# CenCom UR B<sup>®</sup> **CONTROL SYSTEMS**

**Controlling Your Fleet Has** Never Been Easier

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# CENCOM CORE POWERED BY BY WECANX®

Whelen's powerful CenCom Core control systems enhance first responder safety like no other by providing the greatest configurability, speed, and expansion capabilities available on the market. Built to scale with your needs, our Core systems are highly configurable and offer advanced automation, remote connectivity, and true system synchronization through the industry's smartest and most powerful CAN-based communication system, WeCanX<sup>®</sup>. This proprietary technology combines unrivaled sophistication with lightning-fast speed, expanded peripheral add-ons and full diagnostic support.

СЕΝСОМ



#### WHELEN MANUFACTURED IN AMERICA

**CenCom Core<sup>®</sup> Powered By WeCanX<sup>®</sup>** WHELEN ENGINEERING COMPANY, INC. WARNING: These products may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit whelen.com/regulatory.

### DESIGNED TO FIT YOUR NEEDS



WARNING: These products may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit whelen.com/regulatory. Every aspect of CenCom Core<sup>®</sup> is engineered for performance and designed for vast configuration, allowing for access to every connector and fuse from the top of the box. CenCom Core is built to scale with your needs.

## WECANX.

WeCanX<sup>®</sup> is the smartest and most powerful CAN-based communication system we've ever engineered. Providing true system synchronization, greater speed capabilities, expanded peripheral add-ons, and full support of diagnostics, WeCanX is designed for optimal situational awareness programming.

- Supports any combination of 99 WeCanX devices, including support for multiple Whelen peripherals of the same type on the same vehicle
- All CANport<sup>™</sup> signals are configurable as triggerable Events\*

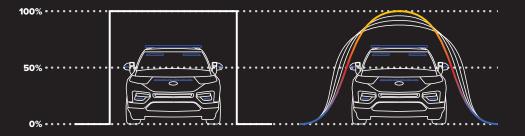
#### \*Our original WeCan<sup>®</sup> only supports 8 CANport signals

### **VEHICLE-TO-VEHICLE SYNC**

A calm scene is a safe scene with V2V sync. Automatically synchronize lights and tones on vehicles within any proximity to aid approaching motorists.



Dynamic Variable Intensity<sup>®</sup> flash patterns are designed to create a calm warning environment and bring an advanced level of safety to nighttime emergency scenes. DVI<sup>®</sup> patterns gradually increase and decrease warning light intensity, which better conveys visual information to approaching motorists at night.



### DIGITAL VOICE MESSAGES

Configure consistent messaging across a fleet with Digital Voice Messages. Messages can be customized for weather alerts, evacuation orders, traffic reports, bilingual messaging and more. Messages are added through the Manage Digital Voice Messages window in the Whelen Command software and can be applied to any input.



### WHELEN COMMAND<sup>®</sup>

At the heart of CenCom Core<sup>®</sup> is Whelen Command, our cutting-edge software designed to streamline the entire programming process. With an advanced user interface, Command quickly and easily provides updates and new releases and can process hundreds of virtual inputs.

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Command features Situation-Based Integration and Events. With Situation-Based Integration, scenespecific functions can be created and automated by utilizing various vehicle components and signals, like automatically turning off a siren when a vehicle arrives on scene. With Events, multiple user-defined rules can be created for specific situations depending on the state of your vehicle, like automatically switching to DVI light patterns when the vehicle is in Park.

### WHELEN CLOUD **PLATFORM**<sup>®</sup>





CenCom Core<sup>®</sup> Powered By WeCanX<sup>®</sup> WHELEN ENGINEERING COMPANY. INC.

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Scan to find and download standard messages including fire warnings, no parking orders, active shooter warnings and more.

The Whelen Cloud Platform is a cloud-based vehicle communication platform that sends and receives data through cellular networks.

Manage vehicle configurations and firmware updates over-the-air, create faster response times with realtime information to pinpoint vehicle locations, and easily organize your fleet and Whelen product information. All of your data is safe and available, wherever you are.





CENCOM CORE.

Created to enhance first responder safety, CenCom Core redefined control systems by providing the greatest configurability, speed, and expansion yet. Built to scale with your needs, Core is highly configurable and offers advanced automation, remote connectivity, and true system synchronization.

