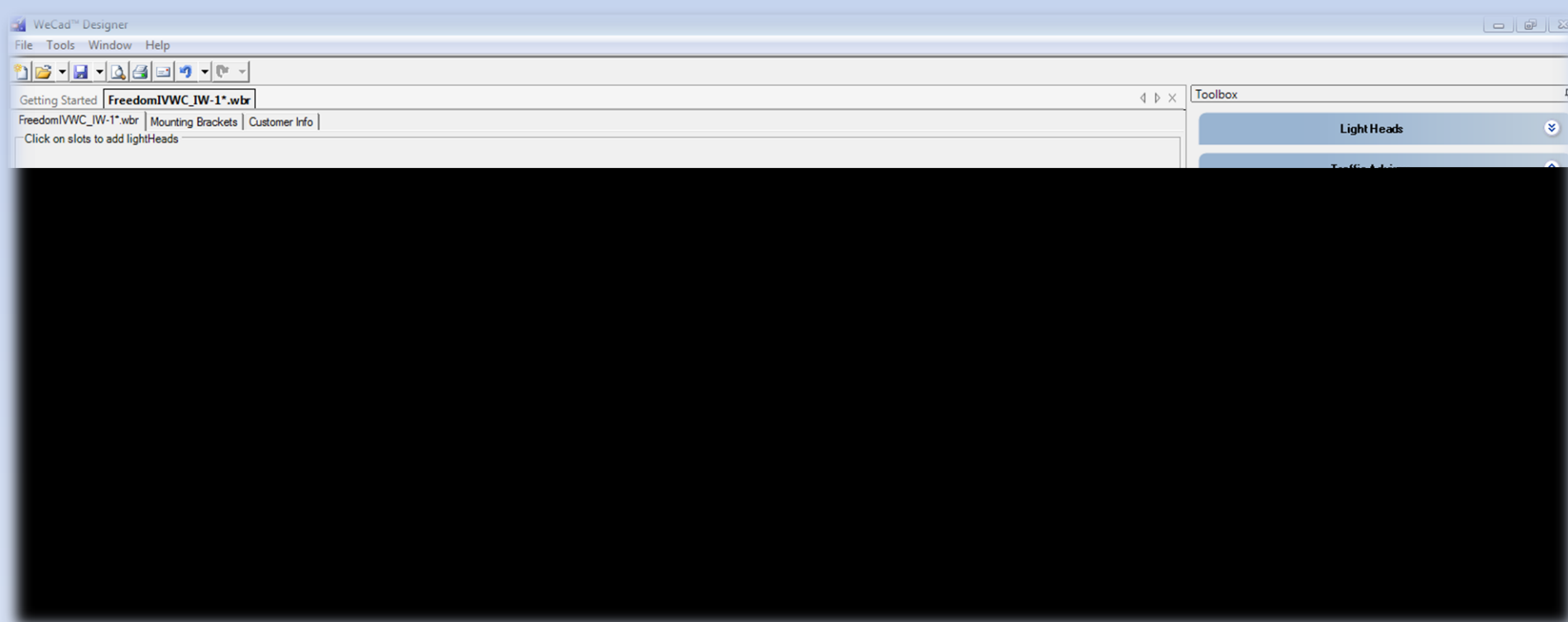
- F4X4 – 44½", F4X8 – 49 ¼", F4X2 – 55", F4X0 – 60", F4X7 – 72", F4X1 – 81", F4X9 - 91¾", F4X5 - 97½"
- Longer lengths are being added to WeCAD in the near future, but will not be included on the initial release
- Single color Traffic Advisor™ only
- Integral Traffic Advisor (two wire control)
- F4XTACNTL 9-wire cable Traffic Advisor w/TACTLD1 control head
- F4XTACBL 9-wire cable Traffic Advisor, no control head

Freedom[®] IV WeCan[®]



- WeCan programmable Control, 8 awg power/ground
- Four high intensity corner DYAD™ modules
- Single or two color DYAD modules
- Optional Photocell

Freedom[®] IV WeCan[®]



- F4W4 - 43 ½" , F4W8 - 49¼", F4W2 - 53", F4W0 – 60", F4W7 – 72", F4W1 – 81", F4W9 - 91¾", F4W5 - 97½"
- Optional single two color DYAD[™] Traffic Advisor[™]

MINI Freedom[®] IV DYAD



- Permanent Mount F4M****P (shown)
- Front Facing F4M*0*0F
- Length 21.5"

