

**ami**

Automated Marking, Inc.

# THE CURE HR

UV CURABLE HI-RES PRINT SOLUTIONS

A CAMI™ PRO PRODUCT

FOR ALL COMMERCIAL PRINT APPLICATIONS



**CAMI**™  
CODING AND MARKING  
INTELLIGENCE

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## 2.1" UV Curable Inkjet Solution

The high resolution **Cure HR** printer provides a versatile, cost-effective solution to meet the need for variable data printing on a range of coated and uncoated substrates. Capable of printing addresses, barcodes, 2D codes, QR codes, numbering, logos and graphics, the **Cure HR** is suitable for mailing and addressing applications, as well as labels, tickets, security, plastic cards and business form applications. The very small footprint and modular design of the **Cure HR** means that it is easily and quickly integrated into mailing lines, webs and card lines. With all the printer electronics and ink delivery systems built into the Printhead assembly, it is designed for maximum uptime.

## One print solution, multiple applications

### NUMBERING

Sequential numbers can be printed almost anywhere on a sheet or form and can be positioned horizontally or vertically. The Cure HR's high speed capabilities and crisp printing allow for perfect numbering in applications such as ticketing, lottery tickets and much more. At speeds in excess of 1000 feet per minute the Cure HR is more than qualified to produce high efficiency prints.

### PHARMA

The high resolution the Cure HR printer provides a versatile, cost-effective solution to meet the need for variable data printing on a range of coated and uncoated substrates. Printing with UV curable inks, all marking is crystal clear, highly durable and permeant, ensuring that key codes are always presented perfectly every time, whether for aesthetic or regulatory reasons.



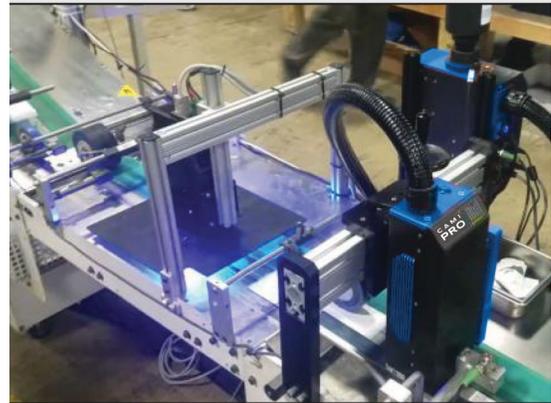
### CARD PRINTING

The Cure HR, with its 2.1" print width, is optimized for printing cards utilizing its multiple drop capabilities to get the very best quality together with solid durability. The combination of sophisticated hardware and software allow the user to print barcodes from light to heavy, meeting all of today's changing requirements.



### ADDRESSING

Reduced cost per mark, higher throughput and a wider variety of printable substrates give the Cure HR print solutions a significant improvement over standard Thermal InkJet solutions in the Addressing marketplace. Matched with a proven I/O capability to control feeders, diverts, lamps and more, the Cure HR is a solid performer.



# Outperforming the rest

A smaller footprint, higher throughput, lower costs and proven technologies, the Cure HR is a solid performer in the graphics and mail markets. Its clean design, simple to operate interface and low maintenance process ensure a short learning curve and rapid implementation of any new installation.

## HIGH QUALITY, HIGH SPEED

The Cure HR supports up to a 600 dpi resolution giving you maximum quality at all times; there is little that cannot be printed with incredible sharpness. For all your graphics and mail applications the Cure HR is capable of ultra fast speeds to meet your productivity goals.



Horizontal Resolution	Max Speed *	
	m/min	ft/min
600	137	450
300	274	900
150	356	1200

\* speeds will vary with ink type and drop size

## PREMIUM CAPABILITY, AT A LOWER COST

Print shops are constantly striving to remain competitive and differentiate themselves. The Cure HR printer allows them to stay ahead of the market by implementing a highly cost effective print solution.

The Cure HR's initial cost is significantly lower than other solutions, but goes beyond just a hardware cost. Factoring in reduced maintenance, efficient use of inks, and reliability, the Cure HR has a low Total Cost of Ownership.

