ZXP Series 8

Firmware Release V2.12.xx

Summary of Firmware Changes

Release Date: 03 June 2011

This firmware release is for use with the following printer models:

- ZXP Series 8 (Models Z81, Z82, Z83, Z84)
- ZXP Series 8 Secure Issuance (Models Z81, Z82)

Important

Installing FW V2.12.00 requires a two-step upgrade process when upgrading from FW V2.05.00 or earlier. The upgrade procedure is as follows:

Step 1: Upgrade to V2.11.00.

Step 2: Upgrade to V2.12.00.

IMPORTANT NOTE:

THERE MAY BE ISSUES IN DOWNLOADING AND INSTALLING THIS VERSION OF FIRMWARE VIA ETHERNET. IF AN ETHERNET FIRMWARE DOWNLOAD FAILS, PLEASE RETRY USING A DIRECT USB PRINTER CONNECTION.

The following changes have been made since the previous FW release (2.03.00 for ZXP Series 8, 2.05.00 for ZXP Series 8 Secure Issuance)

Peripheral boards:

- Halogen Lamp Controller Board firmware version 1.10.00
- Media Authentication Board firmware version 2.01.00
- Laminator Main Controller Board firmware version 1.06.00
- Laminator Media Authentication Board firmware version 2.01.00

New Features Supported

- 802.11b/g wireless network communications interface.

- Multi-home support for wired and wireless interfaces.

- Support for reject bin counting, alarm, display and clearing.

Performance Enhancements

- Improved DHCP usage.

- When encoding with the ISO magnetic encoder: If no data is to be encoded on tracks 2 & 3, these tracks can be turned off. This allows only track 1 to be encoded, preserving the pre-existing encoding on tracks 2&3.

- Improved OCP usage for setting IP Address, Netmask & Gateway.

- Added support of a 4th sharpening level called "low" which offers improved rendering of color fonts against non-white backgrounds.

- Added ability to set a Warm-up delay through the OCP so that the printer will not go Ready for 'N' minutes (0-15) after the transfer rollers are at temperature. This eliminates the potential for partial image transfer due to insufficient warm up.

Issues Fixed

- Improved restoration of parameters after firmware upgrade.

- Fixed extended character Ã (0xC3) in the OCP font table.

- Fix to allow mag track densities other than defaults to work correctly for encoding and reading.

- Allow first character of track data to be a space character.

- Corrected problem scenario where false laminator alarm could stop job processing.

- Identified and fixed a variety of firmware issues such as: buffer under-runs, buffer overruns and memory corruption.

- For laminator, changes were made to reduce the frequency of cutter stalls and card eject failures.

- Changes were made to correct card elevator stall with heavy springs installed - slower step rate for transfer station elevator motor.

- Corrected problem in which images are printed with used panels.

- Corrected problem in which Host Authentication & Passphrase are disabled after a FW Upgrade.

- Corrected problem observed with communication errors when USB & Wired Ethernet are both connected & jobs are sent to both.

- Corrected problem in which End of Laminate Roll was not detected correctly.

Other Notes:

Since the initial ZXP Series 8 product launch, a number of improvements to the design have been made. Since these are not documented in any one place they are listed below for reference:

Table 1 • Changes / Improvements

Issue	Change / Improvement	Date
Presence of Flash (transfer film residue). This is most noticeable when printing full edge-edge with darker colors. Noted primarily with first 10% of transfer film roll	Significant improvements were made with firmware modifications	6/2010
Image positioning - Occasional white line(s) at the top or bottom of the image	Corrected with firmware update & transfer station design changes	6/2010
OCP panel displays "Heating" and "Cooling" messages erroneously. This is primarily seen in countries with 240V and/or 60 Hz power systems	Minor hardware modifications were made to the Heater Controller Board (HCB). HCB Firmware improvements also made.	6/2010
High noise level during printing (note that this is not idle fan noise but rather the noise made during a print cycle)	Mechanical modifications were made to the design which resulted in a 38% noise level reduction from 73 dB to 66 dB.	6/2010
Card Warping (bending) beyond specification	For Mag. Cards a new YMCKI ribbon was introduced to inhibit (I) transfer over the mag. Stripe region. Transfer temperature and speed settings were fine-tuned	6/2010
Card scratching caused by input hopper gate.	A new roller feeder design was introduced which eliminates scratching	4/2010
Barcode Printing - Higher intensity for text makes barcodes hard to read	The capability was added to adjust the bias for text or barcode printing	6/2010
Mag. Encoding performance	Improved with new rollers and registration bar	6/2010
Transfer artifacts on mag. Stripes and contact chips	YMCKI ribbon was introduced to inhibit transfer over the mag. Stripe and/or contact chip regions.	6/2010