- Powered by WeCanX<sup>®</sup>
- Supports any combination of up to 99 WeCanX devices
- Seamlessly integrates with Whelen  $\operatorname{Command}^{\circ}\operatorname{software}$
- Remote firmware updates through USB-C with Whelen Command or over-the-air with Whelen Cloud Platform<sup>®</sup>
- Vehicle-to-Vehicle Sync
- Dynamic Variable Intensity<sup>®</sup> light patterns
- 17 total inputs
- 23 total outputs
- 10-year warranty

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COZE-S

The newest addition to Whelen's industry-leading Core family of control systems, Core-S<sup>°</sup> is a true one-box solution. Its space-saving design allows for installation in tight spaces like in a console or under a dash. And installation has never been easier with connector placement specifically designed for hardto-reach areas. Core-S features a siren, input/output, and control functionality in one compact box along with an integrated control head.

- Powered by WeCanX
- Seamlessly integrates with Whelen Command software
- Remote firmware updates through USB-C with Whelen Command or over-the-air with Whelen Cloud Platform
- Vehicle-to-Vehicle Sync
- Dynamic Variable Intensity light patterns
- 11 total inputs
- 16 total outputs
- 10-year warranty



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Core-R<sup>\*</sup> is a vehicle control system engineered to enhance first responder and motorist safety with complete configurability, advanced automation, and remote connectivity.

- Powered by WeCanX<sup>®</sup>
- Supports any combination of up to 99 WeCanX devices
- Seamlessly integrates with Whelen  $\operatorname{Command}^{\circ}$  software
- Remote firmware updates through USB-C with Whelen Command or over-the-air with Whelen Cloud Platform®
- Vehicle-to-Vehicle Sync
- Dynamic Variable Intensity  $\ddot{}$  light patterns
- 8 total inputs
- Does not have its own outputs, supports STEADY-LOCK through Remote Expansion Module
- 10-year warranty

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- All the benefits and features of Core-R are housed in a durable junction box to protect control system components and wiring from harsh environments and weather typically experienced by DOT vehicles.
- Its modular design makes installation on a municipal vehicle quick and easy with parts designed to be installed in various locations throughout a vehicle.
- Optional modules are available to further enhance flexibility and safety like DVI<sup>™</sup> and V2V Sync

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Core-C<sup>°</sup> is the heart of a sophisticated warning light system for work trucks. Delivering enhanced WeCanX safety features with plug-and-play ease of installation, it combined the intelligence of a WeCanX controller with the functionality of a control head in one compact package.

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- Powered by WeCanX
- Seamlessly integrates with Whelen Command software
- Remote firmware updates through USB-C with Whelen Command
- Vehicle-to-Vehicle Sync
- 1 input, 1 output
- Supports a primary WeCanX warning device
- Supports one Remote Expansion Module to bring DVI and intelligent lighting control to a vehicle's peripheral lighting like Vertex<sup>®</sup>, ION<sup>®</sup>, or Micron<sup>®</sup> lightheads.
- Supports STEADY-LOCK through Remote Expansion Module
- 10-year warranty



**CenCom Core<sup>®</sup> Powered By WeCanX<sup>®</sup>** WHELEN ENGINEERING COMPANY, INC.



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## WeCanX<sup>®</sup> DEVICES

Now you can customize CenCom Core<sup>®</sup> in ways never before possible in a control system.

- Legacy<sup>®</sup>, Liberty<sup>®</sup> II, Freedom<sup>®</sup> IV, Edge<sup>®</sup> 9X, and Justice<sup>®</sup> DUO<sup>™</sup> lightbars
- Inner Edge<sup>®</sup> FST<sup>\*</sup>, RST<sup>\*</sup>, & XLP<sup>\*</sup>
- Tracer<sup>™</sup> WeCanX
- WeCanX 2250
- External Amplifier

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#### LIGHTBARS

Legacy, Liberty II, Freedom IV, Edge 9X, and Justice DUO lightbars now support WeCanX with expanded control of individual lightheads in DUO and TRIO<sup>®</sup> models and in lengths over 60".



#### **INNER EDGE FST, RST, & XLP**

Inner Edge FST, RST, and XLP models now support WeCanX with expanded control of individual lightheads in DUO and TRIO models.

