

# BA-200 Barcode Reader

## A Barcode Reader Developed Specifically for Automatic Vehicle Identification and Access Control

The **BA-200 Barcode Reader** offers the highest level of reliability and performance in Vehicle Access Control and AVI (Automatic Vehicle Identification) Barcode Readers. Designed specifically for the harsh environments typical of these applications, it features enhanced temperature control for extended laser life and better system reliability.

A **significant cost saving feature** is the ability to be quickly and easily configured to grant or deny access for up to 100,000 vehicles for each facility, with time and date logging. This allows the BA-200 to be used as a “stand alone” access controller in many applications.

**Other key features** include modular construction, quick disconnects, and built-in diagnostics for fast and easy servicing.



BA-200 Reads Barcode and Opens Gate

The BA-200 barcode reader is a moving beam laser scanner designed to read retro-reflective barcode labels on moving vehicles. It is an ideal access control reader for gated communities, airports, parking garages, hospitals, government installations, and rental car lots. Housed in a durable painted aluminum enclosure, the reader works around the clock, easing the workload of gatekeepers and security personnel.

The reader can be used with or without a vehicle detector loop. When a vehicle approaches, the reader decodes the decal and validates the ID Number. The gate raises and the vehicle continues through the lane at speeds up to 25 mph. Decals can be read at distances of six feet even in extreme temperatures and weather conditions.

### Features/Benefits

- 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, but changing configuration is quick and easy.
- High Scanning Rate - provides accurate decoding of decals on moving vehicles up to 25 mph.
- Modular Subassembly - Designed with quick disconnects for easy field service, the electronics and optics modules can be removed and replaced easily and quickly without removing the entire unit.
- Built in diagnostics for easy fault isolation and fast field servicing.
- Environmentally sealed to NEMA 4 standard.
- 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, 30, and 31 bit formats.
- Can be configured to read AVI Labels from Accu-Sort, AFC, Amtel, ISI, LazerData and others.
- Two year warranty with advance replacements.

**Doing It Better - Because We Care**



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# BA-200 Barcode Reader

Specifications subject to  
change without notice

## Laser Type:

Light Source: Visible Laser Diode  
Output Wavelength (nominal): 670 NM  
CDRH Safety Class II  
Output Power: less than 1mw

## Scanning subsystem:

Type: Unidirectional  
Rotating 8 facet polygon mirror  
D.C. brushless motor  
Scan Rate: 400 scans per second  
Scan Angle: 60 degrees

## Optical Specifications:

Operating Distance: 24 to 72 in (61 to 182 cm)  
Decal-dependent (with a 50 mil (1.27 mm) narrow bar)

## Barcode Decals:

Reads Various Colors of Retro-Reflective Decals  
Can read Accu-Sort, AFC, Amtel, ISI, & LazerData AVI Labels

## Communication (RS232):

Data Rate: 1200, 2400, 4800, 9600, 19200, 38400 Baud  
Configuration: 8N1, 7E1

## Communication (Wiegand):

26bit, 26bit hold, 30bit, and 31bit formats

## Scan Trigger Options:

Automatic, Loop Detector (arming loop)

## Display indicators:

Laser On, Good Read, Internal Diagnostics

## Electrical Specifications:

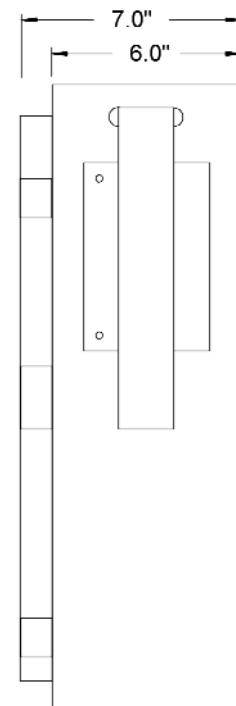
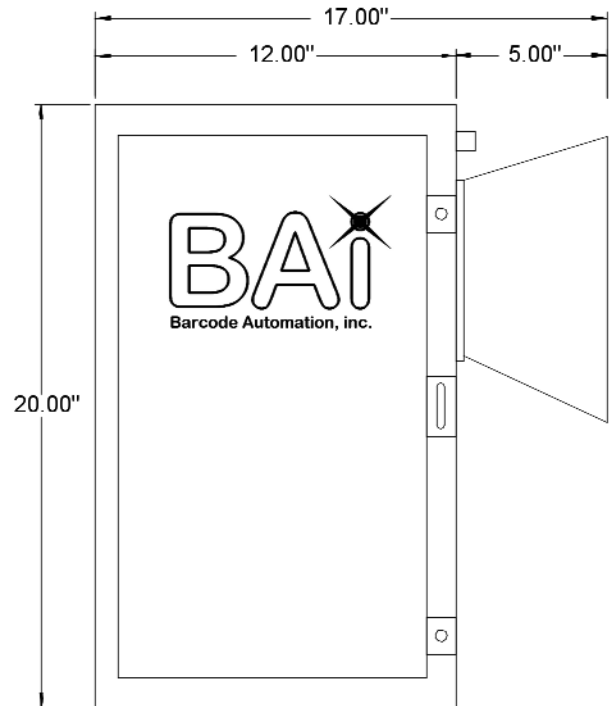
Voltage input: 115/230 VAC single phase @ 50/60Hz  
Power: 100 Watts max  
Optional 24Volt DC input, 2.5 Amps max

## 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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