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Thor™ CV31

VEHICLE-MOUNT COMPUTER

The Thor™ CV31 vehicle-mount terminal combines the latest high performance computing technology into a very compact form factor that minimizes driver line-of-sight obstruction. The CV31 presents your critical workflow information where it is easily seen, within reach, but never in the way.



Optimized for vehicle installations, the CV31 features an internal 30-minute UPS backup battery and optional integrated DC-DC power converter that saves on the expense of installing external converters or charge protection devices. The UPS backup eliminates the frustrating wait to login and reconnect after swapping vehicle batteries, keeping operators productive. At shift end, there's no longer a need to wait—idling the vehicle and wasting fuel—to logout and power-down the terminal; an optional ignition-control cable automates the process with a simple turn of the key.

The CV31 is a true multi-modal device capable of handling complex voice-, screen- and scan-intensive applications. Ready for Vocollect™ voice-directed workflow systems, CV31 supports "hands-free, eyes-up" driving, so operators can stay focused. Embedded TouchConnect™ technology makes pairing a Vocollect wireless headset to the terminal quick and easy—just touch it and go.

As the successor to the popular Intermec CV30, Thor CV31 shares the same physical dimensions, mounting attachment locations and I/O connector placement. The addition of a DC power adapter cable makes it possible to drop CV31 right into an existing CV30 vehicle installation, so customers can preserve their investment in mounts, accessories and scanners. Interchanging CV31 and CV30 spare pool units is a simple process, so equipment refresh plans can be phased in at a pace that's right for each and every operation.

Features

- **Operate without Obstruction:** A unique, compact design improves driver visibility by more than 20% compared to competing devices.
- **The Perfect Upgrade:** Compatible with Intermec CV30 mounts, scanners, keyboards and accessories—preserving legacy investments.
- **Powerful Components:** Microsoft® Windows® Embedded Compact 7 operating system takes full advantage of the CV31's OMAP4 1.5 GHz dual-core CPU and 1GB RAM.
- **Cold Storage Capable:** Optional touchscreen defroster extends application to cold storage operations.
- **Smart Power Management:** Optional integrated 9-36 VDC power converter and ignition control eliminates the maintenance expense and lost productivity caused by a dead vehicle battery.
- **Vocollect TouchConnect:** A simple touch is all that is needed to pair Vocollect SRX2 headsets to the CV31.

Thor CV31 Technical Specifications

Mechanical	
Dimensions (LxWxH)	17.65 x 18.92 x 5.6 cm (6.95 x 7.5 x 2.15 in)
Weight	12V Version: 1.51 kg (3.32 lbs); 9-36V Version: 1.65 kg (3.64 lbs)
Operating Temperature	-30 to +50°C (-22 to +122°F)
Storage Temperature	-30 to +70°C (-22 to +158°F)
Humidity	5% to 95% non-condensing
Environmental Sealing	IP66 (dust tight and high-pressure water)
ESD	IEC 61000-4-2 Level 4 (±8kV direct, ±15kV air)
Vibration	MIL-STD-810G, Method 514.6, Procedure 1
Shock	MIL-STD-810G, Method 516.5, Procedure 1
Mounting	RAM mount, C-size (1.75 in) or D-size (2.25 in) ball and arm
System Architecture	
Processor	Texas Instruments 1.5 GHz OMAP 4470 dual-core
Memory	1 GB RAM
Mass Storage	16 GB Flash
Expansion Storage	User-accessible microSD™ slot for removable cards up to 32 GB
Operating System	Microsoft® Windows® Embedded Compact 7
System Software	Data collection engine for support of external scanners, RFID, and printers; Bluetooth® wireless technology printing and scanning configuration utilities; SmartSystems™ configuration management software; CloneNGo simple device cloning without a remote management console; Device health monitoring for key subsystems, with local dashboard and remote monitoring capability
Optional Software	Terminal Emulation; Enterprise Browser; HTML5 Browser; Launcher; Remote MasterMind™ device management software
Power Supply & UPS	12V DC input standard; Integrated li-ion maintenance UPS with 30 minutes life at -20°C (-4°F) standard; Optional internal 9-36V DC-DC isolated converter; Optional ignition-sensing cable for automatic power control; Optional extended range external DC converter (6-96V DC); Optional AC converter (100-240V AC, 50-60 Hz)
Display	16.5 cm (6.5 in) VGA (640x480), LED backlit, 600 NIT
Touch Panel	Industrial touch panel with resistive touch and support for finger touch and stylus; Optional screen defroster
Keyboard	Four programmable multifunction keys; Optional external keyboards (including IP66-rated compact keyboard for direct mounting to CV31); Optional large-format VT220/3270/5250 external USB keyboards for remote mounting (ideal for gloved hand use)
Audio	Stereo output (4-wire jack); Microphone input (PTT); Integrated speakers for notifications
I/O Ports	2x Standard serial ports (DB9); 2x USB 2.0 host ports (DB15 locking cable required); 1x USB client for Windows Device Center (DB15 cable required); 1x Ethernet 10/100 (RJ45)
Development Environment	Thor CV31 SDK available for download from www.honeywellaidc.com
Warranty	1 year factory
Service Plans	Optional 3 and 5 year service programs offer worry-free mobile computing
Wireless Connectivity	
WLAN	802.11a/b/g/n; Wi-Fi CERTIFIED™; Cisco® CCXv4 certified
WLAN Security	WPA and WPA2; WAPI certified; 802.1x authentication; WEP (64-bit or 128- bit); AES, TKIP
WPAN	Bluetooth Power Class 1.5, Version 4 BLE
NFC	TouchConnect™ automatic Bluetooth pairing and voice profile synchronization with Vocollect VoiceCatalyst™ software and SRX2 headset

For a complete listing of all compliance approvals and certifications, please visit www.honeywellaidc.com/compliance
For a complete listing of all supported bar code symbologies, please visit www.honeywellaidc.com/symbologies

For more information:
www.honeywellaidc.com

Honeywell Scanning & Mobility
9680 Old Bailes Road
Fort Mill, SC 29707
800.582.4263
www.honeywell.com

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