SERIALIZATION & AGGREGATION
FOR PHARMACEUTICAL INDUSTRY

TECHTONIC.ID

According to Food and Drug Supervisory Agency **(BPOM) Regulation Nomor 22 Tahun 2022** about the Implementation of **2D BARCODE** in drug and food control, the public needs to be protected from drugs and food that do not meet standards and/or requirements for safety, benefits/efficacy and quality.

Our Partner

ANRES
Pharmaceutical, Cosmetic & Food Machinery

Please scan for more information

SERIALIZATION SYSTEM

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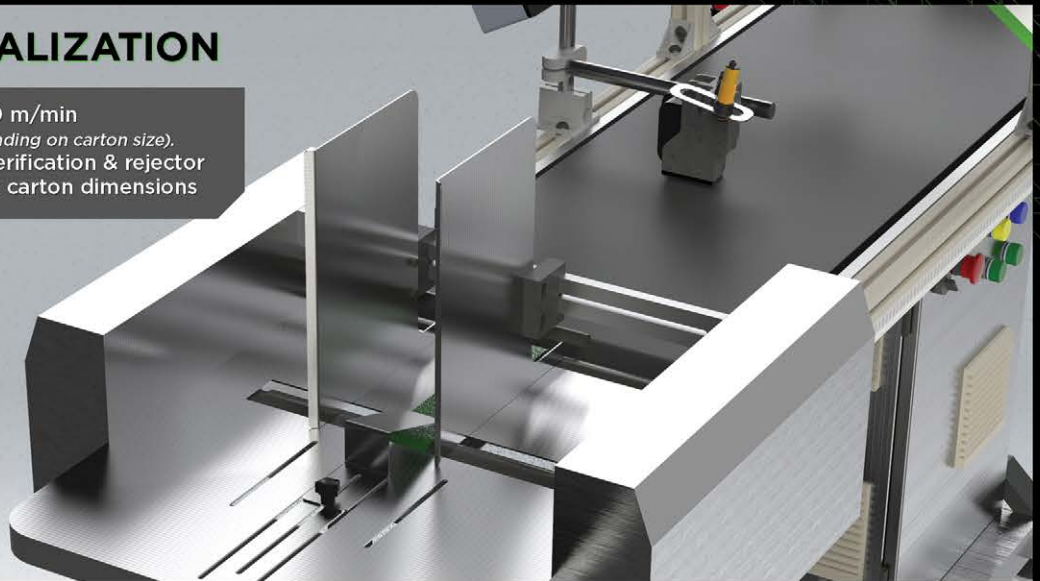
OFFLINE SERIALIZATION

- Conveyor speed up to 60 m/min
  (up to 200–250 pcs/min depending on carton size).
- Integrated with feeder, verification & rejector
- Flexible setup for various carton dimensions

Please scan for video

INLINE SERIALIZATION

- Compact design only 30cm wide.
- Fully customisable with existing production lines
- Integrated with verification & rejector

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HARDWARE SPECIFICATIONS FOR SERIALIZATIONS

Custom Conveyor Belt *(China)*

With built-in feeder, high speed up to 60m/min (up to 200–250 pcs/min depending on carton size), auto rejection and fish scale collector.

Keyence Sensor - LR-Z *(Japan)*

Distance and contrast sensor for detecting passing cartons.

Faith TIJ - KD210 *(China)*

Consists of a printer head and controller, tasked with printing 2D barcodes, high speed up to 406m/90 dpi.

Keyence Camera - SR-X100W *(Japan)*

Single-scan camera for verification of printed 2D Barcode results, equipped with autofocus and quality check threshold features.

AGGREGATION SYSTEM

Our system is designed with flexibility in mind to help the pharmaceutical industry achieve efficient and compliant packaging hierarchy management. It can be equipped with either **a single 2D barcode** scanner or **a high-speed aggregation camera** capable of capturing **multiple codes** simultaneously, depending on user needs.

The system integrates seamlessly with **label printers** and **check weighers** to enhance accuracy, streamline operations, and improve overall production efficiency. In addition, its customisable design: from table dimensions to specific feature requirements, ensures a perfect fit for every production environment.

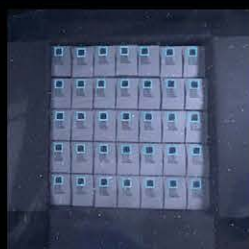### SINGLE 2D SCANNER
Manual mode for smaller operations

Sample of result

AGGREGATION CAMERA
Captures multiple 2D codes at once for better efficiency

Sample of result

Please scan for video

ADDITIONAL HARDWARES

Zebra - ZD230 *(USA)*
A label printer that has been integrated with the system to make the process of labeling carton boxes easier.

Zeuslap - 1600XTS *(CHN)*
Touch Screen Monitor, 16" Full HD, with 1920x1200 esolution to help optimize system usage.

