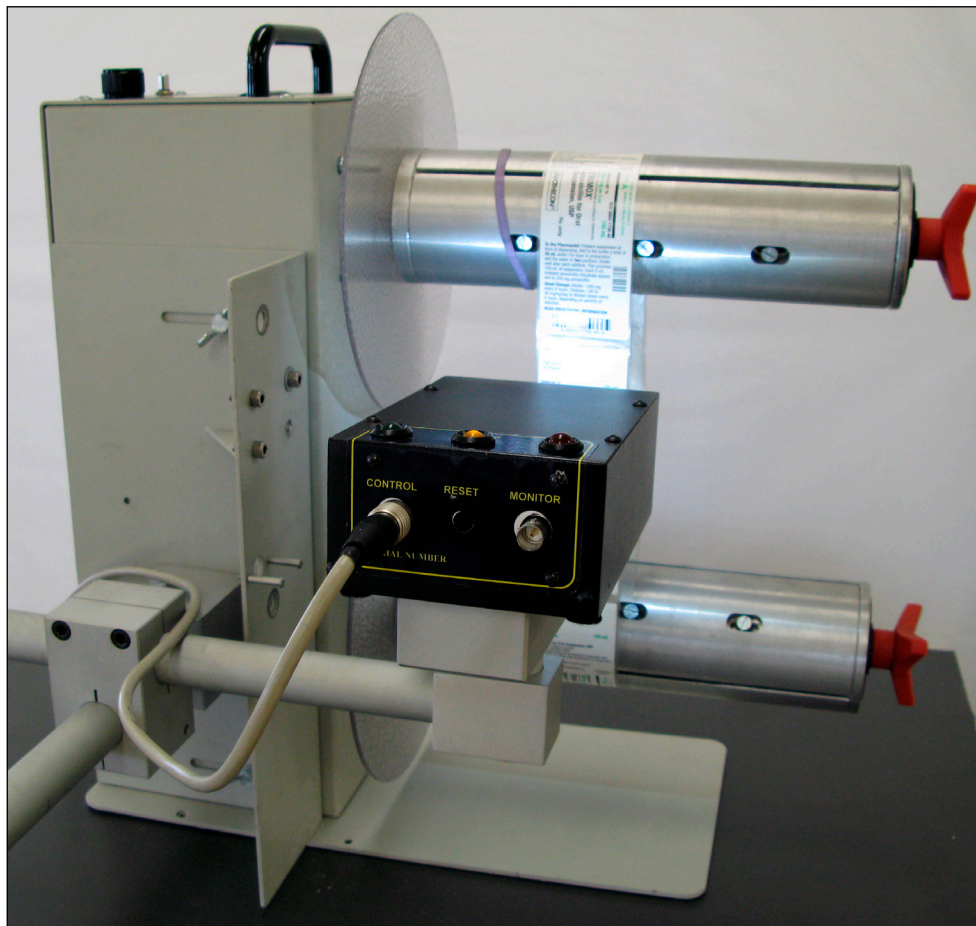


# Complete Inspection Systems, Inc.

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## AccuPro™ Intelligent Barcode Scanning System



**PC based Setup:** Using a simple “show and go” training approach, the AccuPro System can be programmed to reject minute flaws in the bar code.

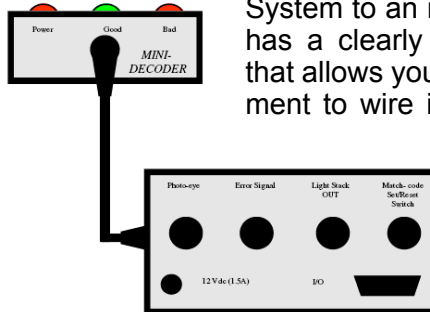
**Vision based:** By using camera technology, there are no moving parts...allowing for years of uninterrupted service. And, each bar code image is scanned thousands of times for both ladder or picket fence orientation.

**Reports are available:** An archive file is created for every inspection job. The results can be printed or networked to another location. Each bar code will have its own date/time stamp. Error codes are listed on the report.

**Unmatched inspection tools:** This system is designed to inspect and flag for the following error conditions: out of sequence, duplicates, and grade quality.

