CleanCode EV1 & EV1 LX

SOFTWARE AND HARDWARE OPTIONS

EV1 & EV1 LX are low cost yet completely expandable high resolution printing systems. In their basic form, they are ideally suited to providing a simple product marking facility for porous and non-porous surfaces. However the addition of optional software enhancements take CleanCode from a simple system to one that rivals much higher priced hi-res, large character printers meant for secondary carton coding, as well as a viable alternative to small character DOD, continuous ink jet, and laser printers.

Optional Software Packages

A series of four Optional Software Packages have been developed for EV1 & EV1 LX. These packages give the end user the flexibility to add the functions required for particular applications. They are supplied on Data Flash Cards, and can be easily installed in the field or prior to shipping.

OPTIONAL SOFTWARE PACKAGE NO. 1

Message Storage: Allows the user to store up to 50 messages in the hand held controller. The stored messages include the text and the operating parameters such as line speed and print registration.

Automatic Message Repeat: Designed for those applications where a continuously repeating message is required. The distance between message repeats can be programmed through the controller to give varying distances of up to 500mm.

Password Protection: This feature gives a supervisor the ability to store a password into the controller to prevent unauthorised tampering with the message and the operating parameters of the system.

OPTIONAL SOFTWARE PACKAGE NO. 1.5

The standard maximum message length with EV1 & EV1 LX is one line of 24 characters, 12.7mm high or 48 characters, 5.5mm high (24 characters per line). This software package gives the user added message length capability and expands message storage.

Extended Message Length: Expands the maximum message length to one line of 48 characters 12.7mm high or 96 characters of 5.5mm height (48 characters per line).

Expanded Memory: Increases the message storage capacity to 99 including both the text and operating parameters. Messages are stored in the hand held controller.

OPTIONAL SOFTWARE PACKAGE NO. 2

Sequential Numbering: A user defined sequential numbering counter is added with this option. Sequential numbering can start at any number up to a maximum of 9 digits. Example: 0000 (start), 9999 (end and resets to 0000)

Variable Date Formats: Can be represented in a numerical (25/05/09) or alphabetical (25 May 2009) format and Julian Date format. The formats can be arranged to print dd/mm/yy or mm/dd/yy. The ability to print only the month and year, or other combinations are totally programmable. Delimiters (: / .) are selectable.

Variable Time Formats: 24 hour style time numbering in hours and minutes (14:45) can be entered into the message for more precise production tracking. Time can be printed in hours and minutes, hours only or minutes only. Delimiters (: / .) are selectable. Optional Software Package No. 2 also includes all of the software features that are contained in option packages 1 and 1.5.

OPTIONAL SOFTWARE PACKAGE NO. 3

This package adds shift coding and offset date capabilities.

Shift Coding: Allows the user to break the day into a maximum of 6 individual shifts and will print either a single number or alpha character to identify each shift.

Date Offset: Designed for the automatic rollover of dates. The user can program in up to 999 days and the printer will automatically advance the date by that value.

Product Counter: The ability to count the number of products printed within a programmed time period. Optional Software Package No. 3 also includes all of the software features that are contained in option packages 1, 1.5 and 2.

To load Data Flash Card into Print Head Module:
1. Insert Data Flash Card into slot on top of Print Head Module
2. Press F4 key on Hand Held Controller
3. Press option 4 (LOAD CARD)
4. Press appropriate number key to load Fonts, Logos, or Options
5. LED's on Print Head Module will flash indicating card is loading
6. Display will indicate that the Data Flash Card was loaded
7. Remove Data Flash Card from module and replace in this folder
8. Write S/N of Print Head Module below

S/N _____

ALTERNATIVE FONTS

EV1 & EV1 LX printers come equipped with one font style in character heights of 12.7mm and 5.5mm. Alternative font styles and character heights can be ordered to suit the application. Fonts are supplied on Data Flash Cards and are downloaded into the printhead module in the same manner as the software packages.

LOGOS

The ability to print up to three logos in either the one line or two line mode is a standard feature on all CleanCode printers. The logo is simply a bitmap file and can contain anything from multiple lines of text to intricate graphics or barcodes.

Logos are supplied on Data Flash Card ready to be downloaded into the printhead module.

Example of single line (12.7mm height) logos and text:

Example of dual line logos and text:

LOT 793G42   ⧗ OCT 22, 2011
24 UNITS 4 SIX PACKS 143589

DOWNLOAD PACKAGE

Logos can created in any graphic program that is capable of producing a 2-bit black and white logo in BMP format. The optional Logo Download Package gives the ability to download the BMP file directly to the printhead module or Data Flash Card installed in the print head module.

Two versions of the package are available. A software only version or a complete version which includes the software, an RS232 to RS485 converter (printhead modules only accept RS485 data signals) and cables.

EV-NET SOFTWARE

EV-Net is a PC resident package that gives the user complete control of all of the EV printers within the manufacturing area. Messages can be created, printers monitored and more all from a central location. Due to the varying distances, all interconnect cables are optional.
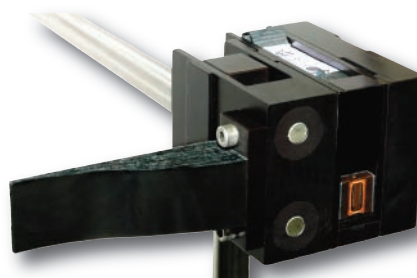
HARDWARE OPTIONS

Printhead Modules: EV printers are supplied with one printhead module. If the requirement calls for additional lines of text or if prints are needed on both sides of a carton for example, additional printhead modules can be added to the system.

Top Coding Bracketry: An additional 90 degree bracket should the standard bracket not allow the printer to face in the correct direction when installed.

Floor Stand: A floor stand can be used as a portable base for the printer to move it to different production lines.

Spring Loaded Carton Follower: A printhead breakaway feature is standard on EV printers. However if cartons are frequently misaligned as they travel down the conveyor the carton follower can prevent damage

to the printhead module by moving it backward while still maintaining the proper print distance. The spring loaded feature returns it to the original position when the carton has passed.

External Product Sensor: If the application is printing onto a web or if graphics on the carton prevent the built in product sensor from reading the carton properly, the external product sensor can be positioned to overcome these difficulties.

External Encoder: Graphics and barcodes require production line speeds that do not vary. If they do, the graphic will be either condensed or elongated depending on how the speed changes. To prevent this, an optional encoder measures the varying speed of the line and provides accurate timing pulses to the printhead module to give the perfect print every time.

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