HAVIS INTEGRATED CONTROL SYSTEM

The future of mobile office interiors

by: HAVIS Lectronix Ford CROWN NORTH AMERICA

INTEGRATED CONTROL SYSTEM:

What is the Havis Integrated Control System?

Ford Police Interceptor Sedan

Ford Police Interceptor Utility

The Integrated Control System is a space saving design that creates an efficient and safe work environment through the use of a highly integrated and customizable control system.

The Los Angeles Police Department in cooperation with Ford Motor Company, Havis, Inc. and Lectronix developed a bright in-dash touch screen display that provides police officers with a seamless easy to use interface for their equipment.

Vehicle Integration: The Integrated Control System is designed to fit the Ford Police Interceptor Utility and Ford Police Interceptor Sedan dash without permanent modification.

Safety: By relocating computers and video sources to the trunk, the Integrated Control System allows for a flush profile of the OEM dash and a clean cockpit while ensuring OEM safety systems are unobstructed.

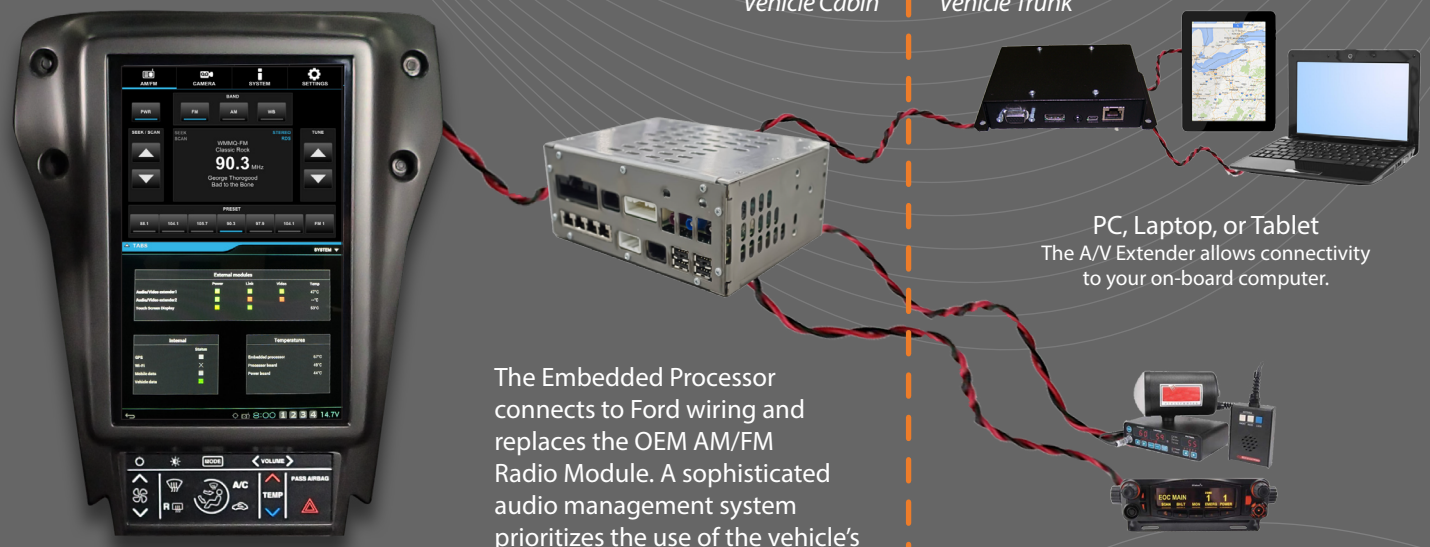
Ergonomics: **The placement and orientation of the Touch Screen Display has been approved by the Los Angeles Police Department, one of the largest police forces in the country with over 10,000 officers.**

Display Visibility and Durability: The ultra-wide viewing angle of the Touch Screen Display gives the driver or passenger full control of the system. The chemically strengthened glass face is also sunlight readable.