#### **CONTROL POINT**

- Diagnostic output
- Can be selected in WeCad<sup>™</sup> as an option

- External Howler<sup>™</sup> Siren
- Remote 8 or 16-Output Expansion Module
- Core<sup>™</sup> Control Point
- Traffic Advisor<sup>™</sup> Module
- V2V Sync Module
- High Current Remote Expansion Module

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#### TRAFFIC ADVISOR MODULE

- Ground switched for Whelen capability
- 9 conductors
- Uses the current 12-position commercial Mate-N-Lok<sup>™</sup> connector

#### V2V (VEHICLE-TO-VEHICLE) SYNC MODULE

- Synchronize lights and tones on an unlimited number of vehicles within any proximity.
- 10-30 VDC power supply
- Includes diagnostic indicator

#### REMOTE 8 OR 16 OUTPUT EXPANSION MODULE

- 4 programmable logic inputs
- Cruise mode



- Integrate scene lights into WeCanX system control. Outputs can flash, dim, or gradually increase or decrease the light intensity of scene lights, further calming a scene.
- Operates high-current lightheads such as scene lights (e.g., eight 75-Watt, four 150-Watt Pioneer<sup>™</sup> lightheads, etc.)
- 4 outputs at 15-Amps each

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- Can be operated independently of other sirens

- Low-intensity mode



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#### **EXTERNAL AMPLIFIER**

- Can be operated independently of other sirens
- Tones can be synchronous or asynchronous depending on the Control System used
- Public address
- Digital voice messages
- Variable intensity tones

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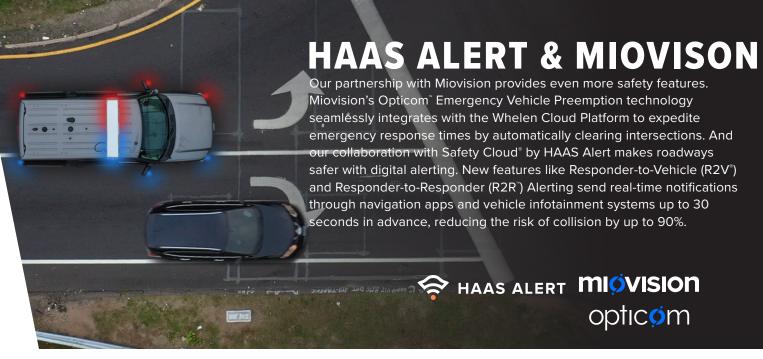
• Howler now plays its own tone rather than sensing and following an existing tone • Tones can be synchronous or asynchronous depending on the Control System used



### **FIRMWARE UPDATES**

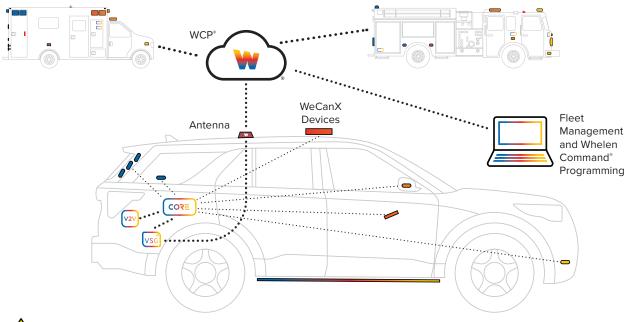
CenCom Core<sup>®</sup> supports remote firmware updates through USB-C with Whelen Command<sup>®</sup> or over-the-air with the Whelen Cloud Platform<sup>®</sup>. All WeCanX<sup>®</sup> devices support encrypted firmware updates.





### **ALL WHELEN DEVICES**, **ONE SEAMLESS EXPERIENCE**

When you use WeCanX<sup>®</sup> products, CenCom Core<sup>®</sup>, or the Whelen Cloud Platform<sup>®</sup>, you're able to do incredible things to keep everyone safe. When you use them together, you can fully integrate and connect your Whelen products.



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### **HIGH-SPEED** CONNECTIONS

Core<sup>™</sup> has extremely high-performance I/O. It features one ethernet connection, one WeCanX connection, two CANport<sup>®</sup> OBDII interfaces, o USB-A port, and one USB-C port. With a variety of interfaces, Core is ready for a variety of configurations.

CenCom Core<sup>®</sup> Powered By WeCanX<sup>®</sup> WHELEN ENGINEERING COMPANY, INC.

