WHELEN®
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CARBIDE™
CENCOM

CenCom Carbide™

Engineered to maintain situational awareness of the officer, Whelen's CenCom Carbide houses numerous innovative technologies that deliver highly effective visual and auditory warning.

Designed for simplistic, hands-free usage, Carbide allows officers to easily adapt with Situation Based Integration. This feature allows for scene specific functions using various vehicle components, such as the horn or brakes. Priorities can now be fully configured and controlled.
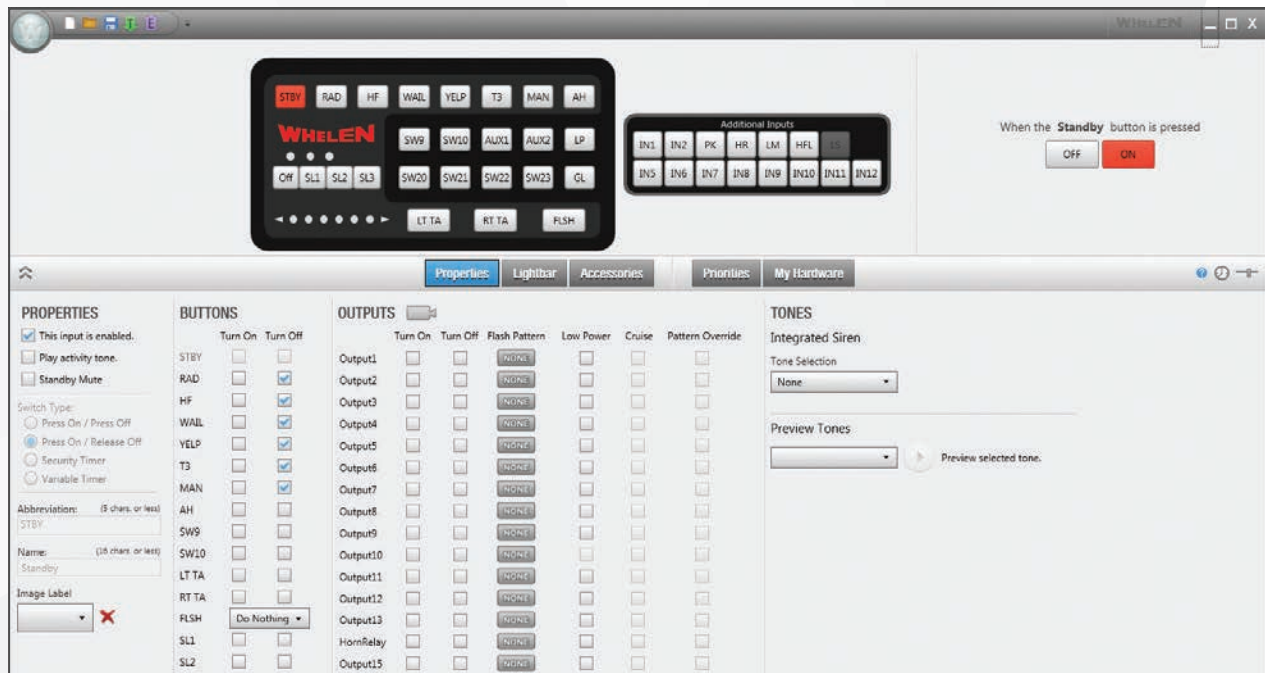
Carbide provides the capability to sync all lights together, including a Traffic Advisor™ or WeCan® Inner Edge® models

Easily reproducible from vehicle to vehicle, Carbide installs effortlessly with little wiring intricacy.

Optional expansion modules and WeCan dual siren amplifier are available to further customize functions.

Program

Carbide makes programming straightforward with a newly designed Windows based software. This intuitive platform makes configuring simple, while a USB 2.0 port transfers data faster than ever before.