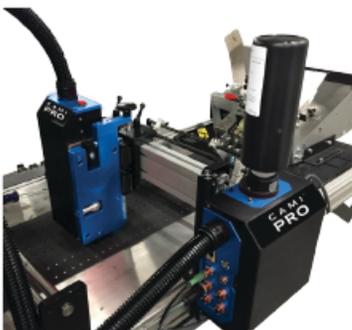
This decrease in cost does not come at reduced capability or quality. The Cure HR is a solid performer capable of very high throughputs and incredible clarity and durability of print.



## COMPACT SIZE

One of the key design mandates for the Cure HR was a small footprint. Not only is the Printhead compact, so is the interface enclosure. For the first time, trying to find space on your equipment for bulky ink handling systems and print heads is no longer a concern.

When utilizing multiple heads to get wider format capability this is especially important and the Cure HR is a solid winner ensuring that whatever available space you have, the Cure HR can fit!



### Minimal Footprint

Head: 12.4" x 3.8" x 6.5"

Enclosure: 12.1" x 5.7" x 8.1"

## EASE OF USE

With decades of experience in the graphics and mail markets, AMI has a wealth of knowledge to build on in developing print solutions that are simple to integrate and easy to operate. In fact, the Piezo based Cure HR is as easy to use as a TIJ based printer.



**Start up**—Print ready can be achieved within five minutes, and job changeover is possible within seconds.

**Print head purging**—With print head mounting brackets moving between offline purging and printer ready position, fast make ready can be achieved effortlessly.

**Power/Ink Empty LED**

Indicates system power (green) and ink empty (red)