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### MODELS

### WECANX<sup>®</sup> CONTROL SYSTEMS

C399	Amplifier Control Module, Flashing Outputs, Includes 3 CANports, and Controls up to 99 Devices/Remote Modules, Control Heads Purchased Separately
C399R	Control Module, Includes 8 Digital Inputs, 3 CANports and Controls up to 99 Device/Remote Modules, Control Head and Other Optional Modules Purchased Separately. 10-30 VDC
C399S	200 Watt Amplifier Control Module, Flashing Outputs, Includes 3 CANports and Controls Up to 99 Devices/Remote Modules, Control Head and Other Modules Purchased Separately. 12 VDC
C399SH	100 Watt Amplifier Control Module with 100 Watt Howler <sup>™</sup> , Flashing Outputs, Includes 3 CANports and Controls Up to 99 Devices/Remote Modules, Control Head and Other Modules Purchased Separately. Single Howler Mounting Bracket purchased Separately, 12 VDC
C399S6	Single Unit 200 Watt Siren with Integrated 3 Section Control Head and 8 Push-Buttons, 4-Position Slide Switch with a 7-Position Rotary Knob. Manual, Airhorn Plus 3 Traffic Advisor <sup>™</sup> Switches and Microphone with Extension Cable
C399S6H	Single Unit 100 Watt Siren and 100 Watt Howler with Integrated 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, Single Howler Mounting Bracket purchased Separately, 12VDC
C399S7	Single Unit 200 Watt Siren with Integrated 3 Section Control Head and 21 Push-Buttons, 4-Position Slide Switch, Microphone with Extension Cable
C399S7H	Single Unit 100 Watt Siren and 100 Watt Howler with Integrated 3 Section Control Head and 21 Push-Buttons, 4-Position Slide Switch, Microphone with Extension Cable, Single Howler Mounting Bracket purchased Separately, 12VDC
CCP9	Core-C <sup>™</sup> - Core <sup>™</sup> Control Point and Switch Combination, 4-Position Slide Switch and 6 Push Buttons. One 5 amp output for auxiliary lighting. LED TA Indicator, 10-30 VDC and V2V Sync Capable
ССРКТ	Core Control Point for use with WeCanX Devices when NOT using CenCom Core® (For use when not Purchasing a Lightbar)
C399RD1	Core-R <sup>™</sup> DOT - Control Module, Includes 8 Digital Inputs, 1 WeCanX Port and Controls up to 99 Device/Remote Modules, and One CEM16 Module Mounted in a Single Box, Control Head and Other Optional Modules Purchased Separately. 12 VDC
C399RD2	Core-R <sup>™</sup> DOT - Control Module, Includes 8 Digital Inputs, 1 WeCanX Port and Controls up to 99 Device/Remote Modules, and Two CEM16 Modules Mounted in a Single Box, Control Head and Other Optional Modules Purchased Separately. 12 VDC

### WECANX CONTROL HEADS

CCTL5	Includes Handheld Combination Microphone and Controller, 5-Position Progressive Light/Siren Control, 9 Push-Buttons and a Microphone Extension Cable
CCTL6	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
CCTL7	Includes 3 Section Control Head and 21 Push-Buttons, 4-Position Slide Switch, Microphone with Extension Cable
CCTL8	Includes 6 Push-Buttons and a 4-Position Slide Switch, Includes Microphone
CCTL8LM	Includes 6 Push-Buttons and a 4-Position Slide Switch (Microphone Not Included)
CCTL9	Includes 2 Section Control Head and 6 Push-Buttons with a 7-Position Rotary Knob, Microphone and Microphone Extension Cable
CCTL9LM	Includes 2 Section Control Head and 6 Push-Buttons with a 7-Position Rotary Knob, (No Microphone and Microphone Extension Cable)
CCTL10	Includes 3 Section Control Head and 21 Push-Buttons, 1 Master Push-Button, Microphone with Extension Cable
CCTLHARN	CenCom Core Control Head Harness Kit, for use with any Non-Primary Control Head exluding the CCTL5, Control Heads Purchased Separately

