



Subject: BGR700 Product
Manual

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BGR700

Boarding Gate Reader

Product Manual

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Warnings

This manual contains important information regarding the installation and operation of the BGR700 compact boarding pass reader. For safe and reliable operation of the imager, installers must ensure that they are familiar with, and fully understand, all instructions contained herein.

Warranty

Access Ltd warrants that this product shall be free from defects in workmanship and materials for a period of one year from the date of original purchase. If the product should fail to operate correctly in normal use during the warranty period, Access will replace or repair it free of charge. No liability can be accepted for damage due to misuse or circumstances outside Access' control. Access will not be responsible for any loss, damage or injury arising directly or indirectly from the use of this product. Access' total liability under the terms of this warranty shall in all circumstances be limited to the replacement value of this product.

Radio Frequency Energy

European EMC directive 89/336/EEC

This product may cause interference if used in residential areas. Such use must be avoided unless the user takes special measures to reduce electromagnetic emissions to prevent interference to the reception of radio and television broadcasts.



FCC Compliance Statement (United States)

This equipment generates, uses and can radiate radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio communication. It has been tested and found to comply with the limits for a class A computing device in accordance with the specifications in Subpart J of part 15 of FCC rules, which are designed to provide reasonable protection against such interference when the equipment is operated in a commercial environment. Operation of this equipment in a residential area may cause interference, in which case the user at his own expense will be required to take whatever measures may be necessary to correct the interference. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Canadian Department of Communications RFI statement

This equipment does not exceed the class A limits for radio noise emissions from digital apparatus set out in the radio interference regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le règlement sur le brouillage radioélectriques publié par le ministère des Communications du Canada.

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1. Overview

The BGR700 is a robust boarding gate reader for 2D-barcoded boarding passes, designed specifically with a large throat to allow truly intuitive use with all media types including the latest mobile devices and smartwatches.

The BGR700 reads boarding passes presented face up at any angle to ensure fast and intuitive passenger processing. Speed of transaction is enhanced by near-zero latency, so that barcodes are read instantly on presentation. A display, which can be easily read over a wide range of angles and in bright ambient lighting conditions, presents information from the boarding pass to the operator and passenger.

Designed for future-proof operation, the BGR700 can be upgraded for contactless near-field communication (NFC) operation in the field. This allows it to cater for the latest developments in NFC-enabled mobile devices and contactless smartcards.

- Fast, omnidirectional 1D/2D barcode imager.
- Easy-to-read colour LCD display (480 x 272 px) for passenger information.
- Large document throat allows smartphones, tablets, and smartwatches to be easily read.
- Reads a barcode printed at any position on an A4 (European) or Letter (American) document.
- Wide face-up 'read zone' allows for intuitive use and fast barcode reads.
- Reads IATA-recommended PDF417, QR, Aztec and other 2D and linear symbologies.
- Configurable green and red indicator beacons and audio beeper to confirm successful data capture.
- A wide range of configurations are available for connection to Common Use Terminal Equipment (CUTE®) or dedicated systems.
- RS232 or USB connection to host.
- RS232 serial port for receipt printer functionality, for example, seat, flight and passenger data from M1 format barcode documents.
- Upgradeable software.
- Ethernet port and three USB ports (for future use).
- Optional quick release bracket for secure mounting.



Figure 1: BGR700 compact boarding pass reader

2. Specifications

Specification	Details
Dimensions (W x H x D)	135 x 184 x 214 mm
Weight	1215 g
Environmental	Operating temperature: 0°C to 50°C Storage temperature: 0°C to 60°C Humidity: 0–95% RH, non-condensing
Body	Robust ABS enclosure with no moving parts
Passenger/agent display	Display: Colour LCD (480 x 272) Visible/audible: Configurable green (good read) and red (bad read) indicator beacons and audio beeper
Power requirements	Input voltage: 12 V DC; power adapter supplied
Interface	Host interfaces: RS232C (baud rates 9600, 19200, 38400, 115200), Ethernet, USB Serial port: For receipt printers, including the RP9000 or self-boarding gate applications 3 x USB ports
Barcode reading	Compliance: Supports all necessary AEA2012 symbologies: 1D symbologies: Code 128, Code 2 of 5, Interleaved 2 of 5, IATA 2 of 5, Code 39, EAN 2D symbologies: IATA resolution 792, QR, Aztec, PDF417 and Datamatrix codes Performance: Less than 1 second read capability
Barcode media	Will read smartphone, tablet and smartwatch displays, paper documents and tickets
Supported protocols	AirIT Ease® Amadeus ACUS® (Pending) ARINC iMuse & VMuse® (Pending) Edge CUPPS-T (Pending) RESA CREWS® (Pending) SABRE EGR® SITA Airport Connect® Ultra CUSE® (Pending)
Approvals	EMC <ul style="list-style-type: none"> FCC 47CFR Part 15 Subpart B Class A EN 55032:2015 Class A EN 55024:2010 Safety <ul style="list-style-type: none"> EN 60950-1

2.1 Part numbers

Product	Part number
Barcode only, Serial	BGR700-B-S
Barcode only, USB	BGR700-B-U
Serial and power cable	5KBD4093
USB and power cable	5KBD4092
Printer cable	5KBD4094
Universal AC power supply	PSU12V2AB-VI
Quick release bracket	QRB700

3. Installation

3.1 Unpack the BGR700

Unpack the BGR700 and ensure that you have the following items:

- Advisory notice card.
- BGR700 device.
- Serial and power cable.

or

- USB and power cable.
- Universal 12 V AC power supply.

