VECTOR XII MODULAR PRINTING SYSTEM

Out With The Old, In With The New.

More Options For Making Your Mark

Squid Ink's Vector XII modular ink jet printing system allows manufacturers and contract packagers to print up to 12 lines of code at a cost-effective price. Squid Ink lets you have it your way: standard dot matrix characters, or Squid Ink's innovative, new hi-definition characters. Dot matrix characters are the industry standard for ink jet coding. Hi-definition characters are bolder, easier to read, and can be seen accurately from greater distances. In addition, users can select between water-based systems for printing on porous surfaces like corrugated cases, or solvent-based systems for printing on non-porous products like plastics, metals or more. No matter what product you need to print, Vector XII has the functionality to get the job done right.

Out With The Old, In With The New

Vector XII is an innovative new replacement for the Marsh® ML8 or Patrion™ systems, Diagraph Series One™ or Telemark™ systems, and Videojet Maxum™ printing systems. If your operation is struggling to maintain outdated printing equipment or are frustrated with manufacturers who no longer support this equipment, be sure to give us a call. You will be pleasantly surprised to find the new level of quality and performance offered by the Vector XII.

User Flexibility

Vector XII users have the option of choosing from several different printhead combinations. Two different printhead sizes are available: 1″ or 1 3/4″ character height. Each printhead is capable of printing at 100%, 40%, or 26% character height, offering six print sizes ranging from 1/2″ to 1 3/4″. Users also have the flexibility to run up to 6 different printheads of any size at the same time. No other system has this versatility. All of these components are field installable for future upgrade to meet your application's changing requirements. And unlike any other DOD printing system in the industry, Vector XII offers up to 12 lines of print from a single controller.

User-Friendly System

The Vector XII is designed for simple day-to-day operation. Vector XII's state-of-the-art input device provides quick and easy message programming and retrieval for up to 128 messages. Resident software accessed from the hand-held input device walks users through a series of prompts to program and save each message for printing on-demand. The system can also be programmed and maintained with a PC through a standard RS-232 port. Vector XII's easy-to-use design and user-friendly software makes everyone involved a smooth operator.

Innovative Technology, Proven Reliability

Patented micro-channeling printhead technology eliminates the need for a costly array of fluid valves. Squid Ink uses its own plunger technology and distributes ink through a series of channels, keeping production and maintenance costs to a minimum, especially when compared to the costly valve technology common in most ink jet printers today.

Less Maintenance = Less Downtime

The Vector XII is engineered inside and out for industrial-strength operation. Status LED's verify proper operation of the power supply and CPU boards. Industrial-strength enclosures and dust/moisture-resistant-coated steel cabinetry ensure continuous operation in harsh, real world environments. Easy-to-install replacement printheads and PC boards minimize downtime and eliminate costly service calls. Best of all, the Vector XII utilizes Squid Ink's patented SQ-60™ no-clog ink, allowing users to leave the ink in their printheads for an extended period of time without flushing or cleaning—making it the most cost-effective, low maintenance ink jet printing system in its class.

GO WITH THE FLOW.
SQUID INK® MANUFACTURING

VECTOR XII

MODULAR PRINTING SYSTEM

Vector XII System Components

- Controller cabinet
- Ink delivery system
- Up to 6 printheads and printhead mounting brackets
- Printhead data cables and ink line kits
- Photocell product sensor and photocell mounting bracket
- Industrial-strength hand-held input device

Vector XII utilizes water-based or solvent-based inks for printing on a wide range of porous and non-porous surfaces.

Users can run up to 12 lines of print from a single controller.

Versatile controller design allows users to upgrade or replace PC boards within minutes.

Vector XII ink delivery system allows printing with water-based or solvent-based ink.

Vector XII System Specifications

Print Type **-** Large character dot matrix ink jet printing system

Printhead Options **-** Users have the option to use up to:

- Six V-1600 Series Printheads, or
- Six V-1600HD Series Printheads

Character Sizes **-**

V-1600 Series Printheads (16-channel dot matrix characters)

- 1.75″ (4.45cm) at 100% 16 dot height, 0.70″ (1.77cm) at 40% 7 dot height, or 0.46″ (1.16cm) at 26% 5 dot height with split-line capability to print two lines of text
- 1.0″ (2.54cm) at 100% 16 dot height, 0.40″ (1.01cm) at 40% 7 dot height, or 0.27″ (0.68cm) at 26% 5 dot height with split-line capability to print two lines of text

V-1600HD Series Printheads (32-channel hi-definition characters)

- 1.75″ (4.45cm) at 100% 16 dot height, 0.70″ (1.77cm) at 40% 7 dot height, or 0.46″ (1.16cm) at 26% 5 dot height with split-line capability to print two lines of text

Character Set **-** 61 character ASCII set

Print Speed **-** 20 feet/minute (6.1m/minute) to 300 feet/minute (91.44m/minute) line speed depending on message length

Message Length **-** 128-character length per message per board pack; 128 memory locations

Communication **-** RS-232C, 9600 baud, 8 data bits, 1 start, 1 stop, asynch

Software Features **-** Counter, lot counter, 24-hour clock, 8-or 12-hour programmable shift code, Julian date, 3-letter month name, 3-letter weekday name, expiration date, expiration month, expiration day, expiration year, expiration Julian date

Operating Features **-** Dot size, print delay, character width, character boldness, photocell on/off/repeat/encoder input, invert print, reverse print, purge routine

Encoder Output **-** Resident software allows communication with shaft encoder

Component Modularity **-** Eliminates the need for costly service calls and minimizes downtime; printheads and components can be replaced in less than 5 minutes

Printhead Dimensions **-** 2.5″ (6.4cm) H x 1.5″ (3.8cm) W x 7″ (17.8cm) L; dimensions are for the printhead only—an additional 3″ (7.6cm) is needed for the ink line and printhead cabling

Product Sensor **-** Diffuse beam photocell (20v) or hardware sinking signal, other photocell options available upon request

Electrical Requirements **-** 90 - 240 VAC, 50/60Hz, 8 amp

Cabinet Construction **-** Industrial-gauge-coated steel

Operating Environment **-** 30°F (0°C) to 122°F (50°C)

Substrate Capabilities **-** Porous or non-porous substrate printing capability, specify at time of order

Ink Volume **-** 5-gallon (18.93 liter) pail or 17-gallon (64.35 liter) returnable container

Vector XII Optional Accessories

Spare Parts Kit **-** Includes spare printhead, board assembly, data cable, ink line kit and master cap

Starter Kit **-** Includes ink, cleaner for flushing the system, spray bottle for cleaner, hand cleaner, printhead wipes and 70mm cap wrench

PC Software **-** Communications software for PC integration

Shaft Encoder **-** Allows operation with variable-speed conveying systems

Bar Code Laser Scanner **-** Allows scan and print message retrieval

Low Ink Light Beacon **-** Beacon notifies users of low-ink situations

Turbo-Dri Drying System **-** Facilitates quick drying on non-porous surfaces

Floor Stand **-** Includes mounting bracket and legs with leveling feet, 57″ (1.5m) total height

Installation and Training **-** On-site installation and training available

Marking the future of on-demand printing®

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