



# ICE Viper+.

## Thermal Inkjet.

Designed to address the needs of industrial users, the ICE Viper is the ideal coding and marking solution for a range of primary and secondary marking applications. The ICE Viper thermal inkjet (TIJ) printer features a large touchscreen interface for easy operation, as well as provides a common look and feel to those familiar with ICE CLARiTY®-based printers. From basic alphanumeric codes to complex bar codes and graphics, the ICE Viper has the capability to print a wide range of codes on fast production lines.



### Uptime Advantage

- Extensive communications protocol ideal for remote control and secondary applications
- Solid-state electronics with no moving parts
- No wear items or replacement parts outside of inkjet cartridge replacement
- Clean, no -mess operation

### Built in Productivity

- High resolution print (up to 600 dpi) suitable for high quality, small and large font codes
- Wide range of primary and secondary packaging bar codes
- Can drive up to four printheads independently or together

### Code Assurance

- Template creation software with rules-based message fields
- Color touch screen with WYSIWYG image display to reduce set-up errors
- Optional USB scanner for message selection

### Simple Usability

- Intuitive, graphical user interface with easy to learn icon-based controls
- All common operations accessed in five or fewer touches
- Four printhead designs to aid packaging line integration

# ICE Viper+.

## Technical specifications.

### Line Speed / Resolution Capability

Maximum resolution of 600x600 dpi  
5-250fpm (1.5-75mpm) at 600x240 dpi  
*Higher line speeds are possible at lower horizontal print resolutions*

### Printing Capabilities

Full downloadable font support using TrueType® fonts  
Fixed, variable and merged text fields  
Flexible date/time and shift code formats  
Auto best before date calculations  
Auto incrementing/decrementing text and counters  
Multiple graphic formats supported (up to maximum print area)

### Bar Codes

EAN8, EAN13, UPC-A/E, CODE 39, CODE128, EAN128, GS1 Data-Bar (including 2D composite), DataMatrix, QR, PDF417

### Print Cartridge

Maximum of four 12.7mm tall, 600 dpi print cartridges (stacked/stitched or deployed independently)

### Display

8.4-inch TFT SVGA (800x800) full-color LCD and touch screen  
WYSIWYG print preview  
Full on-board diagnostics  
Three levels of password protection or advanced configurable password protection  
Extensive language support (22 in total)

### Data Interface

RS232, Ethernet, USB memory stick support, Text Communications Protocols

### Controller Dimensions

9.6" (244mm) long  
3.6" (92mm) wide  
6.7" (170mm) high  
Dimensions exclude printhead, accessory cables and power supply connections

### Printhead Dimensions

Four printhead options are available with different dimensions to meet line integration requirements. The following dimensions are for the Standard Blue printhead:

4.5" (115 mm) long  
4.3" (110 mm) high  
2.4" (60 mm) wide (at rub plate)

*Dimensions exclude cartridge and cable connections*

*Red, Green, and Gold printhead dimensions vary in length and height from Blue printhead*

### Temperature Range

41°F to 113°F (5°C to 45°C)

### Electrical Requirements

100-240 VAC 50/60Hz

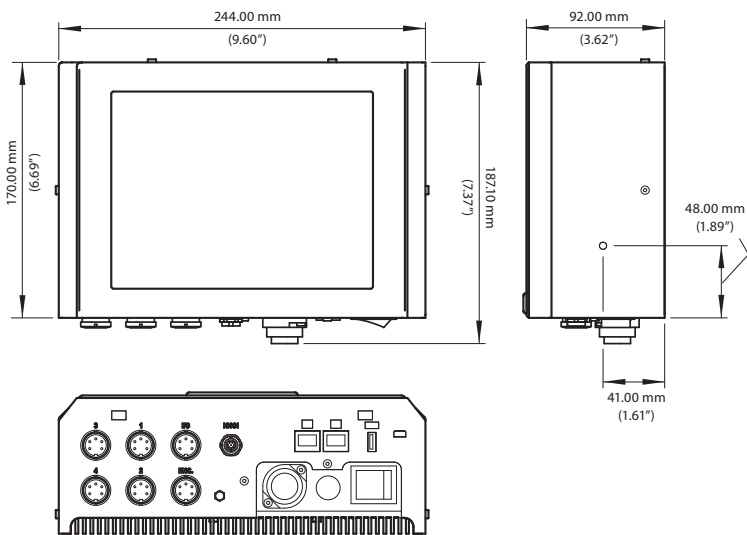
### Approximate Weight (Controller)

7.0lbs (3.2kgs)

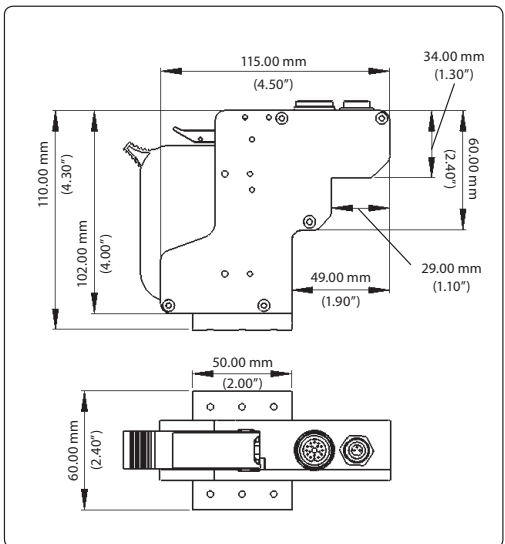
CERTIFIED  
ISO 9001  
DOCUMENTED QUALITY



Controller



Standard Blue Printhead



# ICE Viper+.




## Print sample guide.

### Clear, consistent codes

The ICE Viper printers are among the highest resolution industrial Inkjet printers in the market. This is accomplished through the use of HP thermal Inkjet cartridges, which have a maximum print resolution of 600 x 600 dpi. High resolution means clear, easy to read alphanumeric characters, while enabling more complex coding options and the ability to print 1-dimensional bar codes (UPC, GS1 128), alternate fonts, logos, and the increasingly popular 2-dimensional codes such as GS1 DataMatrix and Quick Response (QR) codes. The benefits do not stop there. Because the cartridge contains the printhead and ink supply, there is no costly maintenance associated with pumps, filters, or tubing. There are no messy ink changes or nozzle wash-down procedures. Ultimately, the simple design translates to easy operation through fast cartridge replacement. The ICE Viper thermal Inkjet printers meet the needs of a variety of applications.



