



Continuous Inkjet

# 1650 Ultra High Speed

Higher throughput targets, increasing regulatory and supply chain needs, and greater focus on operational efficiency all equate to increased demands on your production lines.

Superior speed in itself is worthless without high quality, accurate coding and high uptime. The Videojet 1650 UHS delivers against the demands on your production lines through a unique combination of design and advanced ink formulations. Combining the ultimate in print speed, the most innovative printhead technology, and the advanced CLARiTY™ interface, the Videojet 1650 UHS allows you to deliver more product with more code content – all while making sure the right code gets printed on the right product.



## High quality coding at high speeds

- Videojet's Precision Ink Drop™ system provides precise character formation, even at the highest speeds and longer throw distances
- Dynamic Calibration™ adjusts jetting parameters automatically to ensure high quality print
- Superior technology enables you to add content without compromising speed
  - Single line max speed = 1666 ft/min (508m/min)
  - Dual line max speed = 694 ft/min (212m/min)
  - Tri-line max speed = 588 ft/min (179m/min).

## Engineered for extended runs

The Videojet 1650 UHS gives you an uptime advantage via:

- CleanFlow™ technology resists ink buildup that can cause ordinary inkjet printers to shut down
- Long run time between preventive maintenance, up to 14,000 hour core life
- Internal pump means no external air, minimizing potential for contaminants to enter ink stream
- Auto cleaning printhead for fast start-ups even after extended shutdowns.

## Simple usability via an advanced user interface

- Productivity tools give you standard OEE metrics backed by actionable data
- Fool proof data entry helps you get the right code, in the right place, at the right time, virtually eliminating errors
- Large, responsive 10.4" touchscreen with intuitive navigation simplifies operation and makes key data easily visible.

# Videojet 1650 Ultra High Speed

## Continuous Inkjet

### Line speed capability

Can print 1 to 3 lines of print at speeds of up to:  
Single line max speed = 1666 ft/min (508m/min)  
Dual line max speed = 694 ft/min (212m/min)  
Tri-line max speed = 588 ft/min (179m/min)  
(10 characters per inch, single line of print)

### Font matrix configuration

Single-line: 4x5, 5x5, 4x7, 5x7, 7x9, 10x16  
Twin-line: 4x5, 5x5, 4x7, 5x7, 7x9  
Tri-line: 4x5, 5x5, 4x7, 5x7, 24 Drop Mixed Raster

### Linear bar codes\*

UPC A&E; EAN 8 & 13; Code 128 A, B & C; UCC/EAN 128;  
Code 39; Interleaved 2 of 5; 2D DataMatrix; GS1

### DataMatrix codes\*

Square Form up to 24x24; Rectangular Form up to 16x48

### Nominal character height

Selectable from 0.079" to 0.472" (2mm to 12mm), depending on font

### Throw distance

Optimal: 0.394" (10mm)  
Range: 0.197" to 0.591" (5mm to 15mm)

### User interface

10.4" high-response TFT-LCD touch screen  
WYSIWYG touch to edit message editing

### Custom logo/graphics

Can be created via optional CLARISOFT® software

### Character sets

Chinese, Russian/Bulgarian, Turkish/Scandinavian, Greek, Arabic, Japanese/Kanji, Hebrew, Korean, East European and European/American

### Languages and interface options

English, Arabic, Bulgarian, Czech, Danish, Dutch, Finnish, French, German, Greek, Hebrew, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Simple Chinese, Spanish, Swedish, Thai, Traditional Chinese, Turkish and Vietnamese

### Data interface

RS232 and Ethernet (standard)  
CLARISOFT/Clarinet® via ethernet  
Message management via USB

### Message storage

More than 250 complex messages

### Environmental protection

IP65 standard; no plant air required; stainless steel cabinet

### Printhead

Heated printhead  
Positive air (standard)  
Nozzle size: 50 micron  
Diameter: 1.63" (41.3mm)  
Length: 10.62" (269.8mm)

### Printhead umbilical

Ultra flexible  
Length: 9.84' (3m) optional 19.69' (6m)  
Diameter: 0.83" (21mm)  
Bend radius: 4.0" (101.6mm)

### Make-up fluid consumption

As low as 2.4ml/hour

### Fluids containers

Ink Smart Cartridge® 0.793 qt. (750ml)  
Make-up smart cartridge 0.793 qt. (750ml)  
Ink bulk system 5.28 qts. (5 liters)  
Make-up bulk system 5.28 qts. (5 liters)

### Temperature/humidity range

41°F to 113°F (5°C to 45°C)  
0% to 90% RH non-condensing  
With selected inks; actual installation may require additional hardware based on production environment conditions

### Electrical requirements

Nominal supply power 100-120 / 200-240 VAC at 50/60Hz.,  
120W peak maximum, 60W nominal

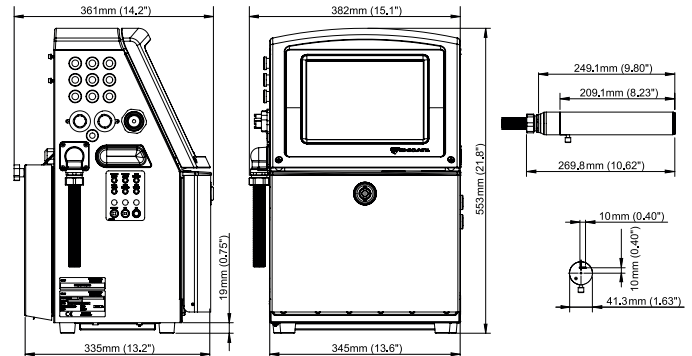
### Approximate weight

Unpacked and dry: 48.5 lbs. (22kg)

### Options

Dry air kit for high humidity (requires plant air)  
Wide range of accessories

\* CLARISOFT® Package Coding Design software required for bar codes and other advanced functionality.



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Part No. SL000562  
ss-1650uhs-en-sg-0816