MINI Freedom® IV DYAD Options

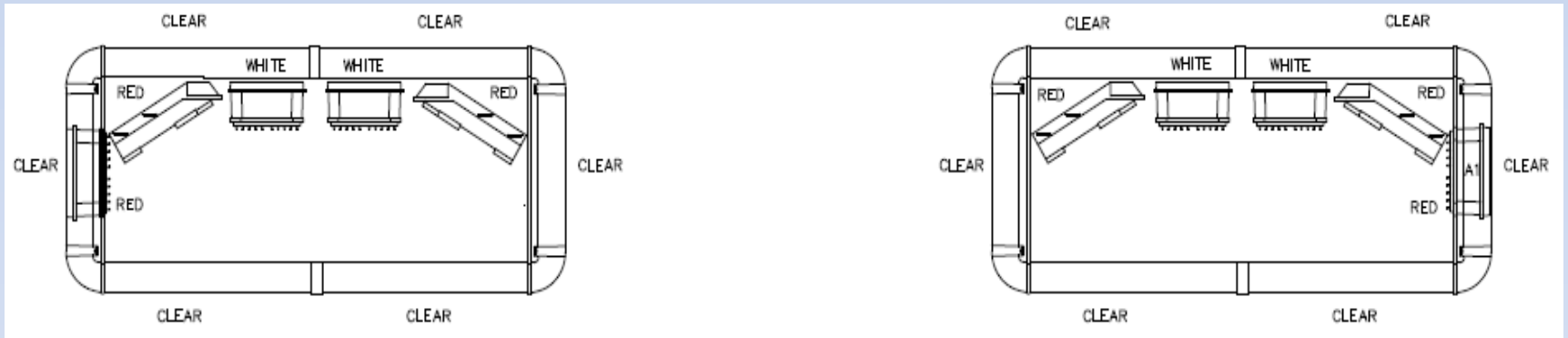
- F4DL* - Long module
- F4MA3 – Two 3 LED Super-LED® Alley lights includes harness
- F4MA6 – Two 6 LED Super-LED Alley lights includes harness
- F4MTL6 – Two 6 LED Super-LED Long Take-Down lights includes harness
- F4MTATL3 – Two 3 LED Super-LED Alley lights and Two 6 LED Super-LED Long Take-Down lights includes harness
- F4MTATL6 – Two 6 LED Super-LED Alley lights and Two 6 LED Super-LED Long Take-Down lights includes harness

Freedom[®] IV NFPA models



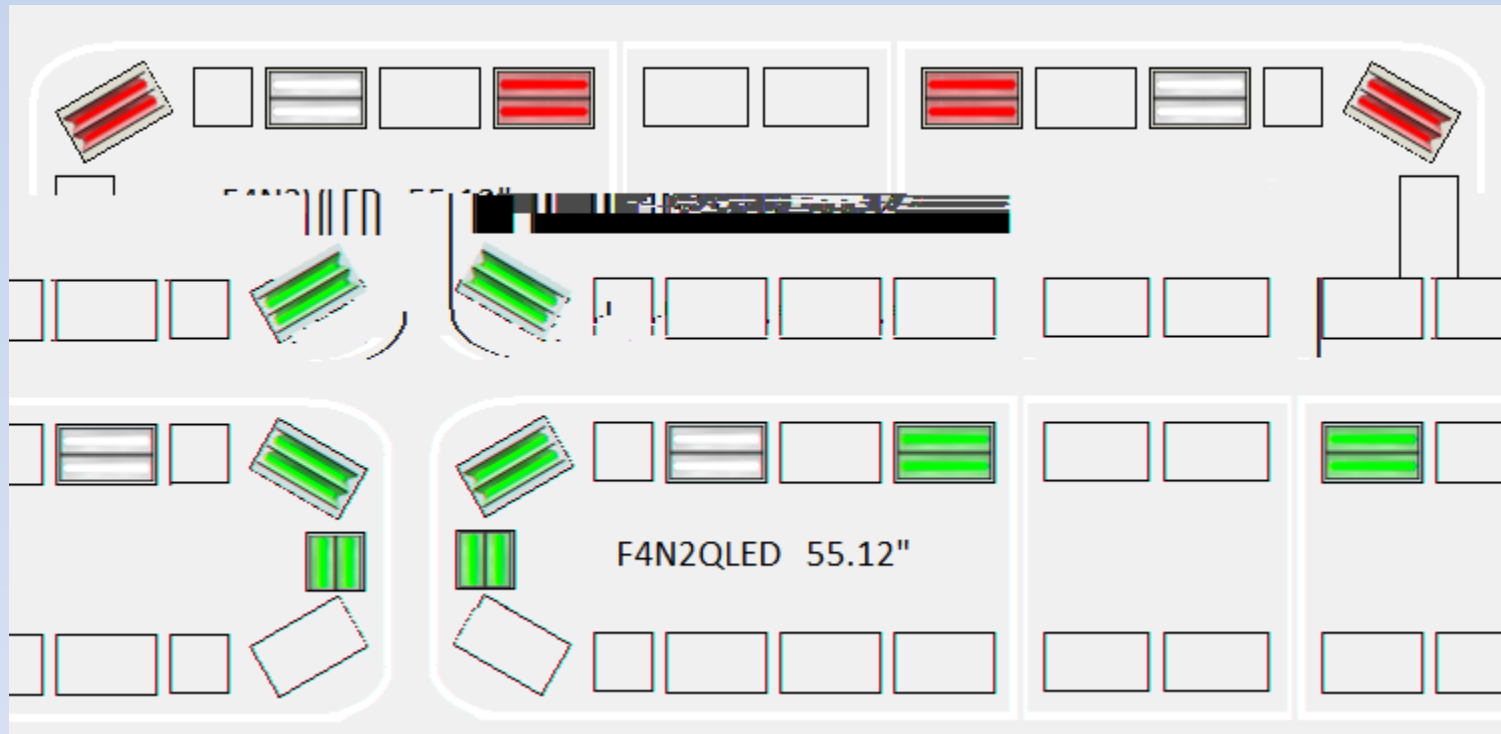
- All models standard with minimum amount of modules required to meet NFPA 1901 2009 Edition
- WeCad allows for additional modules. (shown)
- V-End lamp configuration and Squared end configurations
- LC - Low Current control
- Clear outer lenses standard