**Easy installation:** A complete set of accessories are available to aid in mounting the read head anywhere.

**Simplified Integration:** No rocket-science needed here, one cable connects from the Decoder System to an interface box. This box has a clearly marked terminal strip that allows your maintenance department to wire in an audible alarm, a light stack, machine stop motion, or a parts diverter.



## SLE30 Banner Photo-eye

A photo-eye is used to detect the beginning of each label. This type of photo-eye is designed to detect labels by seeing through the label stock. It is programmable so that it can be used on a wide variety of label stock material.



## Light Tower with Audible alarm

This is an LED based light tower system and will turn "on" the green light when a label has passed inspection and will turn "on" the red light when an error occurs. There is an audible alarm module available so that when an error occurs, the user will hear a short beep. The audible alarm sound level is rated at 82db.

## Technical Specifications

### Symbologies:

- UPC, UCC128, Codabar, ITF, Code 39, Code 128

### Orientation:

- Ladder or Picket fence

### Lighting:

- Integrated LED's

### Speed:

- Up to 300 feet per minute and 60 labels a second

### Power Requirements:

- 12 VDC @ 1.5 Amp Max

### Outputs:

- 2 independent open collector 100ma / 30 Vdc Max.
- 2 light tower outputs
- 1 relay output contacts n.o. and n.c.

### Inputs:

- Trigger for photo-eye or encoder
- Symbol capture
- Symbol clear
- Teach
- Reset

### Reporting capabilities:

- Detailed and summary reports including data and quality indication for each symbol.
- Date and time stamped
- User Information
- Statistics

### Computer Requirements:

- Microsoft Windows XP
- Intel or compatible processor (700MHz or greater)
- 256 MB RAM or greater
- 150 MB disk space
- SVGA (800X600 or greater) with 256 colors

### Physical Size:

- 2" X 4" X 6"

## Interface box

The Interface Box is designed to interface with the Decoder. All inputs and outputs are terminated here for the: Light Tower, Audible alarm, Photo-eye, Error relay contacts, Match-code set and reset, and computer cable RS232. Power for the entire system (12Vdc @ 2a) is also connected to the Interface Box.

## Inspection Tools

### Error Conditions

This system is designed to inspect and report for the following error conditions:

**Out of sequence (numeric only)** - Checks all incoming bar code data for sequentiality. The Error line can be activated if any labels are out of sequence. After an error has occurred, the system can be programmed to continue or remains locked in a stand-by mode until the "Reset button" is pressed.

### Duplicates

The system is designed to make sure all bar code labels are the same during an inspection run. Software is taught which bar code label is correct by pressing the "Teach" button while the correct bar code label is being decoded by the Mini-Decoder, The Teach button is located on an externally mounted control panel that is connected to the Interface box. When a duplicate has been detected, the system can be programmed to continue or remains locked in a stand-by mode until the "Reset button" is pressed.

### Overall grade quality check

Software understands the overall quality of each bar code label. The user can specify what percent of error is acceptable and will activate the Error line if the grade drops below the specified level. After an error has occurred, the system can be programmed to continue or remain locked in a stand-by mode until the "Reset button" is pressed.

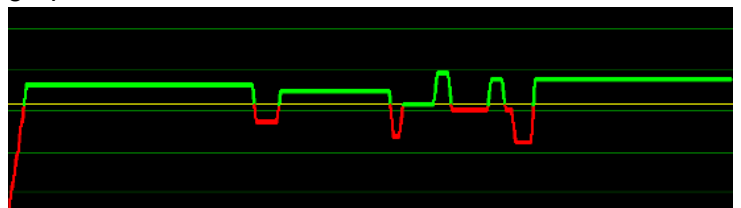
### Decoder

### Machine Stop on Errors

The Interface box has a relay in it that activates on all programmed errors. Normally open and normally closed contacts are both there. This will allow the maintenance department to connect the Interface box to their "Machine Stop" line. Then, when a error occurs, the relay will activate and stop the machine. The user can then remove the bad bar code label and then continue.

### Real Time Graph

The computer software screen shows a live update graph for every bar code label being read. This allows the user to see trends in print quality at all times. This graph is color coded.



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