

# BA-220 DualBeam Barcode Reader

## for Vehicle Access Control & Automatic Vehicle Identification

The BA-220 DualBeam Barcode Reader is the culmination of a ten year R&D project. It is without question the most reliable and cost effective device on the market today for Automatic Vehicle Identification (AVI) and Vehicle Access Control. Incorporating the most advanced laser technology, along with the "elegantly simplistic" design concepts pioneered by Barcode Automation, the BA-220 will set the standards for the industry in the years to come.

An ideal access control reader for gated communities, the BA-220 DualBeam Barcode Reader is also the system of choice for airports, employee parking lots, state parks, toll bridges, parking garages, hospitals, rental car lots, government installations - anywhere Vehicle Identification or Access Control is needed.

The Sun is no longer an issue. With it's advanced laser technology, the BA-220 DualBeam Barcode Reader is never blinded by the sun.

A key feature of the BA-220 is the ability to act as a simple "stand alone" access controller. With an optional relay (BA-220-OPT-G), the reader will control the gate directly. As a vehicle passes by, the decal is read and checked against the internal database. If the decal is valid, the relay is activated, opening the gate. If it has been disabled, the gate is not opened, and the decal is logged as denied. The database in the BA-220 will handle 100,000 unique decals, which can be individually configured to grant or deny access. The transactions are logged with the time/date and event (Entered or Denied).



### Features/Benefits

- ETL Listed for UL Std. 294
- Compatible and easy to interface with all known access control panels
- Configurable to stand alone, and grant or deny access, for up to 100,000 vehicles, with time and date logging
- Can be pre-configured at the factory, or easily configured on site
- Reads decals up to 6 feet from the reader on vehicles moving up to 25 mph
- Designed with quick disconnects for easy field service
- Electronics and optics modules can be replaced easily without removing the entire unit
- Built-in diagnostics for easy fault isolation and fast field servicing
- Environmentally sealed to NEMA 4 standard
- With minimal maintenance, Guaranteed to read 100%
- Available with 115VAC or 24VDC input power
- Reader can recognize a vehicle, with or without a detector loop, and transmit only one time per decal
- External "Laser ON" and "Good Read" indicators
- Designed to ignore barcodes printed on paper or photocopied
- Meets CDRH Class II laser safety specifications
- Communication via RS 232C, and Wiegand 26 bit formats
- Can be configured to read any known AVI Barcode Label format (except AFC)
- Five year warranty (including lightning and power surge) with advance replacements
- No problem with the sun, No problem with RF interference



**Doing It Better - Because We Care**



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# BA-220 DualBeam Barcode Reader

Specifications subject to  
change without notice

*ETL Listed - Meets UL Std. 294*

**Laser Type:**

*Light Source: Visible Laser Diode*

*Output Wavelength (nominal): 658 NM*

*CDRH Safety Class II*

*Output Power: less than 1mw/cm<sup>2</sup>*

**Optical Specifications:**

*Operating Distance: 24 to 72 in (61 to 182 cm)*

**Barcode Decals:**

*Reads Various Colors of Retro-Reflective Decals*

*Can be configured to read all known AVI formats (except AFC)*

**Communication (RS232):**

*Data Rate: 2400, 4800, 9600, 19200, 38400 Baud*

*Configuration: 8N1, 7E1*

**Communication (Wiegand):**

*26bit format*

**Scan Trigger Options:**

*Automatic, Loop Detector (arming loop)*

**Display indicators:**

*Laser On, Good Read, Internal Diagnostics*

**Electrical Specifications:**

*Voltage input: 115 VAC single phase @ 50/60Hz*

*Power: 100 Watts max*

*Optional 24Volt DC input, 2.5 Amps max*

**Environmental Specifications:**

*Operating Temperature: -22 to 130° F (-30 to 55° C)*

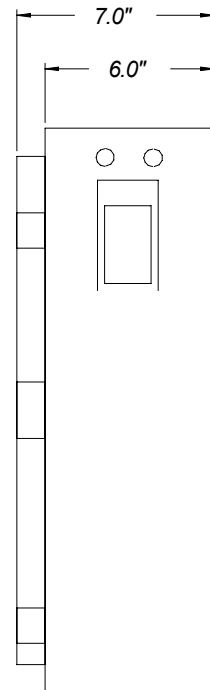
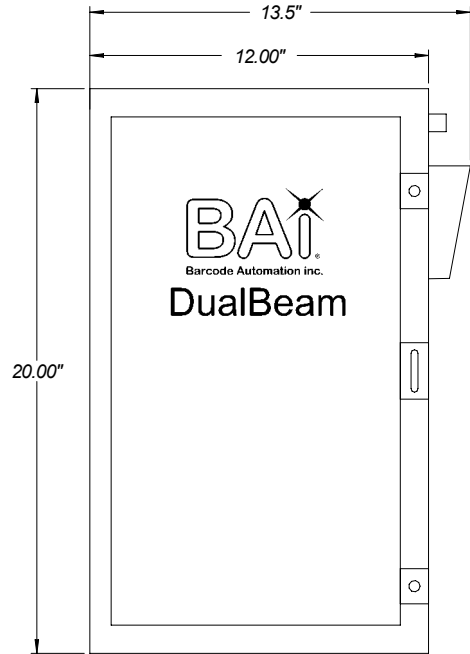
*Relative Humidity: 10% to 100% (non-condensing)*

*Microprocessor based internal temperature control*

**Mechanical Specifications:**

*Design: NEMA 4*

*Dimensions: See drawings above for details*



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