



Build Release Note

DOCUMENT NAME	Build Release Note for VeriSecure-2.0
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PROJECT	VERISECURE-2.0

DOCUMENT CONTROL INFORMATION			
DESCRIPTION	PREPARED BY (DATE)	REVIEWED BY (DATE)	APPROVED BY (DATE)
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*Stay Smart,
Stay Secure!*

1.0 Introduction

VeriSecure 2.0 is an advanced inspection system powered by AI and machine learning. It is vision-free, it does not rely on any third-party vision libraries or decoding tools. This gives full control, better customization, and improved reliability. The system uses high-resolution color cameras to inspect various types of codes **including:**

- 1D barcodes
- DataMatrix
- QR codes
- Pharma codes
- Logos/Patterns
- Text (via OCR)

It is designed to be installed on carton packing machines or conveyors and can provide real-time accept/reject signals to the machine controller. Each camera functions independently and supports integration with machine PLC for precise rejection.

Key Functionalities:

- ✓ Recipe/Product
- ✓ Batch Creation
- ✓ Real-time inspection and rejection
- ✓ AI-based Inspection
- ✓ Centralized user management
- ✓ Audit trail generation
- ✓ Production reporting
- ✓ 21 CFR Part 11 Compliance

2.0 Build Release Note Details

1.	NAME OF THE PROJECT	VeriSecure Inspection System
	VERSION NUMBER	5.2.0
2.	SUPPORTING SOFTWARE	<ul style="list-style-type: none"> • NI Labview 2020 Runtime • Python 3.11 • MVS SDK • MySql-8.0.13 • MySql-connector-odbc-8.0 • SQLyog 13.1.6 • Adobe Reader X <p>Note: All software used are of 64-bit</p>
3.	HARDWARE SUPPORTED	<ul style="list-style-type: none"> • Camera: 2.3 MP camera • Number of Camera Supported: 01 • Lens: 6 mm/ 9mm/ 12 mm/ 16 mm (*Depending on application) • Illumination: Diffused and polarized illumination • Number of Output Signals: 1 Tracks • Standard FOV for Inspection: 60 mm x 40 mm • Rejection Type Support: YES (PLC Type) • Vision I/O Card: KV_IO_008_V1 • Firmware Version: VERISECURE2.0_1.0.3.5
4.	PROCESSING PLATFORM	<ul style="list-style-type: none"> • Processor: Intel i3 ,13 GEN with 8GB RAM • Operating System: Windows 10
5.	FEATURES	<ul style="list-style-type: none"> • (Speed) Number of flashes per minute: Up to 15 strobes per minute* • 21 CFR Part 11Compliance • Interlock Facility: Available • Supported Product: Carton, Leaflets

3.0 Defects Detection Capabilities

SR. NO.	DEFECT TYPES	DETECTION CAPABILITY
01	Missing codes[1D/2D/QR]	YES
02	Different Codes[1D/2D/QR]	YES
03	Character missing [OCR]	YES
04	Line Missing [OCR]	YES
05	Logo/Pattern	YES

4.0 Highlights:

1. Barcode Inspection

Supports various barcode formats including 1D, static 2D, and QR codes on labels, cartons, or leaflets.

2. Optical Character Recognition (OCR)

Reads and verifies alphanumeric characters printed on cartons, leaflets, or labels.

3. Logo/Pattern Detection

Ensures the presence and correctness of logos, brand marks, or specific visual patterns.

Note:

- System performance may vary based on lighting, application, and surface type.
- Custom FOV or lens requirements can be supported as per customer needs.
- Rejection logic should be configured as per plant-specific PLC design.