

### Version 1.7.2 Release Notes (Changes Since Versions 1.7.0 and 1.7.1)

**Important!:** Horizon Imagers that shipped from the factory with version 1.7.2 software may contain an improved smart card with additional storage capacity. The new cards are incompatible with older software versions. You can determine if you have a new smart card by its part number, 029-005-003.

#### Summary

Horizon version 1.7.2 software offers new features, improvements, and repaired defects as detailed below. This software is compatible with all Horizon imagers. Any Horizon imager running software versions 1.4.x through 1.7.1 can be upgraded to version 1.7.2.

This document details only changes from versions 1.7.0 and 1.7.1 software. If you are upgrading from an older software version, previous Horizon Imager Software Release Notes can be downloaded from the Codonics® web site.

Changes to 1.7.2 PostScript® printing requires loading new Windows® PostScript drivers (Version 1.7.2). These drivers can be obtained from the Codonics web site, from a CD (part number 020-056-002) distributed with version 1.7.2 software, or directly from the imager. See Tech Brief 901-068-003 for details.

#### New Features

This section details new features available with Horizon version 1.7.2 software.

- ◆ **New MCM (Medical Color Matching™) profiles 9 and 10 added:**
  - ◆ MCM 9 = 3D rendering, CRT Monitors
  - ◆ MCM 10 = 3D rendering, LCD Monitors
- ◆ **AppleTalk® interface support.** The AppleTalk PAP print protocol is now supported for improved compatibility with Macintosh® OS8 and OS9 systems. LPR is no longer required to print from these systems.
- ◆ **MCM bracketing now supported.** The MCM bracketing device (device 8) is now supported allowing a sheet to be printed showing all standard MCM settings. See the Horizon Users and Technical manuals for details.
- ◆ **Imager print counters.** Print counters are now stored for all media type / size combinations and can be viewed by logging in with a userid of "mediacount."
- ◆ **Support for 32K smart card.** 1.7.2 software supports new 32 KB and older 16 KB smart cards. Previously, only 16 KB smart cards were supported.

- ◆ **Support for PNG and DICOM image formats.** ImageSense™ now supports the (PNG) Portable Network Graphics and DICOM (including ACR-NEMA) image formats. Note that ImageSense support for DICOM formatted images is separate from the standard DICOM interface which does not use ImageSense.

#### Product Improvements

This section details features which have been improved with Horizon version 1.7.2 software.

- ◆ **DICOM Interface Improvements.**
  - ◆ Support for DICOM true-size with Cropping. The DICOM "crop" directive for true-size imaging is now supported. Images with this attribute will be cropped when the image size is larger than the media (film or paper) printable area. Previously, such images were scaled to fit on the media.
  - ◆ DICOM Lite functionality has been expanded to "DICOM Lite 1" (single connection) and "DICOM Lite 2" (up to two connections). Feature keys have been added to support these changes. The "DICOM Lite" feature key has been changed to "DICOM Lite 2."
  - ◆ A control panel warning message will now be displayed when temporary DICOM keys are within 10 days of expiration or have expired.
  - ◆ An error message is now logged when the maximum number of DICOM connections has been exceeded.
  - ◆ Due to software license restrictions, imagers with no DICOM interface will no longer reject DICOM associations. Instead it will simply not respond to association requests.
- ◆ **PostScript Interface Improvements.** See Tech Brief 901-068-003 for details.
  - ◆ Windows Network Protocol (SMB) printing is now available for all supported Windows versions.
  - ◆ Windows "point and print" driver installation is now supported.
  - ◆ Horizon print drivers can now be downloaded directly from the Horizon imager instead of installing from a CD or downloading from the internet.
  - ◆ All media size and type and printable area selection has been consolidated into a single "page size" or "paper size" menu. Separate menus for media size and media type have been eliminated.
  - ◆ **ChromaVista®** paper and **DirectVista®** paper now have separately defined printable areas. This allows PostScript to use the full printable area of **ChromaVista** paper. Previously, **ChromaVista** paper was restricted to the printable area of **DirectVista** paper.
  - ◆ Changed "Decimate Warning" in drivers to "Image Warnings" to reflect changes in the name and usage of this parameter in the imager software.

