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**inc.jet Software Solutions**  
*Design, Control and Monitor*



## inc.jet Software Solutions: *Simple design, impressive results.*

### From design to print

A full understanding of the print industry, its applications and the constant need for precision enables inc.jet to offer highly flexible and customizable software solutions. Whether it requires intricate variable data printing, or simply static print, inc.jet has the solution that helps to design, build and maintain consistency.

inc.jet's hardware print solutions are designed to be tough, robust and built for ultimate flexibility and productivity; the software is no different. Integrated seamlessly together, it creates and implements highly customizable print solutions. And with a diverse set of control methods, users can effortlessly design, control and monitor even the most complex print applications in a manner that suits the specific application.





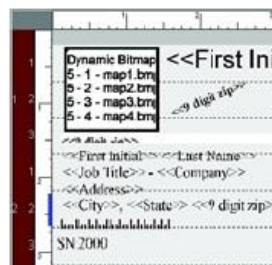
## Complete control desired effect

Setting up a print job shouldn't be a difficult task; inc.jet software solutions provide the operator with user friendly screens and layouts that make set-up effortless. The inc.jet GUI puts three of the most important elements at the hands of operator: the ability to Design, Monitor and Control the print job.

### Design

The GUI features multiple design tools, creating a wide set of possibilities for print layouts. Supporting both fixed and variable data, it is highly adaptable to any given print job. Standard Windows tools such as drag and drop, together with straightforward insertion of linked database files, fixed text or images and barcodes, makes creation a breeze. It's a simple matter of designing the form, inserting all the individual print elements, and ensuring a data stream for variable data. The inc.jet design GUI fully supports:

- Number generators
- Bitmaps and dynamic bitmaps
- Text
- Barcodes
- Field blocks
- Indicia



### Monitor

Monitoring is achieved in real time with the inc.jet GUI. Specific activities and key figures can be viewed, highlighting to the operator what is being printed and where, if any, errors are occurring.

The GUI also monitors key measurement data such as ink usage, cost per piece and remaining ink within each cartridge, permitting users to maximize output and keep costs measurable and manageable at all times.

- Ink estimates including pages-to-empty
- Print job statistics
- Real-time log files detailing every action for error trapping and verification



### Control

From cleaning and calibration of the imagers to starting and stopping the job itself, the GUI controls all aspects of the print job from set up to final print. And with varying levels of control that can be assigned to individuals, management of critical set up and design elements can be dictated at will, ensuring continuing consistency of the final print.

- Full control via software screens
- Save, load and edit capabilities
- Simple configuration and setup of print imagers

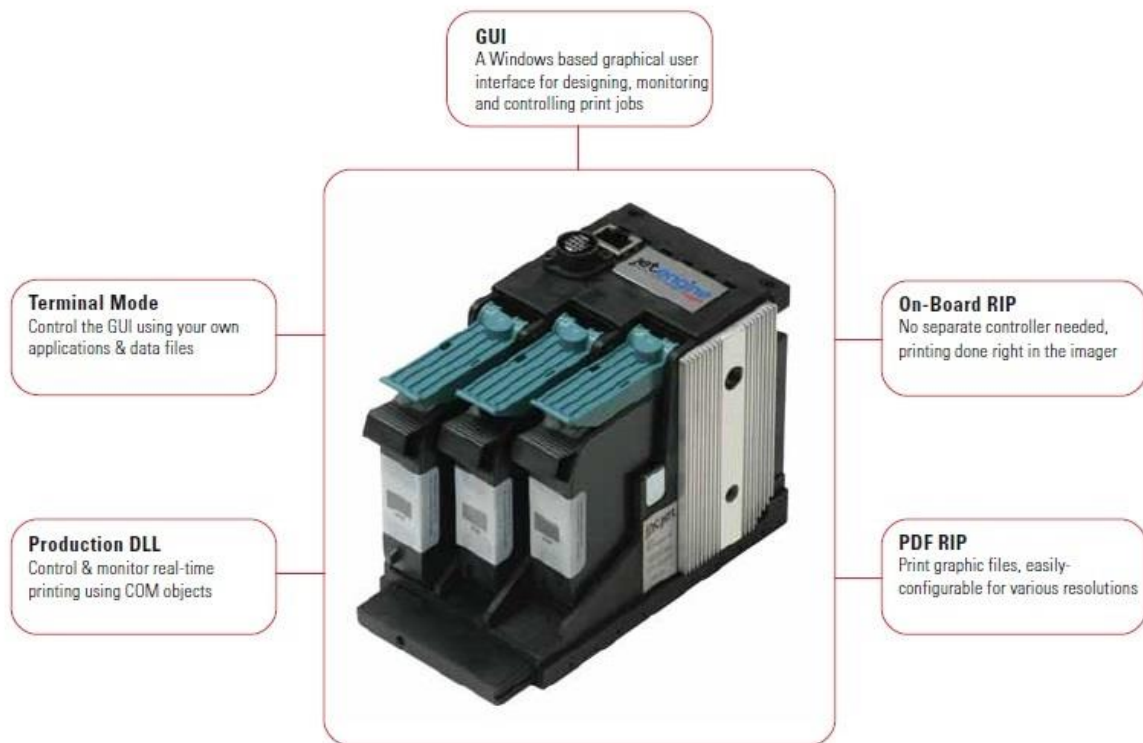


## inc.jet Software Solutions: *Interactive monitor and control.*

### High speed, high resolution

The brain behind inc.jet's printing solutions is the GUI. Based on a familiar Windows architecture, there is no programming expertise required from the user. Intuitive controls and design processes allow for rapid and simple creation of custom print jobs and their subsequent control and monitoring.

