

PACK **i**

VISION INSPECTION SYSTEM FOR
PHARMACEUTICAL LABELS & CARTONS

On production lines where multi-product packaging goes on, there are very high chances of packaging mix-ups. This can not only prove to be problematic but in cases of medicines may prove fatal. Most pharmaceutical companies today insist on facilities which have on-line checks, that not only prevent mix-ups but also prevent overprinting errors.

Pack i is a complete solution to your on-line inspection requirements. It is an automated vision inspection device, specially developed to inspect on-line overprinting on the label, carton or any other packaging form in the pharmaceutical industry. It also verifies codes and patterns against errors.

Besides this it has several other applications....





Ensure error-free packaging.

Prevent on-line mix ups and overprinting errors.

A single Pack i system can perform five different tasks.

Pack i can inspect:

OCR

It can read the characters to verify them with the desired characters. This not only verifies mere presence but also confirms its correctness. Further teaching characters to Pack i is also extremely easy.

Pharma Code

Pack i can inspect the pharma code by calculating its value and verify the same with actual. This verifies that the label/carton belongs to the same batch and rules out mixing.

Bar Code

Pack i can read evaluate and verify the barcodes printed on the label or carton. No teaching is required.

2D code

2D codes (Data matrix codes) are one of the fastest growing codes in every industry. It contains a lot of information in a small area. Pack i is equipped to read, decode and verify these 2D codes.

Presence Verification

Pack i can verify presence of a particular shape on the label. Absence of this shape or any change in the same beyond the set tolerance is treated as error.

Thus, a single Pack i system can perform five different tasks. Apart from its versatility of application, it is extremely user friendly.

Display

An enhanced LCD screen displays the image online along with the essential graphic user interface. The specified areas on the image are colorfully highlighted to quickly indicate good or bad signal.

Touch screen

A touch screen mounted on the LCD is provided for the user to key in the commands. This eliminates the keyboard and other pointing devices.



Pack i main unit

Tower Light

A translucent tower light on top indicates good and bad signals with green and red colors along with a buzzer for errors. Thus anybody, even far away from the machine cannot miss an error.



Screenshot of user level selection with password protection.



Camera with illumination on label applicator

User Rights

Pack i is protected with different user level rights - Administrator, Supervisor and Operator to minimize tampering.

Output Options

The built in PLC of Pack i is equipped to deliver two types of outputs for defective pieces -

1. Machine Stop - Instantly stops the machine on detection of a defect. Alternatively
2. Eject. The defective piece is ejected when it reaches eject station with shift register technique

Generation of log

A log file of all the events with respect to real time is automatically generated for every job. This file can be easily transferred to any other computer.

System Components

1) Camera

High resolution digital camera with IEEE 1394 firewire interface.

2) Illumination

Specially designed white / red, cool, hazard-free LED illumination with provision to run in flash or continuous mode.

3) Controller

Technologically advanced computer system with built in PLC to control trigger and input / output functions.

Optional

Camera with higher resolution.
Special illumination to cater different materials and applications.
Additional input / output features.
Additional cameras to perform different inspections.
Compliance with 21 CFR part 11.

