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ASTRO 25 Mobile CPS R12.01.00

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- VISTA with Service Pack 1 is supported in R12.00.00 CPS and higher!
(see 'For VISTA Users' section below).
- If both portable and mobile CPS's are used, it is recommended to update both at the same time, and tutorials should be installed with BOTH versions.
- POP25 feature is NOT supported with VISTA operating system.

New Radio Features Supported:

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- Noise Suppression

NOTE: Firmware version R12.00.00 or higher is required for this feature to work in the radio.

- Strong Signal Roaming

NOTE: Firmware version R12.00.10 or higher is required for this feature to work in the radio.

- Infinite UKEK Retention

NOTE: Future Radio feature. Please check firmware release notes for details.

Detailed information for each of these features can be found in the CPS help. Help can be accessed from the CPS menu by selecting Help-> CPS Help Topics.

New CPS features supported:

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- Text Messaging on Conventional IV&D System
- Conventional Transmit 800 Mhz frequencies expanded to 824.98750

Customer Reported Issues Resolved:

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- "Blank" menu option did not show up on the display of the PM1500
- 700 MHz frequencies could not be programmed into Rebanding model radios which had been upgraded to standard models through FLASHport.

For VISTA Users:

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The following configuration on Vista Home Premium and Business Premium needs to be set for the CPS to function properly:

- Vista Theme should be set to "Windows Classic".
- Codeplug archive names should not exceed 30 characters.
- A Vista compatible printer is required for using the Print functionality in the CPS.
- In order for the PDA to synch successfully with CPS on Vista, Windows Mobile Device Center should be used. It can be downloaded from <http://www.microsoft.com/windowsmobile/devicecenter.mspx>,
- User Access Control should be turned OFF before using CPS

Features that do not work with User Access Control (UAC) ON:

- Feature Access Setup
- PDA – ASTRO 25 CPS Tool will not install
- Any feature that uses log files such as POP25 Programmer

Tutorials Update:

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Due to the newly added support for Vista, the tutorials and help engine have been updated to a new format. Required modifications to the new help format require Microsoft Internet Explorer version 6 or above. Microsoft shipped Internet Explorer version 6 in 2001.

Thirteen of the online help's tutorial files have been converted from an AVI format (.avi) to the Adobe Flash (.swf) format. The .avi to .swf conversion saves over 250 megabytes of harddrive space.

All tutorial lessons are now in the Flash format. These tutorial lessons require Flash Player version 6 or above to be installed. Flash version 6 was shipped in 2002.

Currently there are approximately 60 tutorial lessons requiring about 70 megabytes of harddrive space. The tutorials are always installed in a “\Tutorials” subfolder for each of the CPS applications.

It is strongly recommended to install the tutorials with this new version of the CPS. Previous tutorial versions are not recognized by R12.00.00 CPS or higher.

Note: Double-clicking a link within the help text might generate a error message.

Important Change Control Head information:

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Make sure to perform the following steps when changing to 'O5/O3' control head from Wx control heads in the XTL 5000 radio:

- 1) FLASHport upgrade the radio using appropriate 'Refresh' FLASHkey
- 2) From the Change Control Head Window in the CPS, select the new "O5" control head
- 3) Write the codeplug to the radio
- 4) Physically change the old control head to the new "O5" or "O3" control head

More information can be found under Help-> CPS help topics -> Index -> 'Change - to the New ASTRO 25 Control Head'

System Requirements:

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Operating Systems: Windows NT 4.0 (SP 6a or higher)

Windows 2000

Windows XP Home Edition

Windows XP Professional

Vista Home Premium 32-bit (SP 1 or higher)

Vista Business 32-bit (SP 1 or higher)

NOTE: XP upgrade OR Vista upgrade from other operating systems is not supported.

Windows ME and Windows 98 are not supported.

You may choose to proceed with the installation, but some features might not function properly. Upgrading

to a supported operating system is highly recommended.

Hardware Requirements:

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Processor 400 MHz or higher Pentium grade Processor
 Vista requires 1 GHz

Memory 512 MB RAM minimum for all supported operating
 system except for Vista. Vista minimum requirement
 is 1 GB of System memory

Hard Disk Space 1 Gigabyte Drive with 250 MB minimum free space
 (for a Typical Installation, including Help
 Audio-VisualTutorials) or 150 MB minimum free
 space (for a Compact installation)
 40 GB hard drive for Vista

Peripherals Microsoft Windows supported Mouse or Trackball
 Microsoft Windows supported Serial Port
 for radio communication
 Microsoft Windows supported Printer Port
 for report printing
 CD-ROM for software installation

NOTE: For computers that are not equipped with
 a serial port, radio communications may be
 possible with the use of an off-the-shelf
 USB to RS232 converter, such as the IOGEAR
 USB to Serial/PDA Converter Cable.

Known Issues:

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- 1) Drop down items in table fields cannot be accessed when using Windows XP Professional "Windows XP Style" display. If this issue is encountered, change the display setting to "Windows Classic Style" for proper functionality.
- 2) Attempting to Read from or Write to a radio with the CPS while the Tuner, Data Link Manager, or synchronization software for a PDA is open and communicating with a radio will cause a communication failure.
- 3) Due to French import laws, the Microsoft encryption support used to create archive (.cpg) files with the CPS (Customer Programming Software) is not available on the French version of the Windows Operating Systems.

Therefore, there is no way to save archive files when the CPS is installed on the French version of Windows. Until import laws are changed such that Microsoft can provide encryption support, this feature can not be addressed.