MINI NFPA Freedom® IV 21.5"



- Includes minimum lamps required to meet NFPA 1901

NFPA Freedom® IV 55"



- Includes minimum lamps required to meet NFPA 1901
- Customer may specify more lightheads

NFPA Freedom® IV 60"



- Includes minimum lamps required to meet NFPA 1901
- Customer may specify more lightheads

NFPA Freedom® IV 72"



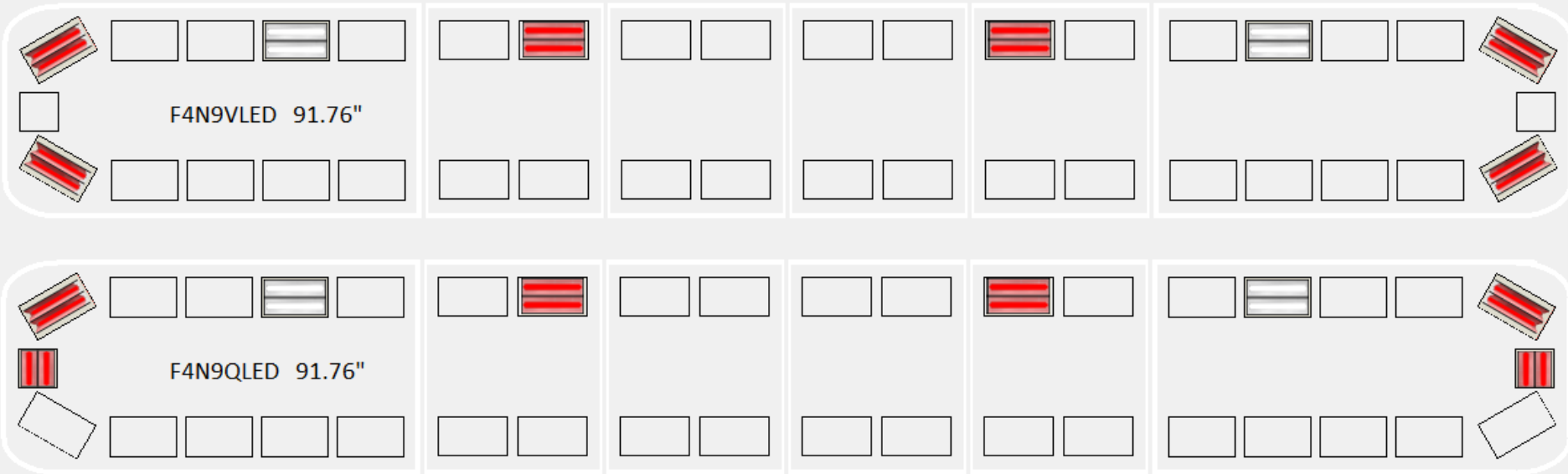
- Includes minimum lamps required to meet NFPA 1901
- Customer may specify more lightheads

NFPA Freedom® IV 81"



- Includes minimum lamps required to meet NFPA 1901
- Customer may specify more lightheads

NFPA Freedom® IV 92"



- Includes minimum lamps required to meet NFPA 1901
- Customer may specify more lightheads