

MD-X – next generation in-vehicle environment

The Raywood MD-X delivers the ultimate in power and flexibility for efficient fleet management and outstanding customer service.

In today's challenging and highly competitive industry, dispatch operators need solutions that will give them an edge. Raywood's innovative MD-X in-vehicle environment combined with proven, GPS job dispatch software, can deliver outstanding improvements in customer service, operational efficiency and fleet performance for years to come.



Unique approach

The MD-X is fundamentally different to any other in-vehicle device on the market. It consists of a wide-screen, colour display and a powerful system unit or "black box". This revolutionary hardware approach means that the MD-X delivers a powerful, yet cost effective system today and a platform to cater for future growth.

Functional and stylish

Gone are the days when an MDT was designed purely for function. Interiors of vehicles are now more stylish and the Raywood MD-X display is built the same way. An attractive in-vehicle environment enhances the image of the fleet, increasing company prestige and attracting more drivers and passengers.

Protect your investment

Never outgrow a Raywood dispatch system! The MD-X has been designed to allow for system upgrades and new functions without having to deploy new in-vehicle hardware. The unique "black box" approach means that it is simple to add more memory, additional displays, or other peripherals such as smart card readers to the existing hardware. It is also able to integrate with other devices such as mobile phones and Pocket PC phones to handle times when a driver is away from the vehicle. Plus, Raywood's robust GPS dispatching software easily handles the workload of the busiest taxi companies. Why buy a solution that you will outgrow?

Realise the potential

Previously in-vehicle devices were, single bulky units, built on proprietary technology that limited the functions that the device was able to perform. By using the open Microsoft CE.net operating environment, powerful Intel Xscale processors, and the unique "black box" approach the MD-X can now include functions that were previously considered impossible. This includes integrated navigation software, software meters, passenger phone and internet access, location-based advertising and many other passenger and driver services. The MD-X will differentiate your service to drivers and passengers and grow your fleet.

Integrated mapping and navigation

Raywood Street Map is a standard feature of the MD-X in-vehicle device. Now drivers will know where even the most obscure location is! It provides a high level view of the car's location and the destination enabling drivers to successfully navigate to the address. It does not replace the driver's local knowledge; instead it guides new drivers and assists experienced drivers with the street-level detail of a new area. Street Map can be optionally upgraded to **Raywood Navigator**, which is a complete turn-by-turn navigation solution. Raywood Navigator will guide a driver, with both voice and visual directions, through every turn to reach the destination successfully.

Improved safety

Integrated text-to-speech technology means that drivers can maintain their attention on the road, while the details of the job and the directions are simply read out. Text-to-speech can also overcome any misunderstandings with simple text only or voice dispatch solutions.



Raywood



Easy to use

The stylish, 6.5" wide-screen, touch-sensitive, colour display combines the functions of job dispatch, navigation and (optional) meter and phone solutions into a single device. The intuitive, graphical user interface is extremely easy for drivers to operate – even for those not used to computers. The display is powered by the robust system unit also installed in the vehicle. The MD-X system unit can power multiple "slave" displays for meters and other passenger services.

Accurate fleet tracking

Over the last ten years Raywood has perfected the use of Global Positioning System (GPS) to accurately track the location of vehicles and quickly dispatch jobs to the closest available car. Raywood customers using GPS dispatch have seen outstanding fleet growth and deliver exceptional service to drivers and passengers. The MD-X includes an in-built 16 channel GPS receiver.

Increased communication

The MD-X supports both private mobile radio (PMR) networks and public data networks (GPRS, CDMA, 3G) to deliver essential information accurately and efficiently. This can be either exclusively or a seamless combination of both networks.

The emergence of high bandwidth and high speed public data networks means that more information can be delivered to the vehicle without impacting the mission critical job dispatch data. There is now more flexibility than ever before to communicate with vehicles. For customers with PMR networks, public networks can supplement existing data channels. For customers without a PMR network there's now no need to build and maintain one.

More memory

The Raywood MD-X has an extensive amount of memory, which exceeds the demands of most in-vehicle applications. With both 64MB of Flash memory and 64MB of RAM, plus the option to expand with the Secure Digital (SD) card module, the MD-X can have a memory capacity, measured in Gigabytes and similar to many desktop computers.

Mobile phone too (optional)*

With inbuilt GPRS or CDMA modems, the MD-X operates just like a mobile phone for drivers. Drivers can simply attach the hands free audio headset to make mobile phone calls to others in the fleet or externally. Passengers can use the separate handset and have the charge put on the meter.

Keypad & card reader (optional)*

The MD-X integrates with the Raywood card reader and supports all major credit cards, delivering immediate, accurate credit verification. Customised account cards or smart cards can also be read, tracked and verified for transactions from personal and company accounts.

Advanced Raywood dispatch system

The MD-X is the driver's view of the feature rich and highly configurable Raywood dispatch system. Drawing from over 25 years of industry knowledge, the Raywood dispatch system can comfortably cater for specific requirements, including multiple dispatch modes within the same taxi company and an enormous array of industry specific options. This extremely robust and flexible solution is proven to handle the workload of the busiest taxi companies and has led to rapid company and fleet growth.

SPECIFICATIONS

Dimensions:	<ul style="list-style-type: none"> ▶ Display – 191mm (w) x 98 mm (h) x 22 mm (d) ▶ System Unit - 170mm (w) x 108mm (h) x 50mm (d) 	Audio/Visual:	<ul style="list-style-type: none"> ▶ 6.5" TFT colour, wide-screen, touch-sensitive LCD ▶ External Speaker ▶ Internal Microphone ▶ Nokia compatible hands free audio headset (optional)
Display Resolution:	<ul style="list-style-type: none"> ▶ 800 x 480 (wide-screen format) 	GPS:	<ul style="list-style-type: none"> ▶ 16 Channel GPS receiver
Casing:	<ul style="list-style-type: none"> ▶ Aluminium 	Interfaces:	<ul style="list-style-type: none"> ▶ 1 x RS232 (DB9) ▶ 12 x Digital I/O Ports ▶ 4 x Host USB Ports
Processor:	<ul style="list-style-type: none"> ▶ Intel Xscale PXA-255 400 MHz processor 	Modules:	<ul style="list-style-type: none"> ▶ 1 x Radio Interface Board ▶ Radio (PMR) modem ▶ GSM/GPRS modem or CDMA 1xRTT modem ▶ Bluetooth module ▶ Secure Digital (SD) Card module ▶ WiFi module
Operating System:	<ul style="list-style-type: none"> ▶ Microsoft Windows CE.net 		
Memory:	<ul style="list-style-type: none"> ▶ 64MB RAM ▶ 64MB Flash ROM ▶ Expandable with optional SD card module 		
Power:	<ul style="list-style-type: none"> ▶ DC Input: 9V – 15V 		
Power Consumption:	<ul style="list-style-type: none"> ▶ 12W – 15W 		

For more information contact:

sales@raywoodcommunications.com

www.raywoodcommunications.com

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*Available mid-2004