

NP-1660 Operating Software Release 3.1.0

Overview

NP-1660 Operating Software Release 3.1.0 is an upgrade for all NP-1660, NP-1660M and NP-1660MD printers. This release includes both reliability improvements and new features. It can be applied to any NP-1660 Series printer currently running Release 2.2.0 or higher. Use the following front panel menu sequence to check the software version:

READY → SYS INFO → REL #: ?.??

Printers with software before Release 2.2.0 should contact Codonics' Technical Support department for inquiries on updates.

3.1.0 Release Notes

- ◆ Simplified software loading from diskettes. A single set of diskettes will load Release 3.1.0 including DICOM v2.5.1.
- ◆ Added support for Philips Medical Systems custom LUT on DirectVista Film only. Selectable through front panel menu:

READY → MEDIA → (GRAY)DV → LUT → LINEAR
→ VISUAL
→ PHILIPS

- ◆ Added support for new Version 4 thermal printhead calibration profile to improve left-to-right density consistency of DirectVista film.
- ◆ Changed **stat** command to report Version 3 or Version 4 printhead profiles after the printhead key.
- ◆ Improved support for 16MB SPARC configurations for backwards compatibility. 16MB is only recommended for printers without DICOM or Postscript features enabled.
- ◆ Changed Ethertalk protocol to only start when a valid Postscript Activation Key is installed.
- ◆ Updated Windows 2000 print driver to use native driver instead of NT 4.0 based driver.
- ◆ Added Windows XP and ME print driver.
- ◆ Improved print speed of Density Calibration Print.
- ◆ Improved speed of Postscript by 30% on 32MB systems.
- ◆ Changed Level-0 Reset to preserved activation keys from 00-99.
- ◆ Changed ImageWeb HTTP server to prevent "Code RED" network virus attack.
- ◆ Corrected "Check Ribbon" front panel message reporting on some DirectVista media change operations.
- ◆ Corrected filename/username white space problem in ImageWeb.
- ◆ Corrected filename/username white space problem in EtherTalk.
- ◆ Corrected recovery disk problem with different OpenBoot versions on SPARC board.
- ◆ Improved DMAX handling of film media with DICOM prints.
- ◆ Known problem: The ImageWeb feature is provided for backward compatibility and some features do not work properly.

- ◆ Known problem: Some media change operations are not properly handled by the printer resulting in an erroneous error message. A reboot is recommended if this occurs.
- ◆ Known problem: The soft shutdown feature will display **POWER OFF SAFE**, 10 seconds before the printer is ready for power-off. It is recommended to wait at least 10 seconds after seeing the message before turning off the power switch. The printer has built-in recovery mechanisms that will restore the software if the power is shut off prematurely.

3.0.2-01 Release Notes

- ◆ Improved media handling when changing between ChromaVista™ color media and DirectVista™ grayscale media. This corrects a problem that caused unstable printer operation during some media change conditions.
- ◆ Changed *out of media* handling to require the same media type and size be re-installed to complete the pending print job.
- ◆ Known problem: When printing images which have a very small printable area at the end of ChromaVista™ CMY ribbons, the printer can lockup. Cycling power is required to restart.

3.0.2 Release Notes

- ◆ Added new compensation algorithm to improve uniformity of flat fields on DirectVista™ Film.
- ◆ Added special bootable partition to allow **boot disk3:h** from SPARC OprnBoot prompt to initiate software recovery.
- ◆ Added ImageWeb feature for NOSCALE of TIFF and PNG.
- ◆ Changed DirectVista™ Film LUT to improve linearity of grayscale display function.
- ◆ Fixed update diskette problem that did not place calibration data in recovery partition.

3.0.1 Release Notes

- ◆ Changed engine handling software to correctly detect media type after tray change or ribbon change.
- ◆ Changed density calibration print to reduce size of target area. This provides more uniform density readings for calibration.
- ◆ Changed density calibration print to allow only one print at a time to be initiated from the front panel menu.
- ◆ Changed boot sequence to force date of real-time clock into a legal range to prevent problems with Veritas filesystem when date is significantly out of range.
- ◆ Changed ImageWeb to range check Dmax setting for DV-Film.
- ◆ Changed ImageWeb to replace illegal characters in filenames with underscores.
- ◆ Changed ImageWeb to put in placeholder for online manuals.
- ◆ Fixed automatic accounting log trim routine to use new location of accounting log.
- ◆ Fixed problem in VMF and Bracketing when printing TIFF files which require scaling to adjust for differences between image resolution (DPI) and printer resolution.
- ◆ Fixed missing files problem in online Windows print drivers.

