

# EVOLUTION III™

... from Marsh Micro Systems

## High Resolution Ink Jet Printer

**EVOLUTION III** takes High Resolution Ink Jet Printing to the next level. It features a 7 inch full color touch screen controller combined with a complete software package and the ability to print up to one inch high alpha/numeric characters as well as barcodes and graphics up to two inches in height. It includes a variety of font styles and sizes which can be used in a total print area of 2 inches high by 24 inches in length.

### A Complete System

**EVOLUTION III** is complete and ready to install right out of the box. The system includes a full color touch screen controller with stylus for message entry, one printhead module with internal product sensor, power supply for up to four printheads, and the mounting bracketry.

### Thermal Inkjet Technology by Hewlett Packard

Designed by Digital Design, the **EVOLUTION III** is powered with thermal ink jet technology (TIJ) by Hewlett Packard. This combination gives you the benefits of an affordable, compact, and efficient design coupled with the reliability of printhead technology by Hewlett Packard.

### Optimum Print Resolution

**EVOLUTION III** delivers bold, highly legible and fully formed characters in a print resolution of 300 dpi at production line speed of up to 200 feet per minute.

### Customized Print Area

Stitching four of the **EVOLUTION III** printheads gives you a total print area of 2" high by 24" long. Text, graphics and barcodes can be printed in any combination of font styles and character heights that are resident in the Evolution III controller.



Positioning of the text or graphics is easily accomplished by touching the screen with the stylus and creating either a text box or graphics area.

### Ink Supply

Built into the cartridge is a 42 cc ink supply. Once the ink in the cartridge is depleted, it can be taken out, disposed of and a new ink cartridge inserted in just minutes.



EVOLUTION III system with 4 printheads.

### Add-On Printheads

The **EVOLUTION III** is capable of controlling up to 8 printheads, with 4 on each side of the production line. The 4 printheads on the opposite of the line can only print the same message as those on the primary side. Each side of the production line will require a power supply and mounting bracket. One printhead module, mounting bracket and one power supply is included with the initial printer.

Adding another printhead is as simple as sliding it on. You can attach up to three additional printheads on a single bracket by inserting the dovetail slide on one into the dovetail slot on the other. Once the printheads are attached to one another, the optional printhead alignment tool can be used to align the printheads for stitching applications. A small RS 485 data cable is then used to connect the modules. This allows the touch screen controller to network all of the printheads on the production line.



### Font Styles Character Heights and Graphics

**EVOLUTION III** is supplied with four built in font styles. Optional alternative fonts are available and can be downloaded into the controller through flash card media.

Logos are another option, and up to 6 can be stored in the controller. Logos can be printed up to 2" in height.

There are 12 built in barcode symbologies included and can be printed up to 2" high. The barcode software in the controller allows you to set the quiet zone, bar width, inter-bar spacing, human readable information and more.

Up to 3 different barcodes can be printed within the same message.

# Technical Specifications

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## Complete Standard System Includes:

A 7 inch full color touch screen controller with stylus for message entry. One high resolution printhead module with power supply, Internal product sensor and complete mounting bracket for side coding applications.

## Standard Operating Features

Alpha/Numeric character set plus special characters  
Ability to control up to 8 printheads (4 on each side of production line)

Bracketry capable of mounting up to 4 printheads  
Print Resolution: 300dpi at 200 feet (61m) per minute

Font Styles: Arial, Swiss, Tahoma and Outline

Character Heights: 3/32" (2.4mm), 1/8" (3.2mm)  
7/32" (5.5mm), 1/2" (12.7mm)  
5/8" (15.9mm), 1" (25.4mm)

Message Area: 2" (50.8mm) high X 24" (609.6mm) long

Message Storage: Up to 325 messages in Controller

Message Backup via Data Flash Card

Multiple font styles and character heights in message

Programmable line speed

Programmable print direction

Programmable print delay

Inter-character spacing

Inverted printing

Automatic message repeat

Password protection

Variable time formats

Variable date formats

Sequential numbering

Shift coding

Date offset

Product counter

Flash Card read/write ability in Controller for Message Backup,

System Upgrades, downloads of optional fonts, logos and barcodes

One Serial RS 485 port and one Serial RS232 port, for communications to support OEM's and System Integrators

USB Port

Multiple language prompts: English, Spanish

## Ink Supply

Cartridge volume: 42ml

Porous Colors: Black, Blue, Red, Green, Yellow, UV Visible

Semi-Porous Colors: Black, Blue, Red

Low ink monitoring

## Power Required

110-240 VAC, 50-60Hz 0.5A

## Environmental

50F - 104F (10C - 40C)

Up to 80% RH non-condensing

## Production Speed

Up to 200 feet (61m) per minute @ 300dpi

## Physical Dimensions

Controller: 7.250" wide x 4.625" high x 1.312" deep

Printhead module: 2" wide x 4" deep x 3" high

## Standard Barcodes Included

I 2 of 5	Code 39
UPC-A	UPC-E
128 B	128 C
EAN 8	EAN 13
GS 1B	GS 1C
ITF 14	2D Data Matrix

## Hardware Options

Add-on High Resolution printhead modules

Mounting Bracket for opposite side of production line

Power Supply for opposite side of production line

Spring loaded carton follower (for up to 2 printheads in a non-stitching mode)

Top coding bracketry

Floor stand (for up to 2 printheads in a non-stitching mode)

External product sensor

External encoder

External low ink beacon

Ethernet Communication for linking to a host computer

8MB Data Flash Card for Logos and Message Storage

Backup

## Software Options

Alternative fonts: Downloadable via custom programmed flash card media

Logos: Ability to load up to 6 logos into the message

Downloadable via flash card media

Logos must be made to specific height required

Barcodes: Additional barcodes can be supplied as options

Evolution III Logo Download package to transfer logos, from

a PC to the controller or to a Data Flash Card

**EVOLUTION-NET** software for PC control of network (not yet available)

**Authorized EVOLUTION Distributor:**



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Sold and Serviced by: Marsh Micro Systems, Inc.

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