- ◆ A "Driver Version" menu has been added to printer "Properties" or "Features" to display the driver version.
- ◆ PostScript drivers now include selection of OEM-specific custom MCM settings. Note that the 1.7.2 PostScript Drivers are specifically matched to the 1.7.2 imager software and will not include OEM-specific custom MCM settings provided in future software versions.
- ◆ A control panel warning message will now be displayed when temporary PostScript keys are within 10 days of expiration or have expired.
- ◆ Full Macintosh computer support for OS8, OS9, and OSX for both AppleTalk and TCP/IP LPR printing.
- ◆ **Service and Production Utility Improvements.**
  - ◆ Added service tool for viewing print count and error count information. See Tech Brief 901-104-001 for details.
  - ◆ Added service tool for running a print head "quick scan" to check for blown pixels. See Tech Brief 901-105-001 for details.
  - ◆ Added a service tool for enabling an extended pick motion to assist in picking 14x17 **DirectVista** film that has been exposed to unusually high temperatures or pressures. See Tech Brief 901-099-001 Rev. B for details.
  - ◆ Added support for bit-mapped product subassembly IDs. This allows the software to be optimized for various hardware configurations.
  - ◆ Development (unreleased) software now requires an "Evaluation" feature key. A feature key has been added to support this change. Development software will not recognize any cassettes or enable any print interfaces without this key. Temporary feature keys are available through Codonics technical support for demonstration and evaluation of development software.
- ◆ **Improved ChromaVista paper color registration.** An improved method for detecting the lead edge of **ChromaVista** paper provides improved registration of color planes resulting in sharper, crisper images.

## Defects Repaired

This section details product defects that have been repaired by Horizon version 1.7.2 software.

- ◆ **DICOM Interface Defects Repaired**
  - ◆ Saturation bracket print (device 9) now works correctly for DICOM color images.
  - ◆ Text and image orientation has been corrected for DICOM bracket prints and now matches the (correct) orientation used for FTP and LPR prints.
  - ◆ DICOM empty image density can now be controlled independently of the border density. Previously, the empty image density would be forced to match the border density. (Obscure)
  - ◆ Unprintable DICOM sheets no longer cause the Control Panel Active light to flash indefinitely. (Obscure)
  - ◆ Corrected a defect where DICOM landscape prints with trim lines would sometimes not print. (Obscure)
- ◆ **DICOM TCP-IP port now does an upper bound check.** Illegal port numbers (> 32767) now are reset to 104. (Obscure)
- ◆ Timing of DICOM association terminations has been improved to ensure that the termination is properly received by the Service Class User. (Obscure)
- ◆ **PostScript Interface Defects Repaired.**
  - ◆ Corrected problem where 14x17 PostScript prints were not using the full printable area of 14x17 media in some circumstances.
- ◆ **Reduced mechanical-line artifact with 11x14 and 14x17 DirectVista film printing from top cassette.** Previously, there was a visible line about four inches from the bottom of the film. The visibility of the line varied from one imager to another and in some cases there was a visible density difference above and below the line. Now there is a much less visible line about two inches from the bottom of the film with no visible density difference above and below the line. This issue effects only the top cassette slot.
- ◆ **Corrected a problem where the Control Panel screen would falsely report a zip disk eject error during software installation.**
- ◆ **8x10 DirectVista Film increased margins.** Slightly increased unprinted side margins for improved compatibility with new hardware. (No change to imageable area).
- ◆ **Corrected problem where a print length calibration print in full bleed mode would cause a software error.** (Obscure)

## Known Issues

- ◆ **Unsupported DICOM image compression results in an "out of memory" error at the host.** (Obscure)
- ◆ **DICOM Lite does not work properly on some systems.** Some systems require multiple DICOM associations for single-modality connections. This results in imager communication errors on the host system when using DICOM Lite. If you experience this problem, please contact Codonics technical support.
- ◆ **PostScript cropping or padding.** Images pre-scaled to the full page size may experience slight cropping or padding due to rounding effects from converting between points and pixels.
- ◆ **Automatic color print detection currently checks only the first image on a sheet.**
- ◆ **An empty VMF canvas (a sheet with no cells) will result in an error and cause the imager to reboot.** Only special custom applications use VMF (Variable Multi-Formatting). Neither DICOM nor PostScript use VMF.
- ◆ **Captions not supported with landscape printing.**
- ◆ **Automatic file system cleanup is not performed when captions are installed.** For optimal performance, work around is to uninstall captions, reboot imager, and reinstall captions approximately once per month.
- ◆ **ChromaVista Film is not yet fully supported.** "CV Film" currently appears in certain control panel menus.
- ◆ **FMF "SETUP" commands do not persist from one sheet to the next.** Work around is to send a "SETUP" command with each sheet.
- ◆ **NP Emulation (300 DPI) mode not yet supported.**

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