### **OBDII CANPORT<sup>®</sup> INSTALLATION KITS FOR CORE<sup>®</sup>**

C399K1	OBDII CANport <sup>™</sup> Installation Kit for C399 for 2016-201 Option 61B, 2016-2020 Ford F-150, 2018-2022 Ford, F 2019 Ford Fusion (All Models), 2020 Ford Fusion Hybr
C399K2	OBDII CANport Installation Kit for C399 for Chevy, 201 Style), 2017-2019 Silverado 2500/3500, 2019-2021 Co C399S)
C399K3	OBDII CANport Installation Kit for C399 for 2018-2020 2022 Dodge Charger and 2018-2022 Dodge Durango
C399K4	2020-2021 Ford Interceptor Utility Gateway Installation Core-R and C399S)
C399K5	2020-2021 Ford Expedition, 2020-2022 F-250/F-350/F C399 (Not for use with Core-R and C399S)
C399K6	2021-2022 Chevy Tahoe and 2021-2022 Suburban Ins
C399K7	2021 Ford F-150, 2022 Ford F-150 Lightning, 2020-20 2022 Ford Mustang Mach-E Installation Kit for C399 (N
C399K8	2021-2022 Tesla Model Y Installation Kit (Not for use w
С399К9	2022 Chevy Silverado PPV/LTD, 2022 Chevy Colorado

### **OBDII CANPORT INSTALLATION KITS FOR CORE-R<sup>®</sup> AND CORE-S<sup>®</sup>**

C399RK1	OBDII CANport Installation Kit for C399R and C399S used with Factory Option 61B, 2016-2020 Ford F-150, 150/250/350, 2017-2019 Ford Fusion (All Models), 2020
C399RK2	OBDII CANport Installation Kit for C399R Only, for Chu (Body Style), 2017-2019 Silverado 2500/3500, 2019-2
C399RK3	OBDII CANport Installation Kit for C399R and C399S 2500/3500, 2018-2022 Dodge Charger and 2018-2022
C399RK4	2020 Ford Interceptor Utility Gateway Installation Kit for
C399RK5	2020-2021 Ford Expedition, 2020-2022 F-250/F-350/F C399R and C399S Only
C399RK6	2021-2022 Chevy Tahoe and 2021-2022 Suburban Ins
C399RK7	2021 Ford F-150, 2022, Ford F-150 Lightning, 2020-20 2022 Ford Mustang Mach-E Installation Kit for C399R
C399RK8	2021-2022 Tesla Model Y Installation Kit for C399R an
C399RK9	2022 Chevy Silverado PPV/LTD, 2022 Chevy Colorado
*Core-S utilizes the	Core-R OBD2 Cable. Please make sure that you use the C

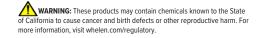
C399RK\* when specifying Core-S. The C399K\* will not work as it uses a different connector.

### SYSTEM EXPANSIONS

CEM8	8 Output, 4 Input WeCanX <sup>®</sup> Expansion Module
CEM16	16 Output, 4 Input WeCanX Expansion Module
CEM4HC	WeCanX High Current Remote Expansion Module, 4-
СТА	WeCanX Traffic Advisor <sup>™</sup> Remote Module, Traffic Advis
CEXAMP	WeCanX External Amplifier
CV2V	Vehicle To Vehicle Module, Includes Internal Antenna



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19 Ford Interceptor Utility, 2020-2022 Ford Interceptor Utility used with Factory , F-250/350 2018-2019 Ford, F-450/550, Expedition and Transit 150/250/350, 2017orid and 2016-2017 Dodge Charger (Not for use with Core-R<sup>™</sup> and C399S)

017-2020 Tahoe, 2017-2018 Silverado 1500, 2019-2021 Silverado 1500 (Body Colorado 1500, 2019 Impala, 2018-2020 Suburban (Not for use with Core-R and

20 Ram Classic 1500, 2019-2020 Ram 1500, 2021-2022 Ram 2500/3500, 2018-(Not for use with Core-R and C399S)

on Kit for C399, for use WITHOUT Ford 61B Factory Option (Not for use with

/F-450/F550/F-600 Super Duty and 2020-2021 Transit Gateway Installation Kit for

stallation Kit for C399 (Not for use with Core-R and C399S)

2022 Ford Interceptor Utility, 2022 Ford Escape, 2022 Ford Expedition and 2021-(Not for use with Core-R and C399S)

with Core-R and C399S)

do Installation Kit (Not for use with Core-R and C399S)

Only, for 2016-2019 Ford Interceptor Utility, 2020-2022 Ford Interceptor Utility , 2018-2022 Ford F-250/350, 2018-2019 450/550, Expedition and Transit 020 Ford Fusion Hybrid and 2016-2017 Dodge Charger

hevy, 2017-2020 Tahoe, 2017-2018 Silverado 1500, 2019-2022 Silverado 1500 2021 Colorado 1500, 2019 Impala, 2018-2020 Suburban

