Product Overview

BCV1203 Barcode Verifier

Whether you are looking to verify product packaging, verify UPC code compliance, or ensure accurate shipping labels, the Diamond Technologies BCV-1203 provides a compact, easy to use, reliable solution which monitors barcode labels and alerts personnel of wrong codes or unreadable codes in the manufacturing or label verification process.

The BCV-1203 has been designed to provide a cost effective solution to many barcode verification applications.

At just 9.4" x 8.6" x 5.5" the BCV-1203 is significantly smaller than many older barcode verification systems. This allows the unit to save valuable real estate on the manufacturing floor while fitting onto smaller more compact machines. The unit includes an embedded controller which optionally can support 8 Digital In, 8 Digital Out, 8 Analog In, and 4 Analog out. The controller also supports multiple serial ports and options are available to allow for connectivity to most major Fieldbus networks including Ethernet IP, Modbus TCP/IP, DeviceNet, Profibus, and more.

BCV-1203 utilizes an easy-to-use 4.3" touch screen. The operator screens include features such as password protection, and the ability to key in the verification code, scan the verification code, or automatically accept the code.

The main operating screen provides feedback on the current code read as well as Total Reads, Good Read, No Read, Wrong Read. The system alerts operators to an incorrect read and an internal relay can be tied to stop machine/label rewind/or conveyor operation.

The BCV-1203 can also be tailored to specific applications and accommodate options for Hand Held readers, 2D Readers, Stack light, and more.

Diamond Technologies can further tailor the system to your specific needs and up to 4 barcode readers can be supported with each BCV.

" The BCV verifier was the perfect solution to eliminate the incorrect mixing of labels to our customers. We now save significant time in rewind and ensure the correct product is being shipped." - QC Manager Major Label producer
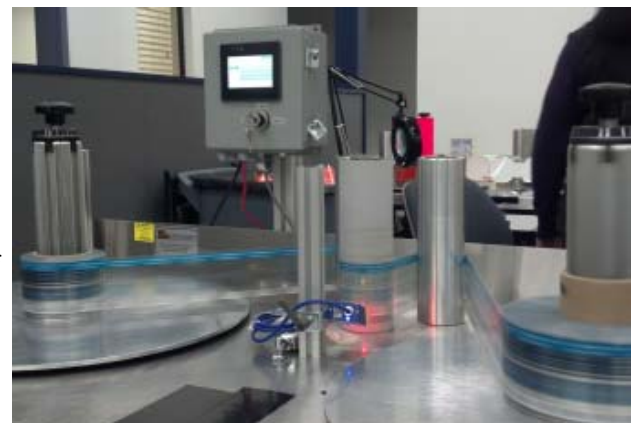
BCV1203 in high speed label rewind verification system

Front View

Side View

Applications

The BCV1203 is perfectly suited for Medical, Biomedical, Pharmaceutical, and Food and Beverage industries. Applications include label rewind and slitting tables, label verification in pharmaceutical packaging, verification of correct packaging in Food and Beverage, and validation of UPC code readability. The BCV-1203 can support a range of serial barcode readers allowing for greater reading distances, higher throughput and 1D or 2D code reading.

Technical Specifications

General

- **Dimensions   9.4" (239mm) L x 8.6" (218mm) W x 5.5" (140mm)D**
- **Operating Temperature: 0 to 50 degrees C**
- **Storage Temperature: -20 to 65 degrees C**
- **Relative Humidity: 10% to 90% (non-condensing)**
- **Operating Voltage: 85 -264 VAC**

Display

- **4.3" TFT Active Matrix Display**
- **LED backlight with 30,000 hour life span**
- **1 Million activations touch screen**
- **Resistive Touch .08" accuracy**
- **65,536 Color**
- **500 cd/m brightness**
- **Password protection or Key lock for Barcode selection**
- **Current Code, Total Read, Good Read, No Read, Wrong Read Indication**
- **Indication of Relay out on Wrong Read and No Read**

Control

- **(4) RS232/RS485 ports**
- **(2) Relay outputs, Up to 8A per Relay, 250 VAC or DC voltage**

Control Options

- **(8) Digital Outputs 24VDC Sinking or Sourcing**
- **(8) Digital Inputs 24VDC Sinking or Sourcing**
- **(8) Analog Input voltage 0-10VDC**
- **(4) Analog Outputs voltage 0-10VDC**

Other Options and Accessories

- **1D, 2D Barcode Readers**
- **Hand Held Reader**
- **High speed slot sensor**
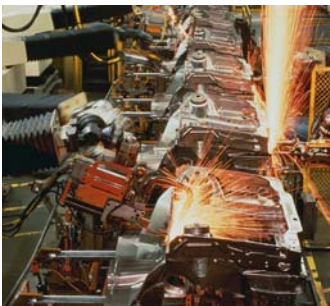- **Registration mark sensor**
- **Stack Light**
- **Network Connectivity**

Ethernet IP	Modbus TCP/IP	CANopen
DeviceNet	Profibus	Modbus RTU

Company Information

Diamond Technologies provides solutions to your Business's Automation, Data Collection, Industrial Networking, and Remote Management challenges.   Our customer base includes companies in many diverse industries and applications including semiconductor processing, warehouse and distribution, electrical power equipment manufacturers, discrete parts manufacturing, packaging systems, medical and biomedical equipment manufacturers, pharmaceutical applications, weigh scale manufacturers, electrical power suppliers, automatically guided vehicles and robotics, industrial manufacturers of consumer products, and government.

We pride ourselves on our industry knowledge and bringing innovative ideas to our customer base.

Specialized Engineering Services

Diamond Technologies has the flexibility to modify our core products or technologies to meet your specific product or project requirements. Whether you have mechanical constraints, need modifications to communication protocols, or require added or modified I/O capabilities, **Diamond Technologies** can work with your engineering team to accomplish your goals. For nearly 20 years Diamond has provided Specialized Engineering to ensure the final solution achieves our customers' requirements.

We have expertise in Data Collection, Remote Management, Industrial Networking and Automation systems. We can provide electronics hardware design, firmware development, industrial network communication protocols, and PC and mobile application development. We have worked with most major industrial wired and wireless networks.