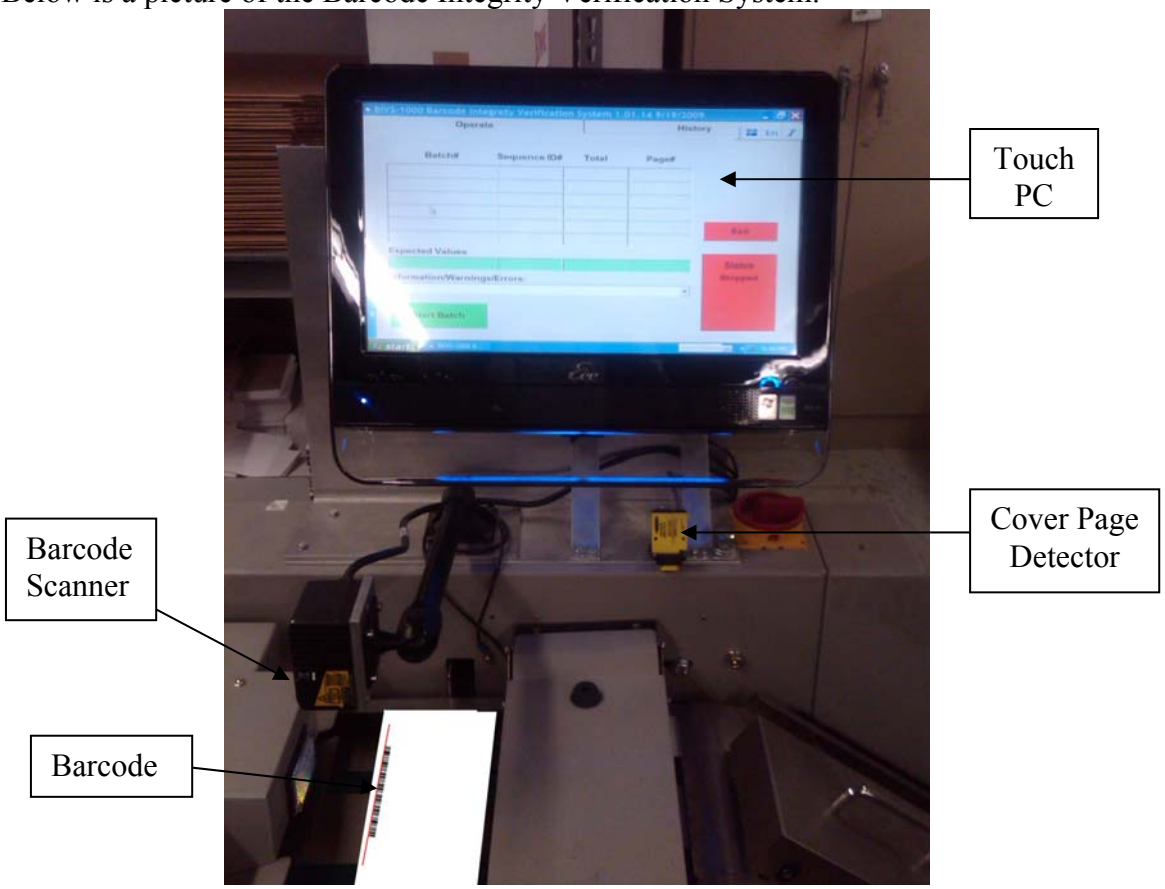
Barcode Integrity Verification System

Description: The Barcode Integrity Verification System was designed to read every barcode and determine the following:

1) All booklets are from the same batch.
2) Booklets of the batch are in correct order.
3) Pages of the booklet are all accounted for.
4) Pages of the booklet are in correct order.

Below is a picture of the Barcode Integrity Verification System.



The Touch Screen computer is loaded with the Barcode Integrity Verification Software. The Touch Screen allows for operator control of the software. The software is very user friendly.

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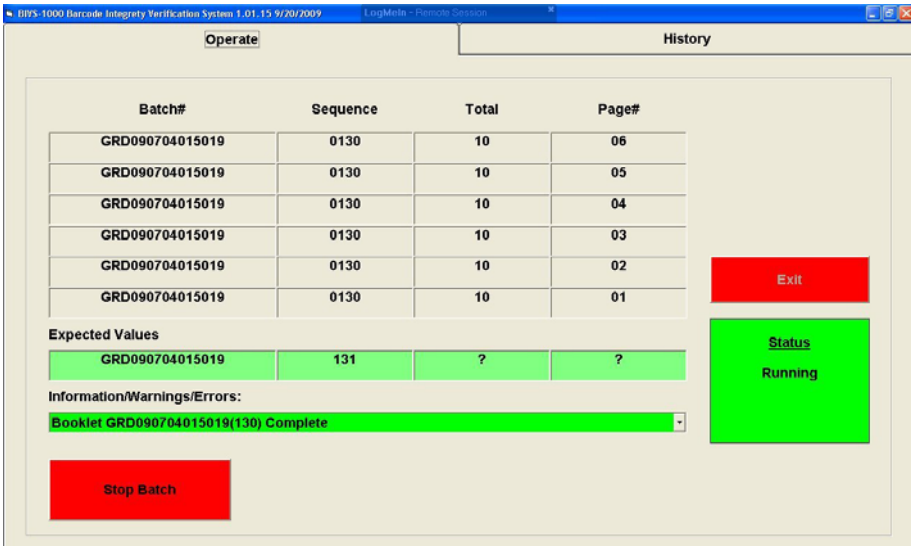
Below is a screen shot of the operator screen:



Status:
Running – Software is ready to receive barcode data.
Error – Error detected. Stops machine
Stopped – Software is inactive. Machine can operate without software recording data and verifying barcode integrity.