CAS - SWII *(Korea)*
Digital scales that have been integrated with the system to assist the check weigher process, max weight up to 30kg.

INSPECTION SYSTEM

Improve quality control with customized inspection workflows. Our tablet-based solution enables seamless sample retention, case reopening, and integrity checks across facilities.

Key Features

1. **Flexible QC Sampling**
   Retain product samples based on your existing process.

2. **Randomized Case Inspections.**
   Validate the integrity of your products with random Inspections.

3. **Portable Workflow**
   Tablet-based inspections enable QC teams to move freely.
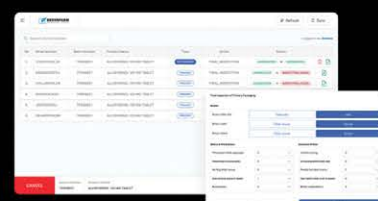
PRINT SAMPLE OVERVIEW
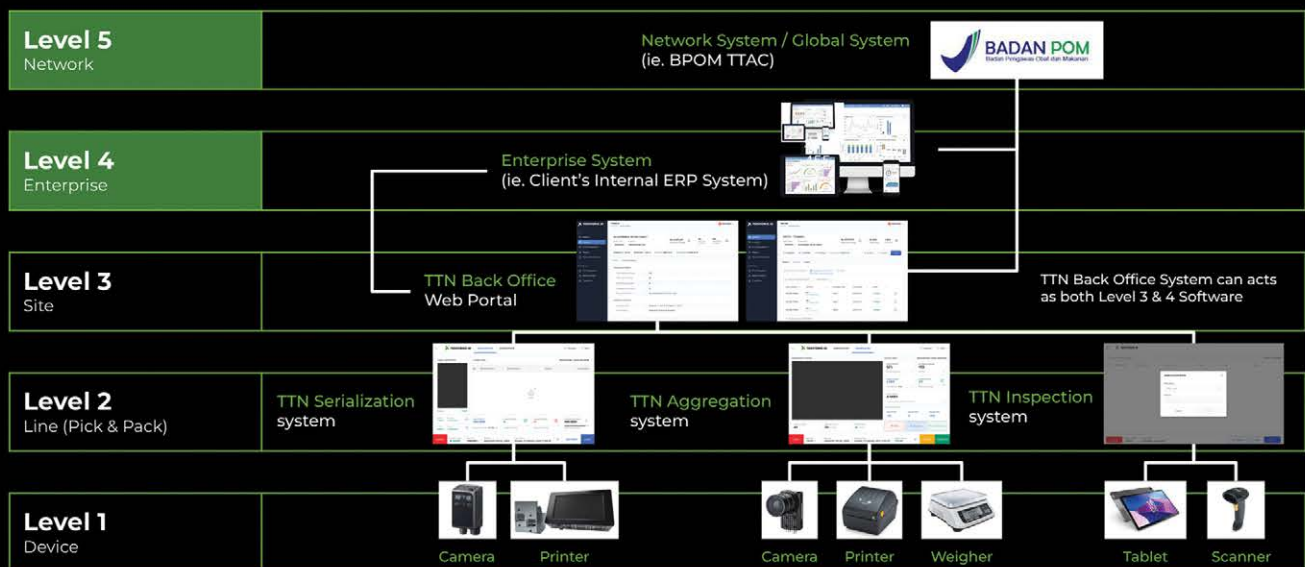

SERIALIZATION STATION

Sample print result of 2D Barcode on carton, this sample is using Data Matrix. The system can be reconfigured to print other formats as well, e.g. QR Code.

AGGREGATION STATION

Sample print result of 2D Barcode on label, this sample is using QR Code and is integrated with a weigher. This too can be reconfigured as per the requirements.

LEVEL 5 SOLUTION HIERARCHY

Level 5 Network	Network System / Global System (ie. BPOM TTAC) — BADAN POM
Level 4 Enterprise	Enterprise System (ie. Client's Internal ERP System)
Level 3 Site	TTN Back Office Web Portal — TTN Back Office System can acts as both Level 3 & 4 Software
Level 2 Line (Pick & Pack)	TTN Serialization system / TTN Aggregation system / TTN Inspection system
Level 1 Device	Camera / Printer / Camera / Printer / Weigher / Tablet / Scanner

*****TTN**: Techtonic's Software

ABOUT US

TECHTONIC.ID

Techtonic.id is a Jakarta-based technology company specializing in Industrial Automation, IoT, and Software Integration. We help pharmaceutical manufacturers comply with BPOM serialization & aggregation regulations with reliable, user-friendly, and scalable solutions.

Techtonic.id Key Strengths are Technology company with no attachment to any specific brands, Highly customisable both software and hardware, Local expertise.

Client Portfolios

BERNOFARM PHARMACEUTICAL COMPANY

HARSEN LABORATORIES

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