



**INSPECTOR 3000**  
**ANSI Method Portable Bar Code Verifier**  
**DATA SHEET**



**The Inspector 3000 is RJS' Lowest Price ANSI Method Verifier**

The Inspector 3000 meets the American National Standard Institute's "Guideline for Bar Code Quality" (ANSI X3.182) method for verification. It also meets Uniform Code Council (UCC) and CEN specifications regarding verification methods.

This truly unique and powerful instrument is also easy to use. All the popular linear symbologies are supported. Store and print capability, multiple scan averaging and subsymbology choices are easily accessed through a simple four-button user interface. Analysis information appears immediately on a 32-character alphanumeric liquid crystal display (LCD). A distinct audible tone and a series of five colored LEDs indicate whether a bar code is in or out of specification.

In addition to the ANSI method parameters, traditional analysis parameters are provided on the LCD without the need for special mode settings.

Data can also be sent to an optional printer or to RS-232 compatible equipment for further analysis.

Two wand choices are available - 6 mil and 10 mil aperture, both with red (660 nm) light wavelength.

Accessories available include two printer models and a battery charger/power supply.

## GENERAL SPECIFICATIONS - Inspector 3000

### Symbologies

- Code 39; ANSI Traditional, w/mod43, AIAG, LOGMARS, HIBC
- UPC A & E/EAN 8 & 13 including 2 and 5 digit supplemental codes
- Code 128; ANSI, Shipping Container
- Codabar Variant
- Interleaved 2 of 5; ANSI Traditional, Case Code
- Code 93

### Features

- Auto-discrimination between symbologies
- Store and Print capability
- Bi-directional scanning
- Single scan or multiple scan averaging (up to 10 scans)

### Parameters Analyzed

- ANSI; Overall Symbol Grade, Decodability, Symbol Contrast, Reflectance (min/max), Modulation, Defects, Edge Contrast, Ref. Decode, Application Compliance
- Traditional; PCS, Ratio, Avg. Bar Deviation, Quiet Zones, Mod Check, Encodation Check

### User Interface

- Simple 4 button: On, Print, Select, Enter
- 4-line LCD
- 5 LED  - indicate Overall Symbol grade
- Audible tones indicate pass/fail results, low battery

### Standard Accessories

- AA size Alkaline batteries

### Optional Accessories

- Printer: TP140 (for Scan Reflectance Profile graphics), TP40
- Battery charger (can be used as AC power supply w/batteries removed from unit)
- AA size NiCad Rechargeable Batteries (for use with charger)

### Physical

- 7.8 " (198 mm)L x 4.6" (117 mm)W x 1.9" (48 mm) D
- 16 oz. (454 g) wt.

### Product Applications

- UPC or EAN codes printed on flat surfaces (use 6-mil optic)
  - Measure material reflectance
  - Portable verifier for screening codes printed on thermal or laser printers
  - Verification of codes printed with constant X dimension
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## **RJS INSPECTOR 3000 STATEMENT OF COMPLIANCE**

The RJS Inspector 3000 performs the ANSI method of verification. This document is intended to describe the verifier  standards of compliance.

### **Reflectance Compliance - 660 nm wavelength (red) light** (see note 1)

The reflectance values indicated for the calibration plaque supplied with the Inspector 3000 are traceable to the Applied Image Primary Verification Calibrated Standard per ANSI X3.182 Step Reflectance Chart (see note 2).

### **ANSI Verification Method Compliance**

The Inspector 3000 gathers data and performs all ANSI parameter calculations per the X3.182-1990 methodology. **No optical correction algorithms are incorporated in this system. One RJS proprietary calculation correction algorithm is incorporated to provide a more accurate and consistent Decodability calculation for manual scanning. This algorithm produces maximum accuracy for Decodability when a symbol is scanned both directions during a multiple scan analysis.**

The Inspector 3000 incorporates an industry standard wand for its optical configuration. By design, this optical configuration does not meet all aspects of the X3.182-1990 requirements.

Final system test is performed by scanning a set of test symbols that are traceable to Applied Image U.P.C. Primary Verification Standard (per ANSI X3.182) calibrated at 660 nm and 6 mil aperture (or 10 mil depending on the wand model being tested.) All calculated parameters are confirmed to be within +/- 4% of all target parameter values marked on the symbols (see notes 1 and 2.)

#### Notes:

- 1 . The Inspector 3000 can be set up to be calibrated to practically any reflectance standard. High and low calibration reflectance target values are user programmable via menus.
- 2 . Applied Image certified Calibration Standards are manufactured to Applied Image, Inc. and Uniform Code Council, Inc. specifications, using ANSI X3.182-1990 methodology, and are calibrated using standards traceable to the National Institute of Standards and Technology (N.I.S.T.)