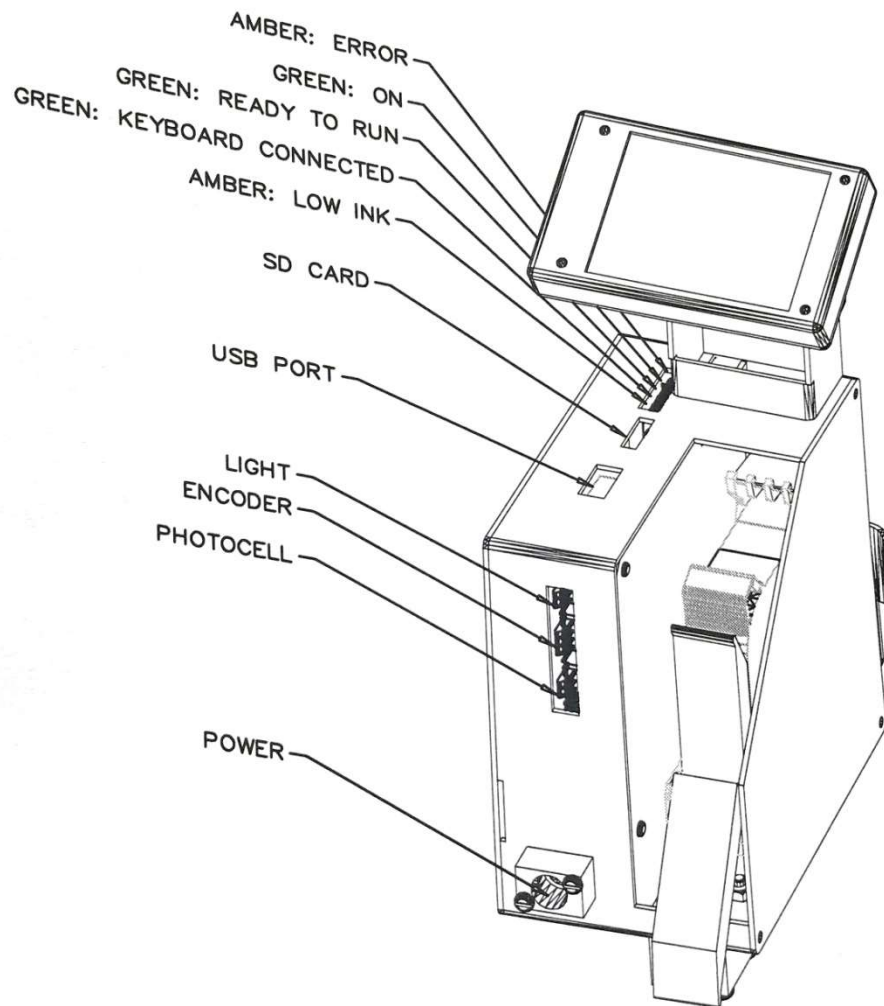


# Kiwi Matrix HD Ink Jet System



## A. Introduction and Power On

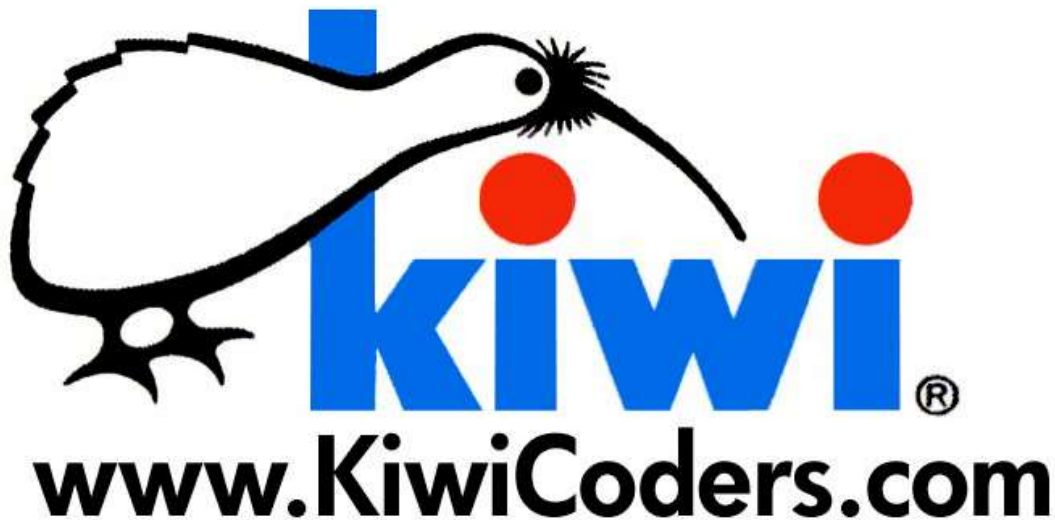
The *Kiwi Matrix HD Ink Jet System* allows the user to print messages that have been generated using the *MessageGen Application* on the PC. To edit or create messages, use the *MessageGen App* for the PC. Messages to be printed must be saved to the MicroSD Card and inserted.