Only, for 2018-2020 Ram Classic 1500, 2019-2020 Ram 1500, 2021-2022 ,Ram 22 Dodge Durango

for C399R and C399S Only, for use WITHOUT Ford 61B Factory Option

/F-450/F550/F-600 Super Duty and 2020-2021 Transit Gateway Installation Kit for

nstallation Kit, for C399R and C399S Only

2022 Ford Interceptor Utility, 2022 Ford Escape, 2022 Ford Expedition and 2021-R and C399S Only

and C399S Only

do Installation Kit for C399R and C399S Only

-15 Amp Output

isor Purchased Separately



## **CORE<sup>™</sup> TECHNICAL SPECS**



DIMENSIONS	7.26" H x 10.07" W x 2.35" D	3.66" H x 6.93" W x 6.51" D	5.76" H x 5.46" W x 1.1" D (DOT: 3" H x 8.53" W x 13" D)	4.4" H x 3.4" W x 1.18" D		
SOFTWARE						
HARDWARE SUPPORT	Up to 99 WeCanX <sup>®</sup> devices			WeCanX Legacy <sup>®</sup> , Liberty <sup>™</sup> II, and Freedom <sup>®</sup> IV lightbars. Inner Edge <sup>®</sup> FST <sup>™</sup> , RST <sup>™</sup> , and XLP. Remote 8 or 16 Output Expansion Module V2V Sync Module		
INPUTS	12 logic inputs 4 analog inputs 1 ignition power-up input 17 total inputs	6 digital inputs 4 analog inputs 1 ignition power-up input 11 total inputs	3 digital 4 analog 1 ignition power-up input 8 total inputs	1 ignition power-up input		
OUTPUTS	2 15A outputs 4 10A outputs 16 2A outputs 1 dry contact relay 23 total outputs Flashing outputs Every output across the system can be synchronized	2 15A outputs 2 10A outputs 12 2A outputs 1 dry contact relay 17 total outputs Flashing outputs Every output across the system can be synchronized		1 5A output		
CONNECTIONS	1 Ethernet connection 1 WeCanX connection CANport <sup>™</sup> 1 USB-A host 1 USB-C Supports up to 99 remote modules	1 Ethernet connection 1 WeCanX connection CANport 1 USB-C Supports up to 99 remote modules	1 Ethernet connection 1 WeCanX connection CANport 1 USB-C Supports up to 99 remote modules	1 WeCanX Connection 1 USB-C		
SENSORS	Battery voltage sensor					
DVI <sup>™</sup> PATTERNS & TONES	Gradually increase or decrease the output intensity within a flash pattern or tone.			Gradually increase or decrease the output intensity within a flash pattern		
TONE SYNC	Sync amplifiers and speakers together Sync tones with lights (Patent-Pending)	N/A	Sync amplifiers and speakers together Sync tones with lights (Patent-Pending)	N/A		
WeCanX CONTROL HEADS	CCTL5, CCTL6, CCTL7, CCTL8, CCTL9, CCTL10	Integrated control head options (CCTL6, CCTL7) Remote control head options (CCTL5, CCTL6, CCTL7, CCTL8, CCTL9, CCTL10)	CCTL5, CCTL6, CCTL7, CCTL8, CCTL9, CCTL10	N/A		
DIAGNOSTICS	Has diagnostic indicator					
CERTIFICATIONS	Meets all applicable SAE and California Title XIII requirements with various Whelen speakers			N/A		
WARRANTY	Ten-year warranty					

### **WeCanX**<sup>®</sup> CONTROL HEADS

Ergonomically designed for situational awareness, WeCanX control heads are completely configurable. Models support flashing indicator LEDs and can also run system diagnostics. The new passthrough WeCanX connection on the back of the control heads contributes to less wiring and an easier install.





CCTL6

- 4-position slide switch 13 push-buttons • 7-position rotary knob



• Handheld 5-position

• Microphone extension cable

• 9 push-buttons

CCTL5

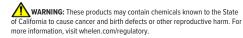


CCTL10



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- 4-position slide switch • 6 push-buttons

22 push-buttons



### CCTL7

- 4-position slide switch
- 21 push-buttons



#### CCTL9

- 6 push-buttons and 7-position rotary switch
- Microphone plug



### CCTL11

- 13 push-buttons
- Microphone with Extension Cable



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# CenCom CORE® CONTROL SYSTEMS

A comprehensive guide to Whelen's control systems







Whelen Engineering Company (860) 526-9504 www.whelen.com



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Preferred Warning Lights of WHRA



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