With the ability to directly communicate with the jet.engine, these software applications allow for customer- and product-specific print jobs.





## Interfacing options for true flexibility

inc.jet provides more than the GUI for controlling the print imagers. There are other options available to the integrator to access the sophisticated control and monitoring capabilities.

### Terminal Mode

Using remote control codes, the Terminal Mode option makes controlling the GUI using other applications and data files possible. This is ideal where software, other than inc.jet's, is required to control and monitor the print imagers.



*Incorporating Terminal Mode into mail finishing equipment allowed this manufacturer to personalize and add custom information to each packet, making the process more efficient and customer focused.*

### Production DLL

For advanced integrators, who have developed or wish to develop their own software interfaces, inc.jet offers DLL access which can be used to control and monitor real-time printing on a jet.engine system communicating over Ethernet.



*Individual software was created specifically for a print application using Production DLL, allowing a lumber processor to create and print wood grades on a wide variety of irregular shapes and sizes.*

### On-Board RIP

When print jobs remain the same with few if any changes, inc.jet offers On-Board RIP, an add-in that allows the print layout to be loaded directly into the jet.engine via an Ethernet connection. The jet.engine can be completely disconnected from the GUI after set up; the freedom to directly print fixed and/or variable data without having to control the process.



*On-Board RIP enabled loading and storing dynamic and static data directly into the jet.engine print-head, making it possible to run repetitive print jobs without requiring a physical network communication.*

### PDF RIP

Where graphic files are the preferred print format, inc.jet can provide software which allows direct print from these files. PDF RIP can print both normal and secure PDF files, saving time and further simplifying print jobs.



*By adding PDF RIP to their current digital printing system, a ticket printing manufacturer readily configured their varied print jobs to different resolutions, dimensions and grey scale levels.*

# inc.jet Software Solutions: *Intelligence applied.*

## Building intelligent print application

inc.jet has taken control and monitoring of print solutions to the next level with control.tower software. Building on the existing GUI, highly complex processes can now be readily integrated together to print, monitor and verify finished applications, turning “dumb” machinery into highly intelligent systems.

**control.tower**—a software solution designed to help create an intelligent process whereby your print job can be tracked to ensure product integrity. Providing real-time report logs to the user, and diverting bad products without affecting the print job, creates an easy to use, reliable, print solution.

control.tower consists of three easy to use applications—with a fourth option to enhance capabilities. These applications read, track and verify products from print set up all the way to the finished product.

The screenshot shows the Configuration Editor window with the following settings:

Category	Property	Value
Automatic Move	NextConveyor	(None)
	Continuous Conveyor	
Display	Length	74
	Direction	RightToLeft
Error Handling	Name	NetJet Base
	Type	Continuous
Indexing Conveyor	IndexCount	0
	IndexLength	0
Measurements	ProductLength	9
	ToleranceInInche	2
Misc	Enabled	True
	Referenced Objects	
Settings	NextConveyorPos	0
	PositionSensor	ProxSensor2
	PrecedingConveyor	Take Away
ClearImagerBuffer		False

The schematic diagram on the right shows a 'Divert' component connected to an 'ADUCo' component.



## Read

Using a barcode or optical scanner, the "read" function converts and sends plain text to the software. The plain text is communicated to the print head, signaling the next data to print. The reader can be set for Data, Key or Index mode, identifying the file type being printed and its location. By providing this detailed information, control.tower creates direct, easy, communication with the print engine, which knows exactly what is next to be printed.



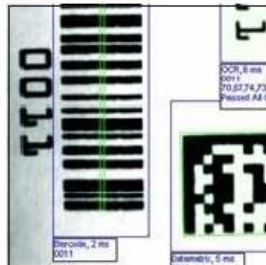
## Track

The use of sensors, based on intelligence such as conveyor speed, monitor the products from start to end. Users can view exactly where the product is located, while written logs display detailed progress of the items. The tracking device can be used to trigger a diverter, update a product's position or signal that the product is ready to be printed, depending on the location of the sensor. By identifying the exact position of a product throughout the job, determines whether the process is quick and efficient.



## Verify

Scanners are used in the verifying process, allowing the operator to make a direct comparison between the data scanned and the data printed. This also helps to ensure that the output is legible. If not, this product will be diverted and a message sent to the user signifying that the product was rejected. No illegible data will ever pass inspection, helping save time and money since there is no unnecessary follow up required. And, even if a product is unidentifiable and has been rejected, the printing order will not be disrupted. It will continue to print the next item, but notify the operator that one unit was diverted.



## View

Vision System gives you the capability of knowing the data has been printed properly, by allowing you to see it. This extra feature—which incorporates a built-in camera—provides the chance to see the data prior to it leaving the machine. Being able to make a side by side comparisons between data sent and data printed, ensures that the data was printed accurately and meets the quality that is demanded.





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