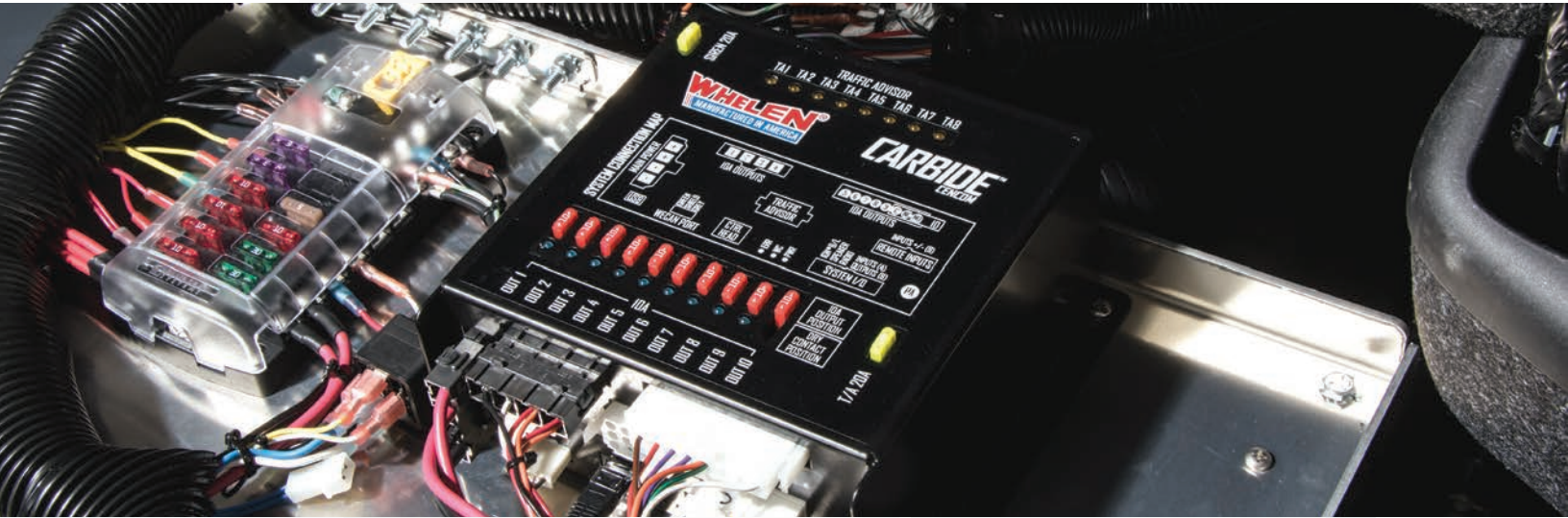*CANport™ OBDII Interface, see page 4*

Design Features

- Control warning lights, siren, and Traffic Advisor™ functions from a single keypad
- Various control heads available
- Newly designed software allows for easy program configuration via USB 2.0
- Fully supports all WeCan® Series products
- 12 positive or negative activated inputs
- Supports up to 2 of the following: front WeCan Inner Edge®, rear WeCan Inner Edge, or optional remote 16 output modules
- Separate backlight control

- 18 fully protected and fused outputs
- Supports one or two 100 watt speakers
- LED indicator lights allow for simple trouble-shooting of outputs and WeCan network
- Easily accessible fuses and connections
- Heavy-duty power and output connectors
- Supports WeCan dual siren amplifier option
- Meets or exceeds all applicable SAE, California Title XIII requirements with various Whelen speakers
- Five year warranty

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Integrated Load Manager

Carbide™ reduces the chance of a drained battery by shutting off outputs as vehicle battery voltage declines.

Integrated Auto-Off Timer

Keep Carbide functioning even if the ignition is turned off.
* *When used with the Integrated Load Manager, this provides a safe way of maintaining critical warning functions even if the keys must be removed from the ignition*

CANCTL6

CANCTL7

CANCTL5

Control Head

Ergonomically designed for situational awareness of the officer, various control heads are compatible with Carbide. Completely configurable by the user, these control heads are designed with features such as: tick marks, raised surfaces, and recessed areas for ease of use, allowing officers to focus on the road.

CANport™ OBDII Interface

The CANport OBDII Interface is a simple plug-in connection to the vehicle. Using the CANport, CAN bus signals are easily applied to automate warning system functions.

