

# IntegraVision Integrity Tools

The IntegraVision suite of Integrity tools provides a scalable solution for all document printers and processors, where end of line integrity verification is critical for production quality, liability protection and client satisfaction.

Implemented directly on the output of mail processing, printing, plastic card or web processing equipment, each tool can be configured to perform a variety of control functions according to user defined conditions, including piece divert and machine stop. Each integrity inspection event is logged, enabling an operator to manually correct any identified errors, or to accept the failed status through a dynamic, easy to use GUI.

When used in combination with **IntegraVision Reports**, a detailed report of each individual piece within a job can provide an exportable audit trail and exceptions list for re-processing.

## Sequence Check:

For sequential applications, the IntegraVision Sequence Check allows the user to capture and inspect each sequence number to verify accurate job processing. By **calculating** the next expected piece number, the tool can identify errors typically caused by mis-feeds, double feeds, duplicated or missing print.

The simple setup routines allow the user to select the start and end number in the sequence and an "increment/decrement by" count. Alternatively the tool can "autostart" using the next piece to be processed, and can "loop" for repeating sequence numbers. The tool can also be user configured to skip X number of misreads, allowing for breaks in the sequence without unnecessary machine stoppages, while still alerting the user.

## Sequence Audit:

Using a start and end sequence number, the Sequence Audit tool creates a file to compare to the job during production. By comparing to this automatically created file, the Sequence Audit tool provides enhanced integrity reporting with the ability to identify and report on missing or duplicate pieces. In addition it has the ability to look forward or backwards in a pre defined range to allow for minor paper handling and feeding issues reducing the number of unnecessary machine stoppages.

On completion of a job, an exportable file is produced listing the status of every piece within the created, fixed width format file.

## Identifiable Errors:

- Missing piece
- Duplicate piece
- Out of Range piece
- Bad Scan

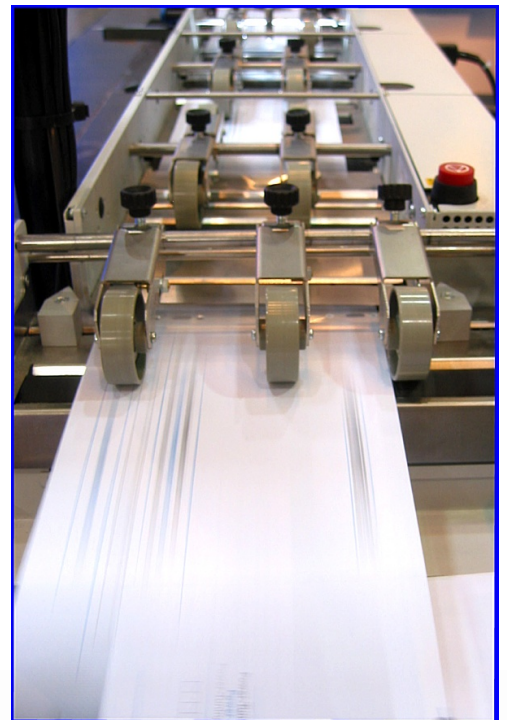
Integravision's suite of Integrity Tools operate within the LIS MultiScan Manager environment, and provide full functionality for a range of data sources including:

## IntegraVision Read Tools:

- OCR
- Barcode /2D
- Postal Barcode
- Planet Code / Postnet

## Serial Input devices:

- Barcode scanners
- Camera systems
- 2D Scanners
- Mag-Stripe readers



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## File Audit:

Providing the ultimate solution to end of line integrity processing, the File Audit tool uses the **original print file** to verify the production run. The data from each individual piece is compared to the original print file and verified that it is correct, accurate and within range. In this case each identifying code on each mail piece need not be a sequence number, however it must run in the approximate order of the input file.

A File Definition file is created to enable the user to define the file type and location of the relevant fields within the file. When using a fixed width input file, each record can be updated with the status and time and date stamp of every piece processed. The user has the ability to manually repair or accept the failed status, at which point the input file, and the completed and failed product reports are amended accordingly.

**Input File Formats:**

- .csv
- Fixed Width

**Identifiable Errors:**

- Missing piece
- Duplicate piece
- Out of Range piece
- Bad Scan

## Handling Integrity Errors:

When an error is identified, the on screen integrity log is updated, highlighting the error to the operator, and the piece is diverted or the process stopped. If the failed piece can be recovered and proves to be acceptable the operator can choose to mark the record in the integrity log as manually repaired and replace the piece back into the production stream. If however the piece proves to be incorrect the operator can accept the failed status, at which point the completed report or exceptions list is updated to complete the audit trail.

## Integrity Tool Controls:

### Configure Input Parser:

The Input Parser can be configured to extract the key data or characters to be inspected from a longer data string. Typically used if the sequence data or file data is encoded within a machine control code or postal barcode.

### Output Device Control:

Individual Divert and Batch Device control can be configured to accommodate most installations:

- Device delay in machine cycles and/or time
- Device Toggle or Pulse
- Device ON time

### Configure Control Action:

Various control actions can be independently configured for a variety of error conditions:

**Bad Scan:** (poor print quality, unreadable code, missing or incomplete code)

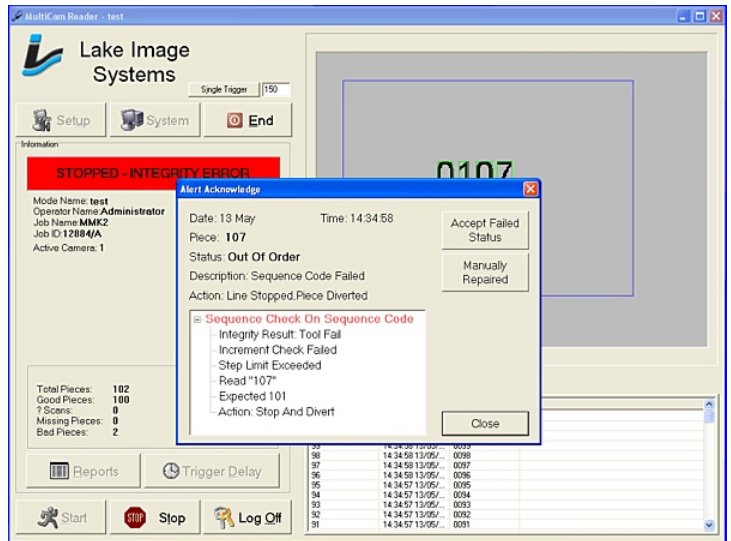
- Divert piece
- Stop after 'n' errors

**Missing Piece:** (missing pieces from sequence or file)

- Divert next piece
- Stop after 'n' errors

**Other Errors:** (insufficient characters, out of order, end of database, duplicate)

- Divert piece
- Stop after 'n' errors



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