

# **LineMaster Fusion 3D**

Inline Solder Paste Inspection



## Ultimate Precision with State-of-the Art Usability



Unsurpassed Price-to-Performance



OnBoard Real-Time SPC Analytics



Best-in-Class Accuracy and Repeatability



Closed Loop Printer Feedback



5 Minute GerberPro Programming



Jetting Valves for Solder Paste & Adhesives





# Features & Specifications

### **Product Overview**

The LineMaster Fusion 3D® delivers high-speed 3D solder paste inspection at an unmatched price-to-performance ratio. Its simple-to-navigate user interface, rapid five-minute GerberPro® import programming, industry-leading sensor technology for the most accurate and precise results, and fully integrated SPC analytics make the LineMaster Fusion 3D the best choice for manufacturers looking to improve production yields and profits through an affordable post-print process control solution.

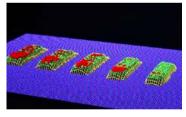
## **Advanced Statistical Analysis**

Fusion 3D's ASCan Ultra® software includes on-board SPC analytics, providing a powerful tool to help technicians control key stencil printing parameters. Data is collected, calculated, and charted in real-time for critical process analysis.

## **Photo-Realistic Profiling**

The LineMaster Fusion 3D<sup>®</sup> captures photo-realistic 3D color profiles for fast and accurate qualitative paste validation. Technicians may use these profiles to determine the root cause of the printing process-related defects and apply the appropriate corrective actions.





## **Universal Jetting Valves**

Optional jetting valves for Solder Paste, SMT glue, Adhesives, and more. From jetting solder paste for proto-type assembly to dispensing glue dots, the integration of the Vermes® valves provides an unbeatable value add proposition.

## Why Choose ASC

Established in 1992, ASC is the longest-standing independent SPI equipment manufacturer, providing cost-effective AOI/SPI solutions with unmatched customer service and support.

- Over 2700 successful machine installations worldwide
- Tailored solutions for maximum return on investment
- Commitment to 100% customer satisfaction
- Industry leading 3-year warranty

### **LineMaster Fusion 3D**

#### System Overview

Standard PCB Size 510 mm x 510 mm (20.0 x 20.0 in) Minimum PCB Size 25 mm x 25 mm (1.0 x 1.0 in) Maximum PCB Size 1220 mm x 610 mm (48.0 x 24.0 in) PC Controller Windows 10/11 Pro OS **Electrical Requirements** 100-240 VAC, 50-60 Hz, 2 Amps 15° - 28° C (60° - 82° F) **Ambient Operating Temperature Ambient Operating Humidity** <90%W non-condensing System Weight (un-crated) 432 Kg (950 lbs) System Weight (crated) 545 Kg (1200 lbs) Measurement Characteristics Height, Width, Area, Volume, Registration, Bridge Detection Realistic 3D Shape Detection Fully Integrated Real-Time SPC

SPC Charting/Data Reports:

## Sensor Capabilities

Sensor Technology Phase Shift Interferometry (PSI) 25-441 um (1-18.0 mils) Measurement Range Integral Video Camera High Resolution CCD Camera Field of View (FOV) 24 mm x 26 mm (0.95 x 1.05 in) Illumination LED-based White Light

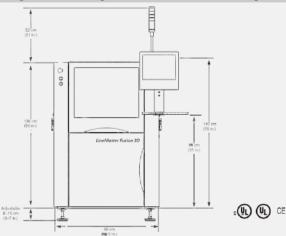
**Custom User Defined Reports** 

#### **Inspection Performance**

Inspection Speed 0.33 Sec/FOV Height Accuracy 1 μm (0.04 mils) <<10%, 6 σ Gauge R&R Height Resolution 0.125 µm (0.005 mils) Lateral Resolution (X-Y) 8 μm (0.3 mils) Minimum Paste Deposit 51 μm (2.0 mils)

#### **Options**

Offline Programming, Calibration Target, Solder Paste and Glue Jetting Head



System Dimensions: H: 200cm (78.7") W: 98cm (38.5") L: 125cm (49.2"







