

EP-1000™ Print Drivers for Windows®

Release Notes

EP-1000 Print Drivers v1.2.0

The EP-1000 Print Drivers provide support for standard Windows applications to print using Microsoft Windows® 2000, XP and NT operating systems.

Summary

The EP-1000 Medical Imager produces diagnostic hardcopy images on Codonics A-size and A4-size ChromaVista® Color Paper media. The EP-1000 Print Drivers provide a printing interface for Windows 2000, XP and NT applications.

Features

This section details the standard features of the EP-1000 Print Drivers.

- ◆ **Support for Microsoft Windows 2000, XP and NT.** The print driver is distributed in a single .EXE file that can be installed on Microsoft Windows 2000, XP or NT operating systems.
- ◆ **Support for A-size and A4-size color paper.** The EP-1000 print driver supports both A-size and A4-size color paper media. Supported medias include Codonics A-size ChromaVista® Paper and A4-size ChromaVista® Paper.
- ◆ **Support for EP-1000 Network Interface Module.** The print driver is designed to communicate with the EP-1000 using the Network Interface Module. The driver is capable of supporting the maximum throughput of the Network Interface Module (900K Bytes/second).
- ◆ **Error reporting.** The print driver provides basic error reporting when data is not longer able to be sent to the EP-1000. A dialog box will appear when an error occurs to inform the user what action is needed to resolve the error.
- ◆ **Print driver settings for Image Adjustment.** The print driver provides settings for Gamma, Contrast, Saturation and MCM (Medical Color Matching) under the "Printer Feature" section of the "Advanced" driver configuration dialog box. These settings allow the image to be adjusted for optimum image quality on color media.
- ◆ **Automatic removal of old print driver components.** The print driver installation procedure will automatically detect previously installed Codonics print drivers that can conflict with this driver. The installation procedure will ask the user to confirm removal of older components at the start of the installation procedure.

Changes Since v1.1.0

- ◆ **Added Windows NT Compatibility.** Original issue of EP-1000 Print Drivers could only be used with Windows 2000 and XP. Drivers now can be loaded on Windows NT systems. A new Tech Brief, 901-136-001 has been created to describe the installation process. The drivers have only been tested on Windows NT 4.0.
- ◆ **Added MCM 180.** This additional selection has been added to the MCM list. It was primarily developed to color match GE Xeleris workstations, but can be used in any application as a color match starting point.
- ◆ **Improvements to set-ep1000 utility.** The set-ep1000 utility, which is used to set up the supplied ethernet converter, was found to have problems when used in a direct connection, that is, point-to-point ethernet connection using a crossover network cable. The utility actually was successful in setting network parameters of the converter, but could under certain conditions report errors. That problem is eliminated with v1.2.0.

Known Issues

- ◆ **May fail to complete all copies of a multiple copy job.** This issue existed in v1.1.0 but was not recognized at the time of release. Under conditions of heavy use, the thermal print head of the printer may reach its maximum operating temperature. If so, the printer automatically enters a cool-down state to prevent damage to the print head. If a multiple copy job is in process when the printer enters its cool-down state, subsequent copies may not print. If this occurs, a pop-up box will appear on the host system notifying the operator. When the operator acknowledges this message by clicking on "OK" the job will be deleted.

A workaround for this situation would be to take the printer offline and manually print the remaining copies. This can be done because the previous copy will still be in the printer's page memory. Refer to the EP-1000 User's Manual for details on off-line manual printing.

- ◆ **EP-1000 fault conditions usually require a power cycle.** The EP-1000 and Network Interface Module can become unsynchronized when a printer fault condition occurs while a print job is being sent to the printer. The print driver will detect when this conditions occurs. The only

certain method to reset the EP-1000 is to cycle the power on the Network Interface Module power and EP-1000 imager. The print driver will display a dialog box describing the procedure and remove the current print job from the Windows print queue. The user will need to re-send the print job after the EP-1000 is restarted.

- ◆ **Problems with some applications that download fonts.** Several problems have been found with downloadable fonts when using CorelDRAW 10 and Adobe Acrobat Reader, version 5.0 and earlier. Some fonts do not print properly or do not print at all.
- ◆ **Imageable area of the media is reported smaller by the driver.** The print driver uses "points" (1/72 inch) to calculate the image area of the media. Because the printer uses a 314 dpi print head, the conversion from points to dpi results in truncation of several pixels. The following table shows the difference between the image area reported by the print driver and the actual image area supported by the printer.

Media	Print Driver	Actual
A-size ChromaVista Paper	2503 x 2952 pixels	2508 x 2954 pixels
A4-size ChromaVista Paper	2503 x 3131 pixels	2508 x 3134 pixels

Technical Support

For questions or problems with this print driver, please contact Codonics Technical Support department.

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