Before powering on the *Kiwi Matrix HD Ink Jet System*, the user must ensure the following are connected:

- 1) Kiwi MicroSD Card
- 2) Encoder (for printing with external encoder)
- 3) Photocell (for external ToF trigger)

Powering on:

Connect the power cord to begin using the *Kiwi Matrix HD Ink Jet System*. When boot-up is complete, the user will be brought to the "Home" screen, where they will be able to select a message to print.



## B. Guide to Quick-Start Printing

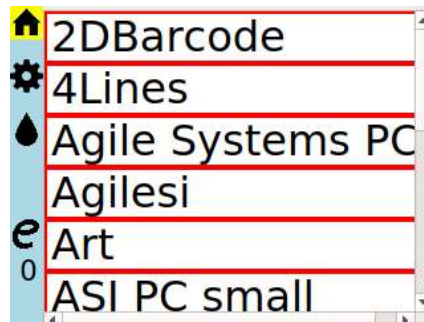
### Quick-start printing:

- 1) Power on the *Kiwi Matrix HD Ink Jet System*
- 2) If purchased and required for application connect external encoder to the printer and set wheel on conveyor.
- 3) Select the desired "Message File" to print.
- 4) Select "Print."
- 5) "End Job" can be selected to quit the print job.

## C. Kiwi Matrix HD Ink Jet System Menu Tree

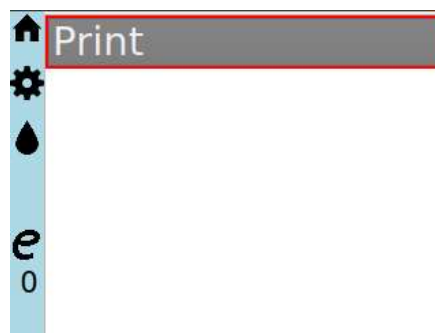
To traverse the **Kiwi Matrix Menu**, use the arrows on the keypad or the directional keys of a USB keyboard. For the keyboard to function, it must be plugged in prior to powering on the system. Note: Arrow keys may be used for traversing. To select an action or a setting, press the "Select" button on the keypad or press "Enter" using the keyboard.

Menu/Info Bar is the blue icon bar located at the left most portion of screen. It allows the user to navigate the menu tree from any page.



D.  Home is where all the saved Message Files can be found.


Selecting a Message File prompts the user to begin "Print."

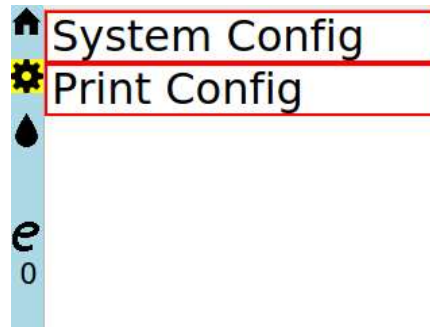


Print begins the print job. After starting a print, user is prompted with:

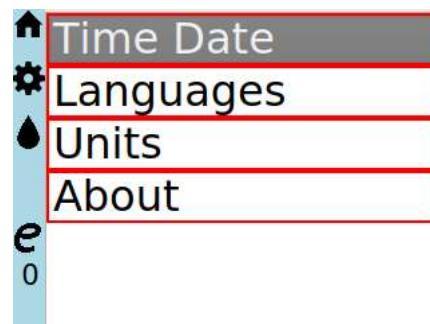
End Job will abort the current job

Edit allows the user to modify message text

**E.**  **Settings** represented by a gear wheel. Here, the user can modify Configurations for the System and for Printing.



**F.** **System Config** is where the user can access and change system settings.



Time Date is where the user can change the time and date on the printer which will be used for messages printing calendar and time objects.

Language is set to English.

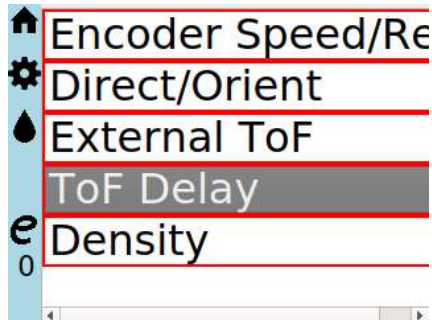
Units are set to Imperial.

About provides information on the *Version*, *Product Name*, *Serial Number*, and *Print Head Information*.

Print Head Info displays ink type and serial number.

System Restore will prompt the user for a factory reset. This will NOT erase messages but all settings and configurations will be restored.

