

PRINT- & VERIFICATION SOLUTIONS FOR THE PHARMA INDUSTRY

'ALL-IN-ONE':
PRINTER - CONTROLLER - SOFTWARE - CAMERA



Inkjet
Technology by 
invent

GAMP
21 CFR part 11
e-Pedigree
LOG
Datamatrix GS1
OCR-B
Shift Codes
Database-connection



HSA A UNIQUE IMPRINT
SYSTEMS

HSAJET®

PHARMACEUTICAL PRINTING SOLUTIONS



HSA Systems introduces a new “All-in-one” printing and verification system:

The system is designed specifically for the pharmaceutical industry.

All functionalities are integrated into the central controller unit (TIPC15).

The TIPC15 handles all tasks from creating and printing of messages to verification of bar codes and OCR with cameras as well as diverting rejected products.

Integrated Printer Controller unit

The TIPC15 is an integrated printer controller, which controls up to 4 HP pens (2”). The encoder and product sensor are connected directly to the TIPC15.

The controller provides trigger signals to downstream cameras and diverters eliminating the need for additional product detect sensors.

In addition to Ethernet LAN communication the TIPC15 includes input and output “handshake” signals for communicating with external controlling devices such as PLC’s.

The TIPC15 is also available for panel mounting.

PHARMACEUTICAL PRINT & VISION CONTROLLER TIPC15

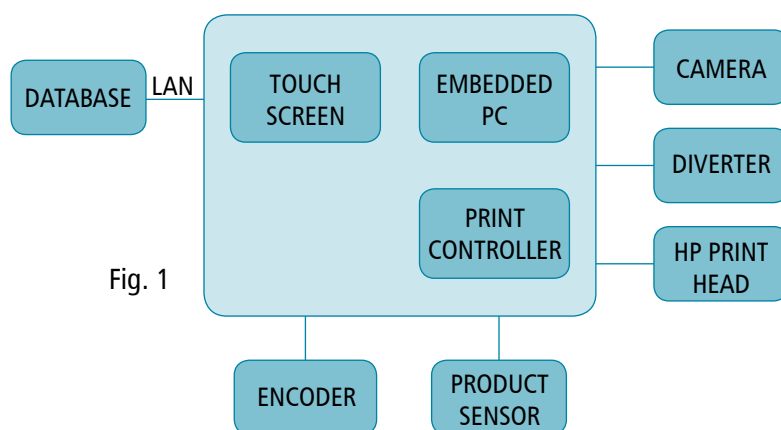


Fig. 1

Control via Network (Fig. 1)

The TIPC15 central controller incorporates a Windows driven PC and a 15" touch screen in one sealed IP65 unit. The TIPC15 manages all aspects of the Pharmaceutical Print & Vision System using intuitive ICON based user interface software that makes system operation simple.

Databases can be connected or downloaded to the HSA Pharmaceutical printing system via Local Area Network (LAN).

Ethernet (LAN) protocol provides remote access to many of the printer's functions. For example you can read log files with shift-codes, determine the number of prints, download jobs and many other functions.

Pharmaceutical printing solution is controlled via touch interface

Intuitive icon based touch screen interface makes it easy- to-use.

Industrial casing

The black anodized aluminium frame and stainless steel casing around the controller provide the extra protection needed in industrial environments.

Print heads

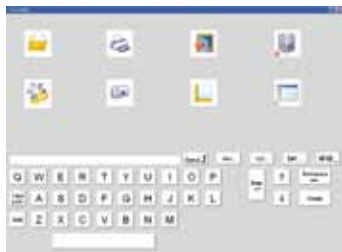
The TIPC15 controls up to 2" of print height (4 HP Pens). The availability of different print head styles makes the system usable in a variety of applications printing horizontally or down.

Software

The Pharma INKdraw software is for use in the pharmaceutical industry. Easy job set-up includes Datamatrix codes to GS1 standard.



Main Menu



Here you select a file to print or activate the camera software.

Datamatrix Setup



This menu allows you to create settings for reading Datamatrix codes.

Zone Marking



Here you determine what bar codes and/or text the system will read/verify.

OCR Setup



Choose the text language or set up language specific characters.

Camera

HSA Systems uses cameras from Imaging Source.

Imaging Source provides cameras with different resolutions (640x480, 1024x768, 1280x960). You can communicate with the cameras via USB or Firewire.

Imaging Source cameras are available with automatic zoom. All camera controls are performed on the TIPC15 touch screen.



Inks for the Pharmaceutical Industry

The pharmaceutical industry needs to print on a variety of different substrates which requires a wide selection of inks. HSA Systems offers a range of inks each performing optimally on specific substrates used in the pharmaceutical industry.

We use HP inks, and we also have close relationships with HP approved ink manufacturers such as Collins Ink and General. Our feedback to these manufacturers is part of their decision making for product improvements and for the development of new inks for specific applications.



HP TIJ 2.5 KEY FEATURES

- Cost-effective: No warm-up cycle and no down time
- Easy to use: No special training required to operate and maintain thermal inkjet printers
- Fast: Hundreds of tiny nozzles firing at high frequency allows high-quality printing at high speeds
- Reliable: TIJ is less sensitive to air bubbles in the firing chamber than other printing technologies, avoiding print quality problems and delays caused by trapped air
- Flexible: Supports a wide variety of media
- High quality: TIJ places smaller drops more accurately, producing consistently superb image and text quality
- Environmentally safe: With thermal inkjet, there is no need for service technicians qualified to handle volatile solvents, and no noxious fumes
- Lower cost of ownership: A thermal inkjet printer can cost much less than other printing equipment, reducing the market entry cost

HSA SYSTEMS

Global Network

Our products and services are available through our offices in Denmark and France as well as a global network of distributors and integrators in other countries. Additionally HSA Systems Inc., based in Atlanta, Georgia, USA has recently been established to offer an additional level of support for our customers in the USA. Thanks to these partners, HSA Systems is supplying stand-alone printing systems and integrated solutions to companies around the world.

Service & Support

HSA Systems understands the need for timely support in today's demanding world. Therefore, every organization supplying our equipment is required to have factory trained technicians to provide immediate assistance as needed. Furthermore the factory is available always for additional support.

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