**Ethernet Port**

Communication port. TCP/IP 1000BaseT

**Power On/Off**

Soft on/off button

**Sensor**

12V PNP sensor signal

**Encoder**

12V PNP, dual channel 300 ppi encoder

**Ink Supply**

1 liter bottle, with non-spill cap

**RFID Reader**

CAMI PRO

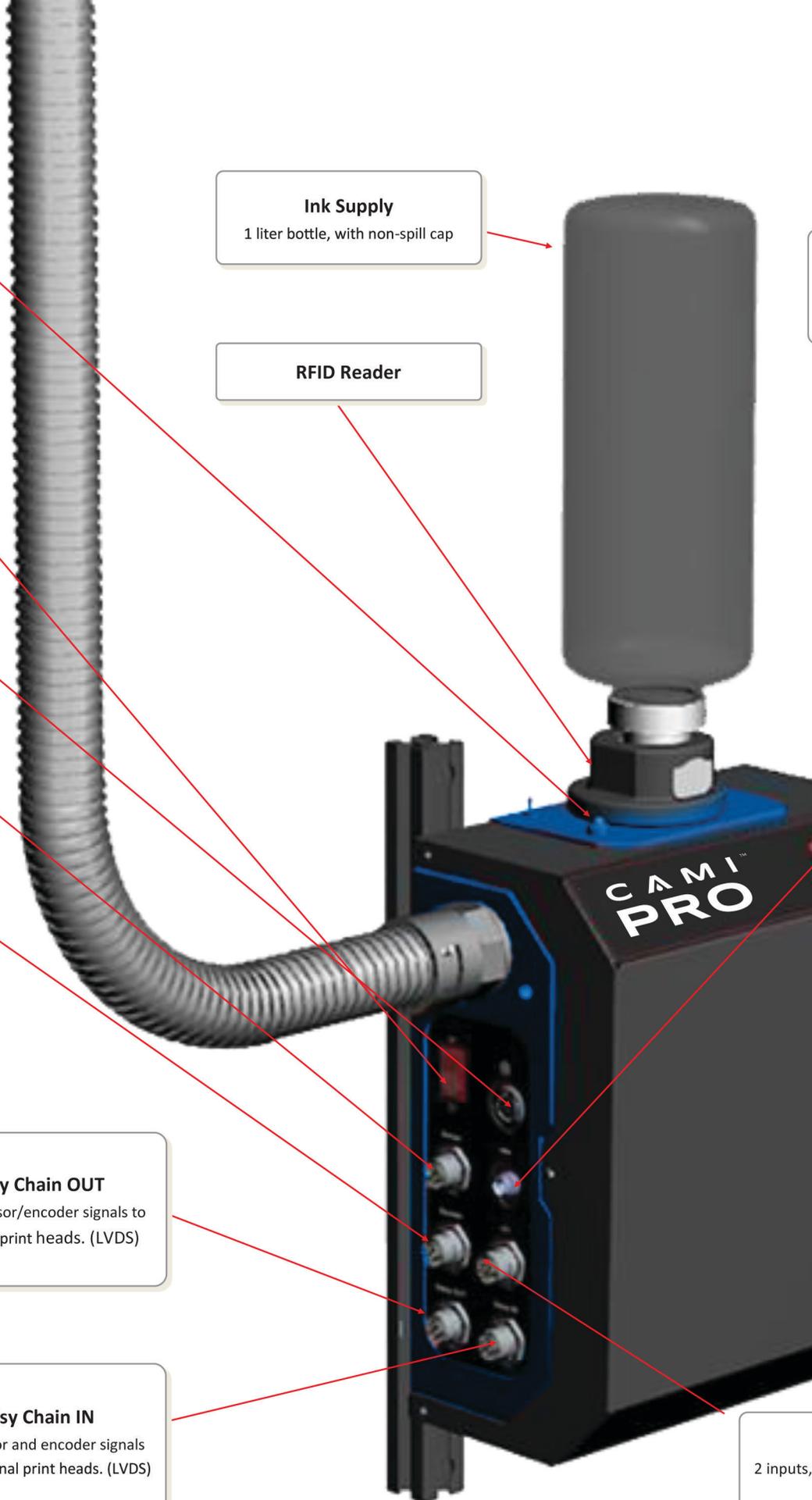
**Daisy Chain OUT**

Carries sensor/encoder signals to additional print heads. (LVDS)

**Daisy Chain IN**

Takes sensor and encoder signals from additional print heads. (LVDS)

2 inputs,



**6 foot Umbilical**

Carries ink, power and electrical signals

**Purge Button**

Used for purging of the print head



**Power Connector**

24VDC/90W, Power Supply input

**Status LEDs**

System, Print, Encoder/Sensor, Pump, Pressure and Temperature status



**2.1" Print Head**

**Capping Clip**

Quick Snap print head nozzle cover for physical and cure protection

**I/O Connector**

3 outputs, strobe enabled for drop analysis



# Groundbreaking Design

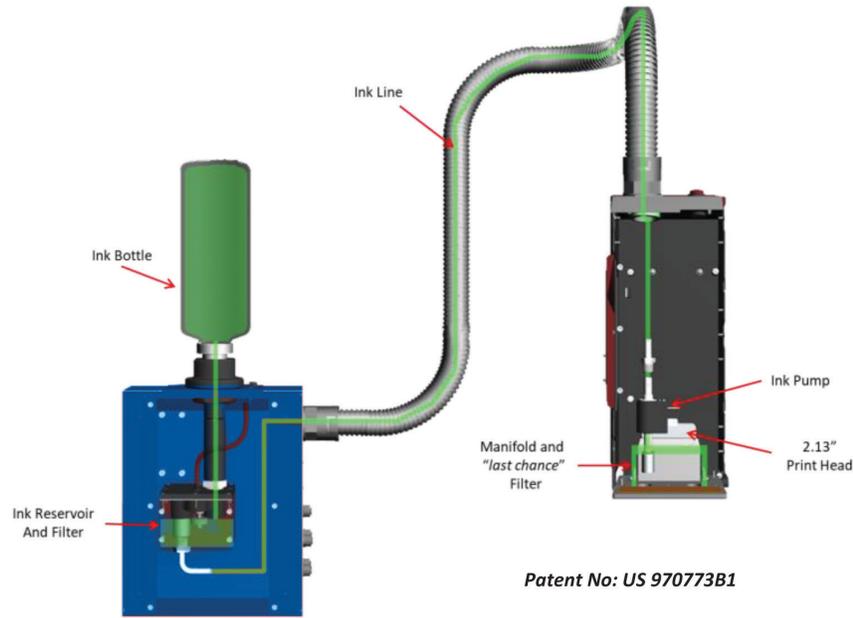
Simplicity is the key to the Cure HR Design. From the Patented Ink Delivery system to the Electronics, Housing and interface connectors, the Cure HR has been designed with ease of use in mind.