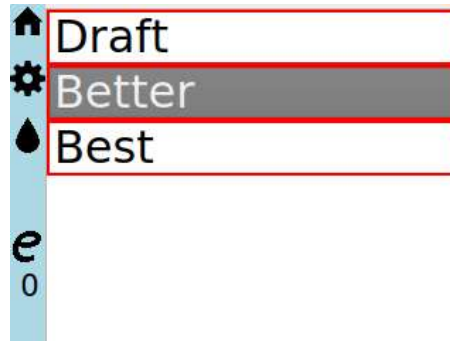
**G. Print Configuration** is where the user can change print related settings.



Direction/Orientation allows the user to change the direction and orientation of the image being printed. Please refer to the following table for the proper setting. If the sensor is on the wrong side or need to be changed. The sequence of the wiring from top to bottom is blue, black and brown.

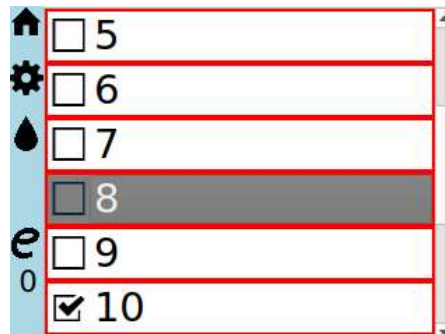
Paper Direction	Left-to-Right →	Right-to-Left ←
Forward	R	
Forward Upside-down	R	
Reverse		R
Reverse Upside-down		R

**H.** Encoder Speed/Res allows the user to select between using an Internal and External encoder. The external encoder requires an encoder wheel on the conveyor. It is the most accurate way to print



Internal encoder allows the user to print without using an encoder wheel. After selecting the print mode, user must then select the encoder speed.

Note: this mode is not recommended for barcodes. For printing with internal encoder, it is recommended that densities between 6.25-25% are used. This will remove any ghosting effect in the prints.



Internal Encoder Speed

Print Mode	Resolution	Max speed (inches/sec)	Max speed (feet/min)
Draft	300 dpi	36 inches/sec	180 ft/min
Better	600 dpi	18 inches/sec	90 ft/min
Best	1200 dpi	9 inches/sec	45 ft/min

**I. Density** allows the user to choose between 16 different densities ranging from 6.25-100%.

Note: for printing with internal encoder, it is recommended that densities between 6.25-25% are used. This will remove any ghosting effect in the prints.

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**J. Message Settings allows for editing Shift Codes and Rollover Hour**

Shift Code is a message object that changes based on what time the system is set to. Up to 5 shift codes may be created and each one may hold up to 4 characters. Under this branch of the Message Settings menu, users may edit shift codes and their designated printing times.

Ex: If shift "AB" is set to print at "14:00" and shift "YZ" is set to print at "17:00," the message with a shift code object will print "AB" from 14:00 to 16:59. At 17:00, the shift code will switch to "XY" and this will be the message printed until 13:59 the next day.

Rollover Hour is a message object that dictates what time the any calendar object in printed messages roll into the current date. Rollover Hours are configurable to half-hour increments.

Ex: If today is January 1<sup>st</sup> and the rollover hour is set to 5:00 AM, the printer will print "December 31<sup>st</sup>" until 4:49 AM. At 5:00 AM, the printer will begin printing the date "January 1<sup>st</sup>."

**K. Security allows for the user to lock or unlock message editing and changes to settings. The default passcode is "0000"**

Note: if the passcode is lost, the passcode may be reset by entering "argus" into the Change Passcode window.



Purge may be used to service the print head.



Encoder Info is represented by a Letter and a Number.

I/E - "Internal" or "External"

## - Encoder speed. Speed will read "0" prior to initiating the first print.



Print Head Status is displayed under the Encoder Info icon. If a valid print cartridge is sensed, the icon will display ink level. If no valid cartridge is detected, the icon displayed will be an "X" in a red circle.



## L. Default Configurations

Encoder: External. Better.

Maximum speed using "Better Mode" in this version is about inches/sec. For printing at a higher speed, switch to "Draft Mode" in "Print Config"

ToF: Internal. 2.5 inch trigger delay.

Density: 50%

## M. Notes

-Do not change any settings while in the middle of a print job. To change settings, ensure that a job is not running. Attempting to change settings during a job will result in no setting changes.

-USB keyboard must be connected prior to power-up.

-MicroSD card must be inserted to boot up the *Kiwi Matrix HD Ink Jet System*.

-Internal Encoder is not recommended for barcode printing.

-To track speed, ensure that the encoder wheel is set on the conveyor.

-If settings are not showing any sign of change while outside of a print job, ensure that security has been turned off to allow for settings changes.