- Simple and easy installation
- Eliminates labor costs
- Saves money on wires and connectors
- Helps maintain the integrity of the vehicle

Select from a series of vehicle signals*:

- Headlight
- Low Beams
- High Beams
- Park Lamps
- Left Turn Signal
- Right Turn Signal
- Hazard Lights
- Brake
- Park Brake
- Park
- Reverse
- Neutral

- Drive
- Transmission Range
- Vehicle Speed
- Throttle Position
- Engine RPM
- Engine Running
- Fuel Level
- A/C Clutch
- Key Switch ACC
- Key Switch IGN
- Key Switch Off
- Key Switch Position

- Key Switch RUN
- Any Front Door
- Any Back Door
- Front Driver Door
- Front Passenger Door
- Rear Driver Door
- Rear Passenger Door

*Vehicle signals may vary for each make/model/year, see CenCom Carbide™ software for a complete list.

Situation Based Integration

Carbide™ features improved Situation Based Integration, a technology first introduced in 1993 with Whelen's B-Link™ System.
- Priorities can now be fully configured and controlled
- Carbide controls scene-specific lighting for safety and efficiency using any of the integrated 12 programmable inputs, 18 programmable outputs, and optional expansion modules
    - Turn lights/buttons on or off when the door opens, vehicle transmission is shifted, brakes are pressed, or the sun goes down
    - Automatically turn on flood lighting when take-downs are activated
    - Change warning patterns with siren tones
    - Activate a burst of light when the airhorn is pressed
    - Light up the rear of the vehicle when brakes are pressed
    - Activate the alarm feature to create a disorienting visual and audible display to aid in officer safety

Turn off end warning/alley lights when door opens

CenCom Carbide™

Outputs

18 Outputs:
4 x 20A (steady or flashing)
5 x 10A (steady or flashing)
1 x 10A dry contact relay (steady only)
8 x 1A (steady or flashing)

Inputs

12 Inputs (positive or negative switched)

Siren

200W Siren
Full set of siren tones
Supports new WeCan® dual siren amplifier option

Operation

Conditional operations
Configurable priorities

Expansion Modules

Supports up to two of the following:
Front WeCan Inner Edge®
Rear WeCan Inner Edge
Optional Remote 16 Output Modules

Integrated Features

New heavy-duty crimp style connections
on WeCan port

Configurable Load Manager

Configurable Ignition Delay Timer

Additional Features

Expanded support for Photocell

Full support of SOLO™ WeCan lightbars

Full support of DUO™ and TRIO™ lightbars

Supports new 21 button control head

CANport™ OBDII Interface

9/C Traffic Advisor™ Driver available

5 Year Warranty

Model	Description
CCSRN4	Amplifier control module
CCSRN4A	Same as CCSRN4, except with 8 input expansion module
CCSRNT4	Same as CCSRN4, except with Traffic Advisor module
CCSRNT4A	Same as CCSRN4A, except with Traffic Advisor module
CCSRN5	Amplifier control module with CANport OBDII Interface module
CCSRNT5	Same as CCSRN5, except with Traffic Advisor module
CC5K1	Installation Kit for CCSRN5 Series for 2016-2019 Ford Interceptor Utility, 2020 Ford Interceptor Utility used with Factory Option 61B, 2016-2019 Ford Interceptor Sedan and F-150, 2018 Ford F250/F-350/F-450/F-550, Expedition and Transit, 2017-2018 Ford Fusion and 2016-2017 Dodge
CC5K2	Installation kit for CCSRN5 Series for 2017-2018 Chevy Tahoe and Silverado 1500
CC5K3	Installation Kit for CCSRN5 Series for 2018-2019 Ram 1500 and 2018-2020 Dodge Charger and Durango
CCSRN4DA	WeCan external amplifier for use with CenCom Carbide, for dual amplifier applications
CANEM16	16 Output expansion module

Optional Control Heads

CANCTL5	Includes a hand held combination microphone and controller, 5-position progressive light/sire control, nine push-buttons and microphone extension cable
CANCTL6	Includes 3 section control head and 8 push-buttons, 4-position slide switch with a 7-position rotary knob, manual airhorn plus 3 Traffic Advisor switches and microphone with extension cable
CANCTL7	Includes 3 section control head with 18 push-buttons, 3 position slide switch, plus 3 Traffic Advisor switches and a microphone with extension cable

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