3.0.0 Release Notes

- ◆ Added Postscript™ Level 3 compatibility. This feature requires a Postscript Activation Key on the printer. Contact Codonics' Technical Support or Customer Service for more information.
- ◆ Added support for the Exif format of JPEG images. This format is commonly used by digital cameras.
- ◆ Added support for PNG (Portable Network Graphics) images.
- ◆ Added Microsoft Windows™ SMB protocol network support for printer browsing, driver loading and direct printing from Windows 95/98/NT4/ME/2000. This feature allows computers with Microsoft Windows Operating Systems to print to the printer without installing an LPR client. This feature only works if a valid Postscript Activation Key is installed on the printer.
- ◆ Added new features to the Microsoft Windows Print Drivers that allow more control over formatting and color management.
- ◆ Added new front panel menu options to directly initiate the standard test print and low level engine test print.
- ◆ Added new front panel menu options to **ADD** and **VIEW** keys.

READY → KEYS → ADD → **KEY**_____

READY → KEYS → VIEW → **KEY**_____

- ◆ Added a new front panel menu option under the **NETWORK** menu that allow the Ethernet interface connector and speed to be specified. Interface settings include:

READY → NETWORK → SPEED → **AUTO**
→ **AUI-10**
→ **RJ45-10**
→ **RJ45-100**

- ◆ Added a new front panel message to automatically prompt the user to enter the Film Type whenever an 8x10 film cassette is inserted in the printer.
- ◆ Added new Density Calibration procedure for DirectVista™ Film that allows the optical density of film prints to be adjusted from the front panel to match specific density values as measured by the user's densitometer.
- ◆ Added a new front panel menu option to set the **LUT** (look-up table) of DirectVista™ Film to either **VISUAL** or **LINEAR**.

READY → MEDIA → (GRAY)DV → LUT → **LINEAR**
→ **VISUAL**

- ◆ Added a single floppy software recovery capability to restore printer software from a backup copy stored on the hard drive. The Recovery Diskette allows fast and easy restoration of the printer operating software and user settings in the event of hard drive data corruption.
- ◆ Changed internal print engine control software to greatly improve printer reliability.
- ◆ Changed software to ignore the setting of the media type slider on 8x10 cassettes and always assume 8x10 media. This prevents problems when the slider is accidentally set to **OPT1** or **OPT2**.
- ◆ Changed DirectVista™ Film LUT's (look-up tables) to improve the dynamic range of grayscale densities on film prints.
- ◆ Changed DirectVista™ Film Type settings to provide additional

setting values for improve handling of density variations from lot-to-lot of film.

- ◆ Changed **stat** program to display more information about the printer including: Network Subnet, Broadcast Address, Ethernet Interface Connector and Speed, Updates Installed, Media LUT's, DV-Film and DV-Paper Types.
- ◆ Changed standard test print to allow more room for expanded status information.
- ◆ Changed front panel message handling to automatically rotate LCD messages and limit transitory messages such as DICOM RECEIVING to 30 seconds of display time. This will prevent transitory status messages from remaining on the front panel indefinitely.
- ◆ Changed FTP, LPR, EtherTalk and ImageWeb to handle whitespaces and illegal characters in filenames, usernames and hostnames.
- ◆ Changed EtherTalk to start-up only when a valid Postscript Key is installed on the printer.
- ◆ Changed Update Diskette and FTP Update handling to ignore updates for releases prior to 3.0.0. If an attempt is made to install an old update on the printer, the message **OLD UPDATE** will be displayed and the update request is ignored.
- ◆ Changed device 0 to prevent invalid data from changing image settings. This solves the problem of accidentally sending Postscript images to device 0 and changing image settings.
- ◆ Changed the front panel message displayed on power-up, when waiting for SPARC to finished booting to: **IOCB READY/ WAITING ON SPARC**. If this message remains on the front panel more than 10 minutes, then the SPARC failed to boot. The recovery disk can help when this happens.
- ◆ Updated production tools on printer to include **addkey -tph** to query the NVRAM on the actual printhead and set the "99" key.
- ◆ Updated DEFF processing to correct a problem that caused images to be missed or printed out of order from 3.5-inch MO media.
- ◆ Fixed numerous ImageWeb problems.
- ◆ Removed online manuals from ImageWeb. This was done to save space in the floppy diskette distribution. Online manuals will be provided as a separate update in the future.
- ◆ Removed the **NETS** from under the **NETWORK** menu. Only the default **GATEWAY** is supported for network routing.

Technical Support

Codonics offers technical support via telephone, email and website. For the latest drivers, updates and technical briefs, please consult the website. Telephone support is available during the hours:

8:30AM - 5:30PM EST, Monday - Friday (Holidays excluded)

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