The Cure HR uses a single pump and sensor to measure the ink pressure and to pump the ink directly from the supply to the print head as ink is being consumed while printing. Since there is no air reservoir for meniscus control there are no issues with ink flow, or flooding air sensors or valves (there are none).

With the head mounted directly to the manifold, the design greatly reduces the number of connections, tubes and failure points where leaks can occur.

The Cure HR incorporates an integrated manifold heater that can preheat the ink before it reaches the head allowing the ink to flow better and operate much more reliably at higher speeds, resulting in less nozzle outs.

The head can be changed in the field without disassembling the ink delivery system and or any of the ink delivery connections. The system can be installed, primed and operational in less than 1 hour.



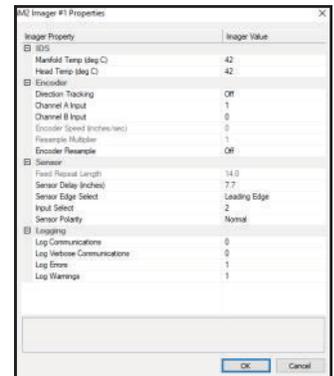
# Software that Delivers

The Cure HR has multiple capabilities regarding software. It ships with a standard GUI based upon the proven AMI software, or alternatively, it can be supplied with a set of tools to enable custom software development.

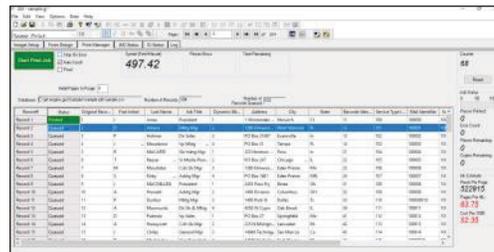
With the standard GUI, you can be up and running within minutes from design of the basic job template to hitting the Start button and being in production! Bring in databases and easily build a template that fully utilizes the power of dynamic text, bitmaps, counters and so much more. Insert Lot codes, expiry dates and any of over 100 different barcodes.

There are tens of thousands of solid high performing installations of this software installed globally, so there is never a fear of poorly developed software that doesn't have the flexibility and power you need. Proven over and over again to perform.

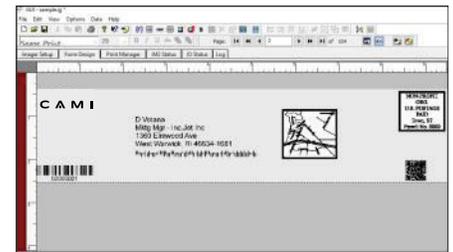
The software is a proven enterprise level solution that will help you monitor, manage and maximize your print stream. And what's more, its completely free with eternal updates!