- 4) Under Tools->FLASHport->Read Radio Configuration, closing the dialog box by pressing the 'X' in the upper right of the dialog while the application is still busy (the cursor is shaped like an hourglass) may terminate the application.
- 5) Memory issues have been reported when 3 or more sessions of the CPS are open at the same time.
- 6) Very seldom, communication errors might be encountered during radio read/write, if this happens, reset the radio and try again.
- 7) If Logitech MouseWare version 9.76 is installed on the PC, it causes Tools>Reports to fail and enter corrupt data in the registry. This occurs when an ampersand is entered as part of a Zone Channel name. If the MouseWare is either removed or upgraded to MouseWare version 9.79.1 or later, it resolves the problem.
- 8) PDA application does not support HPD 1000 radios.
- 9) Once starting to read or write codeplug via POP25, the process can't be cancelled. Depending on the size of codeplug, this process could take long time (3 to 8 minutes).
- 10) Please avoid saving an invalid codeplug with "~" characters in table fields. Doing so may cause the application to terminate.
- 11) If a communications error is encountered when attempting to Clone HPD 1000 radios (mostly while running in Windows 2000), in the CPS, under View -> Options -> Timer Options tab, change the value of 'Clone/Read/Write Timer (sec)' field to '5' or higher.
- 12) If a communications error is encountered when attempting to FLASHport update radios, in the CPS, under View -> Options -> Timer Options tab, change the values of 'FLASHport Timer' fields to '20' or higher
- 13) If an Advanced System Key(ASK) fails to load, close the currently open codeplug and reopen it. The System Key should be active, even though an error message may appear.
- 14) When formatting an Advanced System Key, the 'Initialize' message may appear several times. Please select 'Cancel' to proceed.
- 15) 'Failsoft Connect Tone' field can only be Advanced System Key protected if 'Connect Tone' is also protected. Specific protection for this field is not supported.
- 16) Voice Files do NOT get copied when using POP25 feature.
- 17) "Preset Zone and Channel Enable" should NOT be enabled when using a DTMF mic.

Installation:

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- 1) It is no longer required that the previous version of the application be uninstalled before installing this release. Note that this does not allow multiple versions to be installed, rather the already installed application will be upgraded.
- 2) When the Installation CD is inserted into the CD-ROM drive, the installation will start automatically if auto start is enabled for the PC. Follow the on-screen instructions to install the software.
- 3) Windows NT Installation: If the Install does not find the shlwapi.dll in *\\WINNT\\System32 directory, Internet Explorer IE5.01 SP1 or above must be installed to facilitate the XML installation, which is required for the FLASHport feature of the CPS.
- 4) Please refer to the CPS Programming Installation Guide, which is included with this software for more detailed information.
- 5) If a file installed by the CPS later becomes corrupted, the Repair option on the Installation CD may be used to restore it. It is very important that the Installation CD for the same version that is installed on the computer is used for Repair. Use of a different version in an attempt to Repair an installation will result in further corruption.
- 6) If the PC has never had a 1-Wire USB device connected to it before, such as the USB dongle used for FLASHkeys or Advanced keys, then plug it in right after installation to complete the USB install. If it is not recognized or if auto-detect can not locate the USB device driver, then point the New Hardware Wizard's Driver installer to it in the install drive, such as "C:\\WINDOWS\\system32\\drivers.
The wizard should then find and install the driver automatically.

Connecting the PC to the Radio:

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Do not use the Radio Interface Box (RIB), Smart Radio Interface Box (SRIB) or any of the cables that plug into those boxes. Use only the following direct PC to radio cables:

ASTRO Spectra Plus / XTL 5000 RS232 cable = HKN6155

XTL 5000 High Power / XTL 5000 with 'O5' Control Head / XTL 2500 / XTL 1500 / PM 1500
RS232 GCAI cable = HKN6183

XTL 5000 High Power / XTL 5000 with 'O5' Control Head / XTL 2500 / XTL 1500 / PM 1500

USB GCAI cable = HKN6184

HPD 1000 USB Cable = HKN6177A (6 ft) or HKN6178A (16.5 ft)

When using the USB cable, be sure to always click "Yes" on the Digital Signature window whenever it is displayed by the operating system. Note that the USB cable can be used only with Windows XP Service Pack 1 or higher and Windows 2000 Service Pack 2 or higher operating systems. The CPS or Tuner application must first be installed before attaching the USB cable and turning the radio on.

For additional cables information, go to Help-> CPS help topics -> Index -> Part Numbers

Programming Hints:

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- 1) For trunking customers, the first time the CPS is started, navigate to the User Settings Dialog under the Tools menu and set up the directories where the system key files will be stored.
- 2) To retrieve data from ASTRO Spectra codeplugs, first read the codeplug into the ASTRO Spectra CPS and use the top node drag and drop feature to copy the data into the ASTRO Spectra Plus or XTL codeplug. Drag and drop is a very powerful and time-saving tool, but the data should always be verified before writing to a radio. The Drag and Drop Report can help with this verification. Please view the Drag and Drop Tutorial included in Help for more information.
- 3) To get help on a field, press F1 while focus is on the field, or click on the Help button on the tool bar (an Arrow with a question mark) and then click on the field for which help is desired.
- 4) For more information on the features available in the Windows CPS, we suggest viewing the audio-visual help tutorials. They can be accessed from the CPS menu by selecting Help->CPS Help Topics, and then double-clicking on CPS-User...Audio & Video Tutorials, then The Tutorials Menu. Then select the appropriate tutorial.