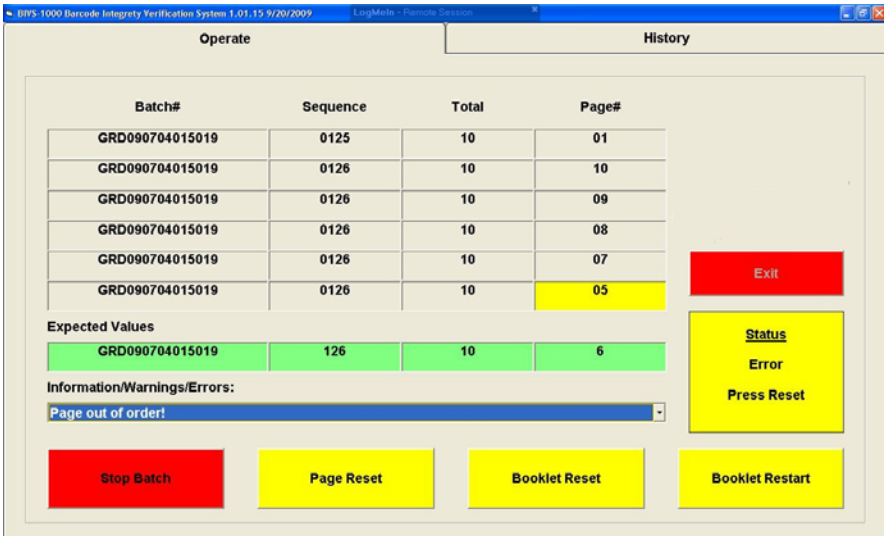
Operator Controls:
Stop Batch – Operator will press to stop monitoring the batch.
Start Batch – Operator will press to start monitoring the batch.
Exit – Exits software. Active when batch is stopped.
History Tab – history reporting. Explained later

Information/Warning/Errors:
Provides running list of completed booklets, error stop conditions, and problems such as:

- Booklet Complete
- Page Missing
- Page from wrong booklet
- Page from wrong batch
- No Read condition

Expected Values:
Will display the next expected page to be read. Software knows last sequence that was completed and determines if the next booklet was incremented or decremented value. The barcode indicates the total amount of pages. Software monitors the order and qty of the pages.

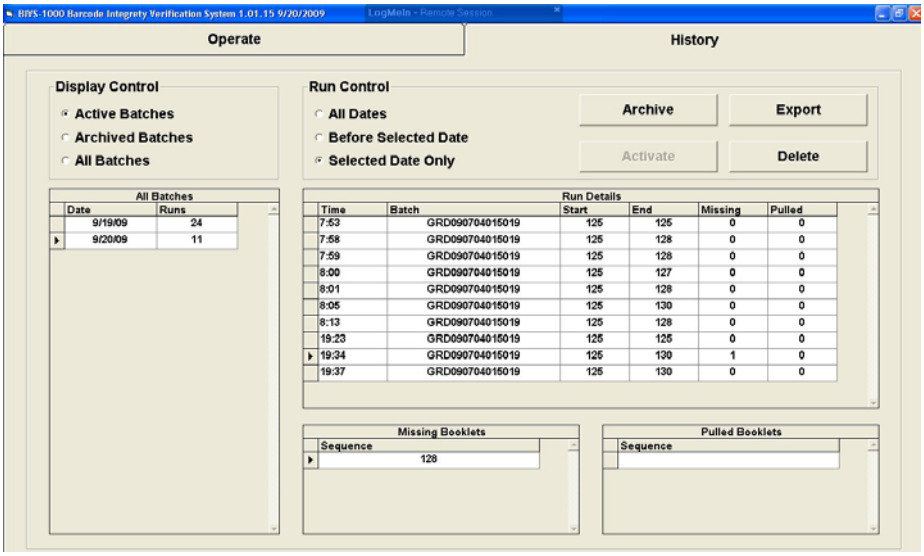
Below is an example of error condition:



The problem is a page is out of order. The operator has the option to:
Page Reset – Allows operator to fix error with page and restart from the missing page. The software expects to see the next page.
Booklet Reset – This will allow the operator to remove the booklet and the software expects to see next booklet in the batch.
Booklet Restart – This will allow the operator to reload the booklet and start over.
Stop Batch – The operator has the ability to stop monitoring the batch and start with a new session.

When an error does occur the error condition is highlighted in yellow and the error is shown in the Information/Warnings/ Errors drop down menu.

Below is a screen shot of the history screen:



History is recorded for every batch.
Batches are date/time stamped
For every batch we record booklets read, booklets pulled and missing booklets.
The reports can be presented in Microsoft Access of Excel.
Reports can be archived.

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