Outdoor Barcode Readers, Decals, and Accessories for Automatic Vehicle Identification and Access Control

Barcode Readers and Decals Product Catalog

Barcode Automation, inc.
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Barcode Automation, inc. (BAI) is the leading manufacturer of barcode readers and decals designed for Automatic Vehicle Identification (AVI) and access control. Our systems are ideal for use at gated vehicle entrances, such as gated communities, private employee parking areas, long term parking, schools, universities, state parks, and many others.

Vehicle ID systems from BAI use two parts; a barcode reader that mounts next to the street or drive, and a decal that is applied to the side window of each vehicle. Using the system is very easy, the vehicles simply drive past the reader, which detects and decodes the decal automatically.

Decals have a 5 year life expectancy and are available in 56 different color combinations. All colors read equally well, so choose the colors you like.

**Exceptional performance**
BAI readers are guaranteed to read decals up to six feet away, on vehicles moving at up to 25 mph, in all kinds of weather. Our readers are not affected by rain, glare from the Sun, or electrical interference from cell phones, radios, Wi-Fi, etc. Once the vehicle is identified, the reader automatically transmits the ID code to the access control system.

**Compatible with other access control systems**
BAI readers are compatible with access control equipment from Northern Computer, Linear, Keri Systems, Chamberlain, DoorKing, Select Engineered Systems, DSX, and many others. To put it simply, every access system that accepts 26 bit Wiegand messages is compatible with BAI readers.

**Convenient**
BAI barcode systems are “hands free”, so there is no need to stop and roll down a window in the rain or snow. No buttons to press, no codes to enter, no batteries to replace, and no remote to break or lose. In addition, BAI readers ignore photocopies of the vehicle decals.
Dependable
Constructed of sturdy aluminum and stainless steel components, BAI readers are designed from the ground up to operate in harsh outdoor environments. Covered by a 5 year Limited Warranty from the factory, our readers run 24 hours a day, seven days a week.

Special features
BAI readers can operate in “standalone” mode where they control a gate directly. Program the reader with valid ID numbers and it will open the gate for each authorized vehicle. Unauthorized vehicles are not allowed to enter. This is a popular feature, since you only need the reader and a gate operator to control access to your property.

Customize your decals
BAI offers 56 different color combinations to choose from, so pick the decal colors that suit you. Some people like the decal to be dark and hard to see, while others want the decal to be bright and in-your-face obvious. All decal colors work equally well with the reader, so you can use any or all of the decal color combinations. The choice is yours – pick the colors that you want to see on your vehicles.

Decals can also be customized with logos, images and text to suit your needs. Parking and entry stickers are already used at many places, including schools, universities, golf & country clubs, etc. BAI barcode decals can be customized to create a decal for automated gate entry that also allows visual spot-checking by security personnel. Different decal colors can be used to identify specific groups such as members or staff. Of course, different colors can also be used to designate a specific parking location, such as “green spaces only” for a green sticker.

Expiration dates or special characters can be added to show how long a decal is valid. These are just a few examples, there are many ways to customize the vehicle decals for your exact needs. If you would like assistance in creating a custom decal, contact BAI at 800-528-9167.

For more information, visit us on the Web at www.barcode-automation.com.
BA-440 DualBeam Barcode Reader by Barcode Automation, inc.

BA-440 DualBeam Barcode Reader

- ETL Listed to UL Standard 294 for Access Control equipment
- Recommended for new reader installations
- 24Vdc @ 1.5A power input
- Five year Limited Warranty
- Built-in lightning and power surge protection
- Wiegand 26 bit message output
- Configurable as a stand alone controller
- Modular construction
- Built in diagnostics
- Decals available with 56 different colors
- Ignores photocopied barcode decals

Light Source:
Visible Laser Diode
Output Wavelength (nominal): 658 nM
CDRH Safety Class II
Output Power: less than 1mW/cm2

Read Zone:
Horizontal read area: 24” to 72” (61 to 182 cm) out from the reader, measured from the window.
Vertical read area: at 24” from the reader, vertical read zone is between 36” and 65” above the ground.

Decals:
56 different color combination decals are available. Reader can also use decals from other equipment manufacturers, such as Accu-Sort, Amtel, ISI, & LazerData. The AFC decal format is not supported.

Communication Outputs:
RS232 Serial port and USB port:
Data Rate: 2400, 4800, 9600, 19200, 38400 Baud
Parameters: 8N1, 7E1
Standard 26 bit Wiegand Message

Read Indicator:
Audible beep for successful read of a decal

Power Input:
Voltage input: 24 Vdc Only @ 1.5A max
Power: 36 Watts max

Environmental:
Operating Temperatures: -22 to 130° F (-30 to 55° C)
Relative Humidity: 10% to 100% (non-condensing)
Mechanical Specifications: NEMA 4
BA-440 DualBeam Barcode Reader Installation photos
BA-220 DualBeam Barcode Reader

- ETL Listed to UL Standard 294 for Access Control equipment
- Recommended as replacement for BA-200 Reader
- Standard 115VAC power input or factory installed 24Vdc input
- Five year Limited Warranty
- Built-in lightning and power surge protection
- Wiegand 26 bit message output
- Configurable as a stand alone controller
- Modular construction
- Built in diagnostics
- Decals available with 56 different colors
- Ignores photocopied barcodes

Light Source:
Visible Laser Diode
Output Wavelength (nominal): 658 nM
CDRH Safety Class II
Output Power: less than 1mW/cm2

Read Zone:
Horizontal read area: 24” to 72” (61 to 182 cm) out from the reader, measured from the window.
Vertical read area: at 24” from the reader, vertical read zone is between 36” and 65” above the ground.

Decals:
56 different color combination decals are available. Reader can also use decals from other equipment manufacturers, such as Accu-Sort, Amtel, ISI, & LazerData. The AFC decal format is not supported.

Communication Outputs:
RS232 Serial port and USB port:
Data Rate: 2400, 4800, 9600, 19200, 38400 Baud
Parameters: 8N1, 7E1
Standard 26 bit Wiegand Message

Read Indicator:
Green light for successful read of a decal

Power Input:
Voltage input: 115 VAC single phase @ 50/60Hz, 0.8A
Factory installed Option: 24Vdc input @ 2.5 A max

Environmental:
Operating Temp: -22 to 130° F (-30 to 55° C)
Relative Humidity: 10% to 100% (non-condensing)
Mechanical Specifications: NEMA 4
BA-220 DualBeam Barcode Reader Installations

Barcode Automation, inc.

DualBeam

12.00" 20.00"

7.00"

Side  Front
Vehicle Decals for BAI Barcode Readers

- Developed specifically for use with BAI readers
- Constructed of tough weatherproof material
- 2 year Limited Warranty, 5 year life expectancy
- 56 different color combinations available
- Decals can be customized with logos, images and text
- No setup charges on custom orders
- Fast turnaround and delivery
- Sample at left is Actual Size (3.7” x 2.5”)

Barcode Automation Vehicle Decals

Barcodes can be printed in any combination of one stripe color on one background color.

<table>
<thead>
<tr>
<th>Stripe Colors</th>
<th>Background Colors</th>
</tr>
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<tbody>
<tr>
<td>Black</td>
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<tr>
<td>Orange</td>
<td>Red</td>
</tr>
<tr>
<td>Red</td>
<td>Magenta</td>
</tr>
</tbody>
</table>

Actual Colors May Vary

Custom Decal Examples:

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