Setup is Simple



Run Screen with full database capability

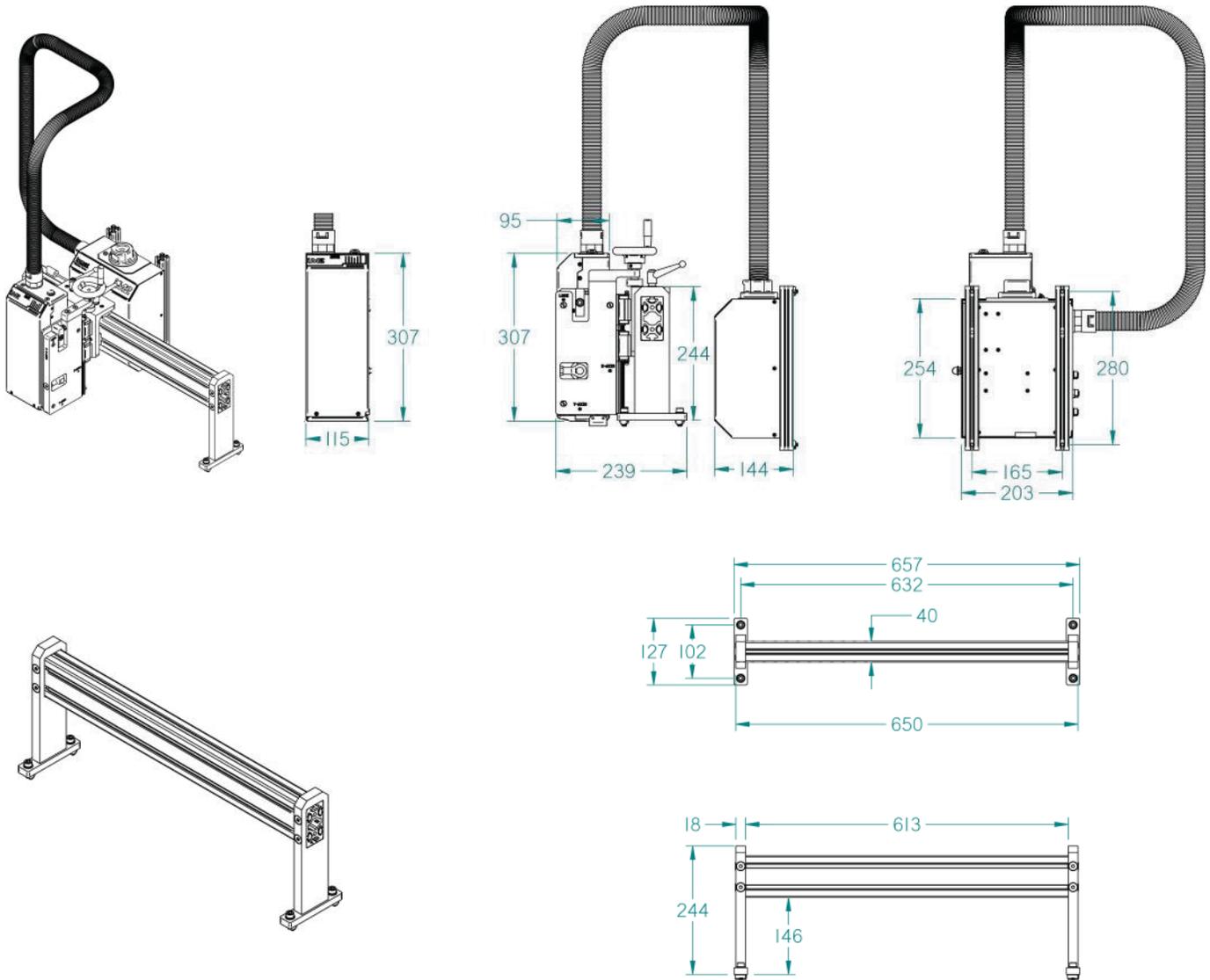


WYSIWYG monitoring

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## Technical Specifications



All dimensions in mm

Signal Description	Quantity
Print Width	2.13"/54.1mm
Resolution	600 dpi
No of Drops	1 to 3
Drop Level (1/2/3)	7 pl / 14 pl / 24 pl
Frequency Response	60 kHz
Custom Colors	Yes
Smallest readable font size	3pt

Signal Description	Quantity
Print Speed @ 150dpi	1200 fpm (356 mpm)
Print Speed @ 300dpi	900 fpm (274 mpm)
Print Speed @ 600dpi	450 fpm (137 mpm)
Ink Types	UV
Jetting Technology	Piezo DoD
Communication	Ethernet
Power Requirement	240/115 V AC



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