

OpsVantage (for RAM DT)

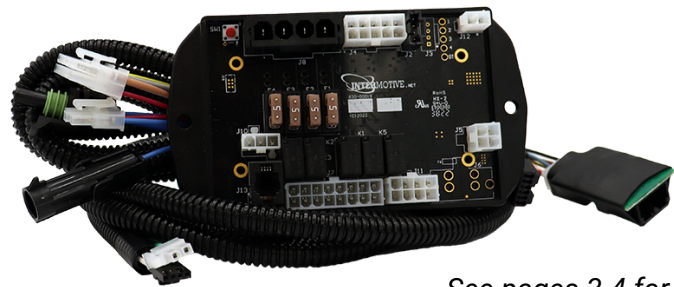
Officer Protection with Custom CAN Utilization



Upfitter Interface Module® + Features

- Provides CAN vehicle data access in order to activate and control equipment
- Acquires CAN data passively to eliminate unnecessary network communication
- Easily programmable using our Graphical User Interface with AND/OR logic
- Up to eleven digital outputs can be programmed as desired:
 - Momentary (e.g., air horn siren)
 - Latching (e.g., emergency light)
 - Time-hold (e.g., weapons lock)
 - Time-delay (e.g., delayed siren)
 - Flashing (e.g., lights on when door opens)
 - Timeout (e.g., turns off cargo lamp after 30 minutes)
- Multiple inputs can control a single output
- Includes horn mute, radio mute and panic mute (silent alarm)

- Includes **IdleLock™ with AutoSense™**:
 - Theft prevention system for idling vehicles
 - Automatically activates when the officer exits with the OEM fob or the doors are left open; auto-deactivates when the fob returns
 - If the vehicle is shifted out Park without the fob detected, IdleLock will shut the engine off and engage the Park Brake
 - All lights, equipment and HVAC are still fully functional while system is active
 - System disables access to auxiliary equipment/weapons rack or provides lock delay function via an output



See pages 3-4 for a list of CAN data available for configuration.

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Police Interface Module (PIM)

- Supports multiple InterMotive features on one module
- Designed specifically for law enforcement vehicles



PIM A* Features

Intelligent Switch Mode

- Custom reprogramming of steering wheel auxiliary buttons
- Enables quick activation of lights, sirens, spotlights, push-to-talk radio and installed InterMotive features
- Increases functionality and efficiency

Officer Protection Package

- Increases an officer's situational awareness by detecting movement behind the vehicle
- Activates the vehicle's rear sensor and camera to enhance the officer's range of vision
- Provides warnings cues, locks doors, flashes lights and more

**PIM A is not a standalone product; it must be combined with PIM B to activate the Officer Protection Package*

PIM B Features

Twilight Mode

- Deactivates interior lights and chimes, and mutes the horn
- Turns off the center stack screen
- Steering wheel activated

Wig-wag Lights

- Activates rapid alternating lights for front low beams and rear stop/turn lamps
- Highly visible function for catching attention

Pitch Black (Optional)

- Deactivates exterior lights, rear and brake
- Automatically disengages for safety when vehicle speed reaches between 5-20 mph (configurable)
- Perfect for covert surveillance and operations



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CAN Data Availability

DATA	ACTIVE DATA	CONFIGURABLE OUTPUT	J1939 NETWORK
ABS Active		X	X
Acceleration Rate		X	
Air Conditioner Button Active		X	
Air Conditioner Compressor		X	X
Airbag Light		X	
Alarm, Panic		X	
Battery Percentage		X	
Battery Voltage		X	
Beams, High		X	X
Beams, Low		X	X
Brake, Parking		X	X
Brake, Service		X	X
Door Lock Status		X	X
Door Status, Driver		X	X
Door Status, Passenger		X	X
Door Status, Rear Driver		X	X
Door Status, Rear Passenger		X	X
Door, Any		X	X
Door, Rear/Tailgate		X	X
Engine Load	X		X
Engine Running		X	X
Fob Present		X	
Fuel Level		X	X
Horn Active	X	X	X
Horn Mute Active		X	
Idle Lock Active		X	
Key Position		X	X
Lamp, Malfunction Indicator		X	X
Lamp, Park		X	X
Lamps, Daytime Running		X	X
Light, Any		X	
Light, Cargo		X	
Lights, Hazard		X	X
Lights, Hazard Latched		X	
Mass Air Flow	X		X

(continued)

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CAN Data Availability (continued)



DATA	ACTIVE DATA	CONFIGURABLE OUTPUT	J1939 NETWORK
Odometer			X
PCM Emission DTCs count	X		X
Pedal, Accelerator Position		X	X
Pedal, Brake Position %		X	
Pressure, Barometric	X		X
Pressure, Intake Air	X		X
Radio Muted		X	
Seat Belt, Driver		X	
Seat Belt, Passenger		X	
Sensor, Daylight		X	
Speed, Engine		X	X
Speed, Vehicle		X	X
Steering Wheel Angle		X	
Switch, Cruise Control		X	
Switch, Cruise Control -		X	
Switch, Cruise Control +		X	
Switch, Cruise Control Cancel		X	
Switch, Cruise Control Resume		X	
Switch, Dimmer		X	
Switch, Horn	X	X	X
Switch, HVAC Fan Speed		X	
Temperature, Ambient Air		X	X
Temperature, Engine Coolant	X	X	X
Temperature, Engine Oil	X		X
Temperature, Intake Air	X		X
Temperature, Transmission Oil		X	X
Throttle Position	X		X
Transmission Range		X	X
Turn Signal, Left		X	X
Turn Signal, Right		X	X
Turn, Left Latched		X	
Turn, Right Latched		X	
VIN			X
Wheel Drive		X	
Wiper Status, Front		X	



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