HAVIS

THE NEXT STEP IN MOBILE OFFICE INTERIORS

How the Havis Integrated Control System Works



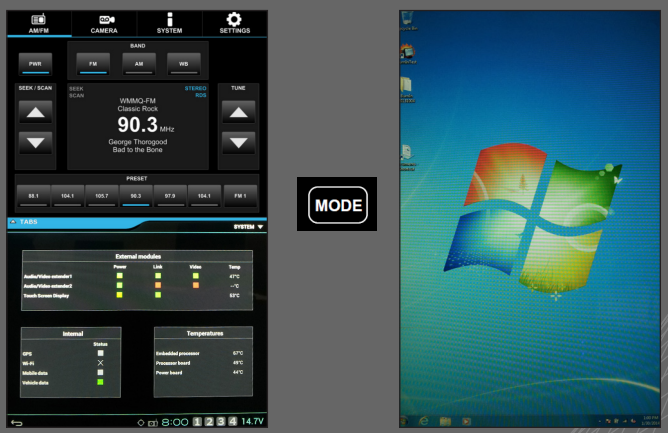
The Touch Screen Display's flexibly connects to all equipment, even external equipment mounted safely in the trunk.

The Embedded Processor connects to Ford wiring and replaces the OEM AM/FM Radio Module. A sophisticated audio management system prioritizes the use of the vehicle's audio system so important communications are not missed (including the car speakers and hands-free microphone).

PC, Laptop, or Tablet
The A/V Extender allows connectivity to your on-board computer.

Easily expand your system with Radar, License Plate Readers and a DVR.

Standard Display Modes



Video Display 1: Driven by the Embedded Processor, the Touch Screen Display provides control for functions such as AM/FM Radio, camera, systems, and settings.

Video Display 2: Driven by the A/V Extender, allowing for video input from a remote PC, Laptop or Tablet that connects to the Touch Screen Display.

Use one touch MODE button to easily alternate between the two displays

Integration of Optional Equipment

Optional Integration: With software and hardware options, the Integrated Control System can support a DVR, Radar, License Plate Reader, and other Customer Applications.

GPS and WiFi Option: GPS integrates turn-by-turn navigation into your Primary Video Display. WiFi connectivity allows the Embedded Processor to connect to WiFi hot spots, enabling 3rd party applications access to the internet.

www.havis.com 1-800-524-9900

Base System Components

- Touch Screen Display
- A/V Extender
- HVAC Controls
- Embedded Processor

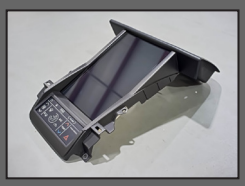
Optional Future Features

- WiFi
- GPS
- Radar
- Bluetooth
- DVR

NOTE: Optional features are available and customizable depending on end user requirements

Component Details

Touch Screen Display



- 12.1" ultra-durable portrait display
- Multi-touch operation (pinch & swipe)
- Optimized screen allows for use with wet hands and/or gloves
- Power and video from a single cable from Embedded Processor

Resolution	800 x 1280
Brightness	1200 NIT Daylight Readable
Viewing Angle	88° from all angles
Environmental	-20°C to +70°C

A/V Extender

- Ability to remotely connect an external audio/video source to the Touch Screen Display such as PC, laptop, or tablet
- Connects VGA or HDMI, micro-USB*, and Analog Audio to Embedded Processor with a single shielded CAT6A cable, which is designed for an automotive environment

Inputs from PC	VGA, HDMI, micro-USB*, Audio
Power Connection	No separate power required
Environmental	-40°C to + 85°C

* *micro-USB only allows for the input of External Keyboard, Mouse, and touchscreen feedback*

HVAC Controls

- Replaces factory HVAC (climate) controls, hazards and airbag indication
- Optimal cockpit placement and compatible with OEM factory wiring
- Use one touch MODE button to easily alternate between the two displays
- Convenient Buttons for control of Touch Screen Display: volume, display brightness and blackout

Touch Technology	Cap-Sense touch pad controls
Buttons	16 controls with LED back-lighting and status indication
Environmental	-40°C to + 85°C

Embedded Processor

- Mounts in place of OEM AM/FM radio module
- Controls AM/FM Radio, A/V Extender and optional GPS/WiFi
- Steering wheel control functionality is highly customizable to provide "one push" operation of critical functions

I/O	CAN, USB, RS232, Ethernet, Discrete, A/V
Amplifier	4 x 20W speakers
Radio	AM/FM/WB tuner
Application Framework	Android 4.1
Environmental	-40°C to +85°C
OPTIONS	GPS, WiFi, Bluetooth