

Version 1.9.0 Release Notes (Changes Since Versions 1.8.5)

Summary

Horizon version 1.9.0 software offers support for 14"x36" and 14"x51" **DirectVista**® Film for the Horizon XL Imager as well as support for the IHE Consistent Presentation of Images Profile (CPI). This software includes multiple reliability and operational improvements in addition to repairing defects as detailed below.

Important!: This software is compatible only with the Horizon XL Imager and is not intended for installation on other Horizon models.

New Features

This section details new features available with Horizon 1.9.0 software.

- ◆ **Support for the IHE Consistent Presentation of Images Profile (CPI).** 1.9.0 software provides support for the Grayscale Standard Display Function and Presentation LUTs.
- ◆ **Full Support for 12-bit images.** 1.9.0 software supports 12-bit images sent to the imager via DICOM. Previous software versions converted 12-bit images to 8-bit prior to printing. While full 12-bit image support may increase image quality, it may also increase processing time for 12-bit images.
- ◆ **Full support for 14"x36" and 14"x51" DirectVista Film.** 1.9.0 software provides full support for 14"x36" and 14"x51" media for use in the Horizon XL Imager.
- ◆ **Scale Factor added to Default User Settings and Custom Job Settings.** Combined with Crop Anchor, the Scale Factor setting will allow hosts unable to utilize requested image size to magnify the image by a given multiplier.
- ◆ **Various useful service utilities.** 1.9.0 software adds a Quick Info menu to the control panel to allow quicker access to useful imager information.
- ◆ **Extended Status Print.** A new Test Print has been added that generates five sheets containing imager status information, media counters, error logs, and Custom Job Settings.

Product Improvements

This section details features that have been improved with Horizon 1.9.0 software.

◆ Reliability Improvements.

- ◆ 1.9.0 software upgrades the main operating system to Red Hat Linux 7.3 which includes the 2.4.20 Linux Kernel. Advantages include better process scheduling (resulting in smoother control panel operation), improved network security, file system improvements, and more efficient virtual memory handling.
 - ◆ 1.9.0 software ensures enough disk space is available before accepting FTP jobs and saving log files to a zip disk.
 - ◆ 1.9.0 software adds a software firewall to prevent unwanted access and to increase system security. Upgrades to many of the internal image format libraries protect against various security vulnerabilities. Directory listing is no longer allowed in the FTP interface.
 - ◆ 1.9.0 software provides support for the Progressive JPEG format.
 - ◆ 1.9.0 software increases the storage for log files so a greater amount of historical information is retained.
 - ◆ 1.9.0 software prohibits the Film View sheet setting for **DirectVista** Paper and **ChromaVista**® Paper.
 - ◆ Improved reporting of smart card reader errors to the user.
 - ◆ Added firmware support for a larger TPH EEPROM. (new hardware support)
 - ◆ General reliability improvements to the print engine firmware.
- ##### ◆ DICOM Interface Improvements.
- ◆ Added an alternative /shorter AE Title to select the imager's default color and default grayscale medias. DMC (Default Media Color) resolves to DefaultColor and DMG (Default Media Grayscale) resolves to DefaultGrayscale.

- ◆ **PostScript Interface Improvements.**
 - ◆ Support has been added for the Microsoft Windows XP 64-bit operating system.
- ◆ **Control Panel Improvements.**
 - ◆ A warning has been added to the control panel that suggests the pick tires may need cleaning.
 - ◆ 1.9.0 software enhances the Custom Job Settings menu to allow for easier editing and copying.
 - ◆ 1.9.0 software adds MCMBRACKET and GCSBRACKET to the Custom Job Settings control panel menu allowing media type and size to be modified. These Job Settings were available in previous software versions but were not changeable via the control panel. This change allows bracket printing and media selection to be controlled with a single Job Settings file (typically selected by an AE title).
 - ◆ Control Panel now beeps whenever a job is queued for a media that is not loaded.
 - ◆ When copying a Custom Job Settings file using the Control Panel, automatically traverse into editing the new setting instead of returning to the list of Custom Job Settings.
 - ◆ When copying a Custom Job Setting, the original name is now used as the base name instead of using COPYX. For example MRI would be copied into MRI1 instead of COPY1.
 - ◆ Job Settings file names are now always converted to upper case.
 - ◆ New Custom Job Settings now appear immediately.
 - ◆ Faster response when processing print jobs.
- ◆ **Service and Production Utility Improvements.**
 - ◆ Added a pq_dump utility that performs a text dump of the contents in the print queue.
 - ◆ Added a utility to dump the current Custom Job Settings.
 - ◆ Added a utility to dump both the software error log and the engine firmware error log.
 - ◆ Enhancements to the directory and filename format when saving logs to a zip disk. New functionality was added so that multiple logs from the same imager can be saved on one zip disk.
 - ◆ Added additional functionality to the Status Test Print allowing for an extended status print that includes logs, media counters, and Custom Job Settings.
 - ◆ Added a density uniformity print to the Test Print menu.

- ◆ Report which receive tray a print was ejected to in the system log.
- ◆ Additional counters were added to report ChromaVista and DirectVista media jams requiring operator intervention.

Defects Repaired

This section details product defects that have been repaired by Horizon version 1.9.0 software.

- ◆ **Ribbon Barcode Failure.** Fixed issue in which the ribbon barcode read fails after entering a new feature key.
- ◆ **Unsupported symbolic printer names.** Symbolic printer names were not being handled correctly over the LPR and FTP interfaces. (Example: "system" now resolves to device 0, "unscaled" resolves to device 1, etc).
- ◆ **LifeImager Test Prints omitted.** Certain Test Prints were added to LifeImager products that were previously omitted.
- ◆ **Unable to set DV Paper Darkness to -10.** The DV Paper Darkness feature added for 1.8.0 now displays the setting of -10 correctly on the user interface.
- ◆ **Incorrect network information displayed.** Corrected issue in which the network IP address information was being incorrectly reported when IP aliasing is used on a class A or B network.

Known Issues

This section details product defects that exist with Horizon version 1.9.0 software.

- ◆ **Unsupported DICOM image compression results in an "out of memory" error at the host.** (obscure)
- ◆ **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. (obscure)
- ◆ **Captions not supported with DICOM landscape printing.**
- ◆ **SA-1000/2000 Frame Grabber incompatibility.** 1.9.0 software induces a defect that effects the transmission time from the SA-1000/2000 Frame Grabber. The image is transmitted successfully, but much slower than in previous versions of software.
- ◆ **PostScript Crop Margin fails on blank pages.** PostScript jobs specified with Crop Margin = true fail when processing blank pages. Jobs will print all sheets up until the blank page. The blank page and sheets after the blank page are dropped.

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17991 Englewood Drive
 Middleburg Heights, OH 44130 USA
 (440) 243-1198
 (440) 243-1334 Fax
 Email info@codonics.com
 www.codonics.com

Codonics Limited KK
 New Shibaura Bldg. F1
 1-3-11, Shibaura
 Minato-ku, Tokyo, 105-0023 JAPAN
 Phone: 81-3-5730-2297
 Fax: 81-3-5730-2295