### Consumption Chart

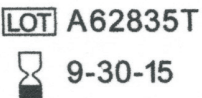
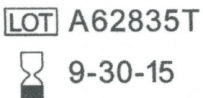


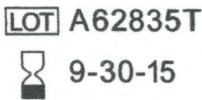
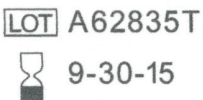
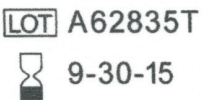
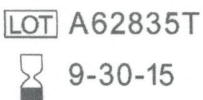
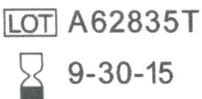
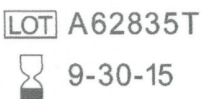
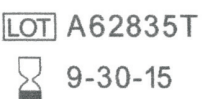
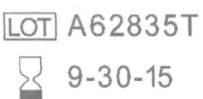
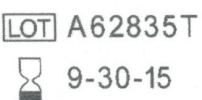
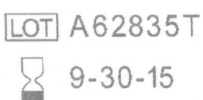
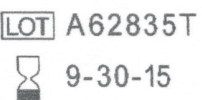
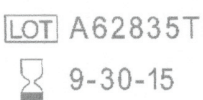
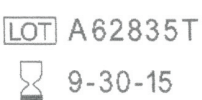

Font Height (mm)	Code Dimension	Approx. Number of Codes Per Cartridge	Print Sample
3.0	3 x 21	538,000	9-30-2015
3.0	3 x 32	359,000	EXP 9-30-2015
3.0	7 x 20	269,000	9-30-2015 A62835T
3.0	7 x 32	186,000	EXP 9-30-2015 LOT A62835T
2.0	9 x 39	124,000	 GTIN 03453120000011 EXP 09-25-15 LOT ABCD1234
2.5	12.7 x 36	56,000	 2 94761 52937 9
1.8	12.7 x 70	27,000	 (10)0114254(99)11:21

All samples shown above were printed at 300 x 300 dpi with Premium Black ink (part # WLK660068).  
Ink consumption varies based on the print resolution selected.

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## Line speed vs. horizontal resolution of ICE Viper printer.

The maximum line speed of ICE Viper printers is determined only by the horizontal resolution setting of the code printed. The code height is a function of the number of printheads selected, and is independent of the production line speed. See chart below for details. Regardless of whether the code is a single line of text, multiple lines of text, tall bar codes, complex graphics, or any combination thereof, productivity will never be compromised by the amount of content required in the code.
























Vertical Resolution (dpi)				Max Line Speed (feet/min.)	Max Print Height (inches/mm)	
Horizontal Resolution (dpi)		600	300		ICE Viper	
	600			100		
	450			130		
	360			160		
	300			200		
	240			250		
	200			300		
	180			330		
	150			400		

All samples shown above were printed with Premium Black ink (part # WLK660068). 300 x 300 dpi represents the industry standard for coding primary packaging. Typical dry times are 1-2 seconds. While print resolutions below 300 x 300 dpi may improve the dry time, increasing the print resolution may result in longer dry times. Please contact your Videojet representative for a complimentary evaluation.

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## Line speed vs. horizontal resolution of ICE Viper printer.

Capabilities to meet just about any specification – including bar codes, fonts, graphics and more.

Description	Print Sample
<b>Linear bar codes</b> <b>Wide range of bar codes for automatic identification. UPC A&amp;E; EAN 8 &amp; 13; Code 128 A, B&amp;C; UCC/EAN 128; Code 39; Interleaved 2 of 5.</b> <i>(Samples shown were printed at 300 x 300 dpi using Premium Black ink)</i>	 1234 5670 <b>EAN 8</b>  1 234567 890128 <b>EAN 13</b>  1234567890 <b>EAN 128</b>  1234567890 <b>Code 39</b>  1 23456 78901 2 <b>UPC-A</b>  1234567890 <b>Codabar</b>
<b>2D codes</b> <b>Wide range of standard 2D and rectangular 2D DataMatrix, including GS1</b> <i>(Samples shown were printed at 300 x 300 dpi using Premium Black ink)</i>  <i>Note: Not all 2D codes available on all printers</i>	       <b>DataMatrix</b> <b>QR Code</b>  (01)12345678901237 (17)110718 <b>GS1 Databar - Stacked</b>  (01)12345678901237 (17)110718 <b>GS1 Databar - Limited</b>  <b>MicroPDF 417</b>
<b>Logos and graphics</b>	      
<b>Font sizes</b> <b>User-defined font sizes are fully adjustable. All TrueType® fonts available on 8510 / m600 touch.</b>	2mm Arial 3mm Arial 5mm Arial <b>12mm</b>
<b>Specialty fonts</b> <b>For use with Optical Character Recognition</b>	<b>Videojet Technologies</b> <b>OCR - A</b> <b>V i d e o j e t   T e c h n o l o g i e s</b> <b>OCR - B</b>