



TECHNICAL DATASHEET

VINSPECT

by nutai

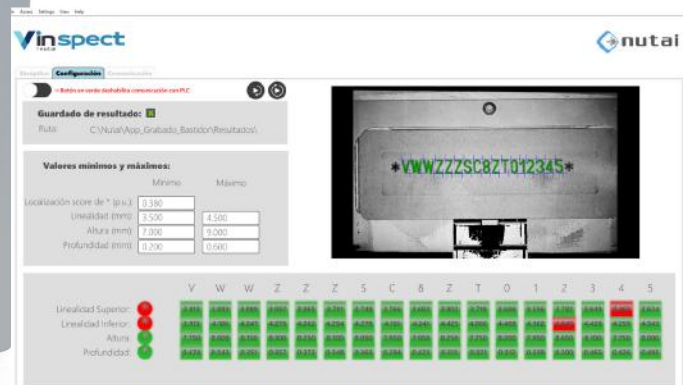
VINSPECT is an advanced vision system designed for the quality inspection and depth measurement of VIN markings.

It accurately verifies critical parameters such as character height, spacing, linearity, and overall marking consistency.

VINSPECT also features state-of-the-art Optical Character Verification (OCV) powered by AI, ensuring the highest standards in text validation and traceability.

IMPLEMENTED CONTROLS

- ✔ Interference control (for Robotic Integration)
- ✔ OCV
- ✔ Height control
- ✔ Linearity control
- ✔ Depth control



TECHNICAL DATA

HEAD SPECIFICATIONS: OPTICAL AND MECHANICAL

Average Acquisition and Processing Time	1s
XY Resolution	0.060 – 0.090 mm
Z Repeatability	4.7µm
Working Distance CD	165 mm
Measurement Range MR	110 mm
Field of View	71.0 x 98.0 x 100.0 x 154.0 mm
VDI/VDE Precision	0.035 mm
Dimensions	49 x 146 x 190 mm
Weight	1.7 Kg
Mounting Modes	Stationary or Robotic

ELECTRICAL SPECIFICATIONS OF THE CABINET

Screen type	Integrated
Computer	AI – Ready with GPU
Input Voltage	230 vac
Maximum Power	300 W
Dimensions	640 x 385 x 370 mm
Weight	10 kg
Connectivity	Ethernet/IP, Profinet

ARTIFICIAL VISION SPECIFICATIONS

Supported Marking Systems	Needle Drag, Micro Percussion, Laser
Vision Processing	AI – Based (For Localization and Reading)
Font Typography	Retrainable System for New Fonts