Report any missing items or damage immediately to your Sales Representative.

3.2 Connect the BGR700

Connectors for host, printer, Ethernet and USB are located on the back of the BGR700.

Note: The over-moulding for the host cable is colour-coded green to match label under the connector. The over-moulding for the printer cable is colour-coded blue to match label under the connector. Ethernet and USB ports are reserved for future use.

To connect the BGR700:

1. Switch off the computer.
2. Push the RJ50 connector into the host socket on the back of the BGR700 until you hear a click.
3. If using a serial cable, connect the serial connector to a COM port on the computer and finger-tighten the two thumbscrews to secure the connector to the port.

If using a USB cable, connect the USB connector to a USB port on the computer.



Figure 2: Serial connection cable



Figure 3: USB connection cable

4. Plug the power cable into the coaxial power connector on the Y-cable and then connect the Access-supplied power supply to an AC outlet.
5. Optional: Connect a printer via the RJ50 port.



Figure 4: Printer connection cable (blue)

6. Once connected to the host computer, turn on the BGR700 using the switch at the rear of the unit.



Figure 5: Location of the On/Off switch

3.3 Mount with the quick release bracket

The BGR700 is simple to install. The optional BGR700 quick release bracket provides a simple means to secure the device to a desktop or podium. The addition of the bracket prevents the hardware being accidentally knocked to the ground and damaged, potentially at a critical time in boarding. In addition, it is a deterrent against agents relocating hardware or theft.

Secure the quick release bracket to the desktop or podium using four screws (not supplied). The hole diameter in the quick release bracket is 4.2 mm.

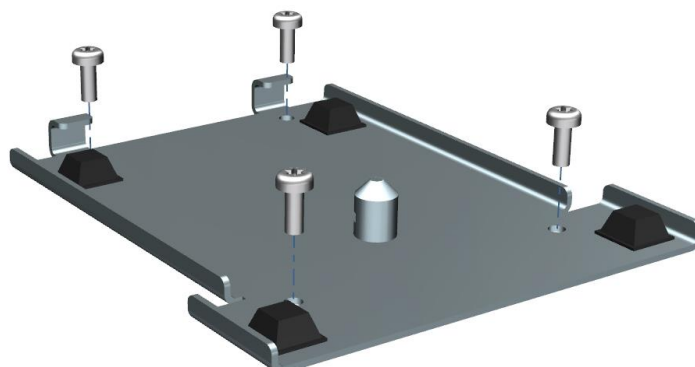


Figure 6: Positions of the screws in the quick release bracket plate

To attach the BGR700 to the quick release bracket:

1. Hook the BGR700 onto the quick release bracket plate.



Figure 7: Attaching the BGR700 to the quick release bracket

2. Rotate the BGR700 down to latch on the quick release bracket plate.
The stud engages with the slider to lock the BGR700 in place.



Figure 8: Securing the BGR700 to the quick release bracket

To detach the BGR700 from the quick release bracket:

- Push the slider in and remove the BGR700.



Figure 9: Detaching the BGR700 from the quick release bracket

3.4 Configure the BGR700

There are two methods to configure the BGR700, including setting the host protocol:

1. Using the BGR Configuration Tool, which you can download from the **Access-IS website** (<http://www.access-is.com/gettingstarted/>).
2. Using a configuration barcode provided by Access-IS.

4. Operation

To read a barcoded boarding pass, place the document face up into the barcode reader zone. As soon as a document is detected, the barcode reader's LEDs will illuminate the document.

Note: *The BGR700 will automatically illuminate a barcode on a mobile phone or PDA at a lower level than a barcode on a paper document.*

The barcode imager is omnidirectional, and a well-printed document should be read almost immediately.

Better read performance will be achieved if the document is held flat on the surface under the barcode reader.

The boarding application determines if the document is valid, and the BGR700 sends a message to the operator message display. Either the green LED (OK to Board) or the red LED (Do Not Board) is illuminated.

If the BGR700 does not appear to be working:

- Contact **Customer Support** (support@access-is.com) for further assistance.
Alternatively, use the *Contact Customer Support* page on the Access-IS website.

Note: *Do not attempt to disassemble the BGR700 if it does not operate correctly. Any attempt to do so may be dangerous and will invalidate the warranty.*

5. Maintenance

Limited maintenance of the BGR700 is required as the unit is free from moving parts and the glass window is protected.

5.1 Cleaning

General, monthly cleaning of the imager window (underside of unit) with a lint-free cloth is recommended to remove any dust and build up of debris. If the window is dirty, wipe the glass with a lint-free cloth moistened with isopropyl alcohol or use an alcohol wipe.

Do not use abrasive cleaners.

5.2 Storage

Store the unit in its original box, at a temperature of 0°C to 60°C.

A. Drawings

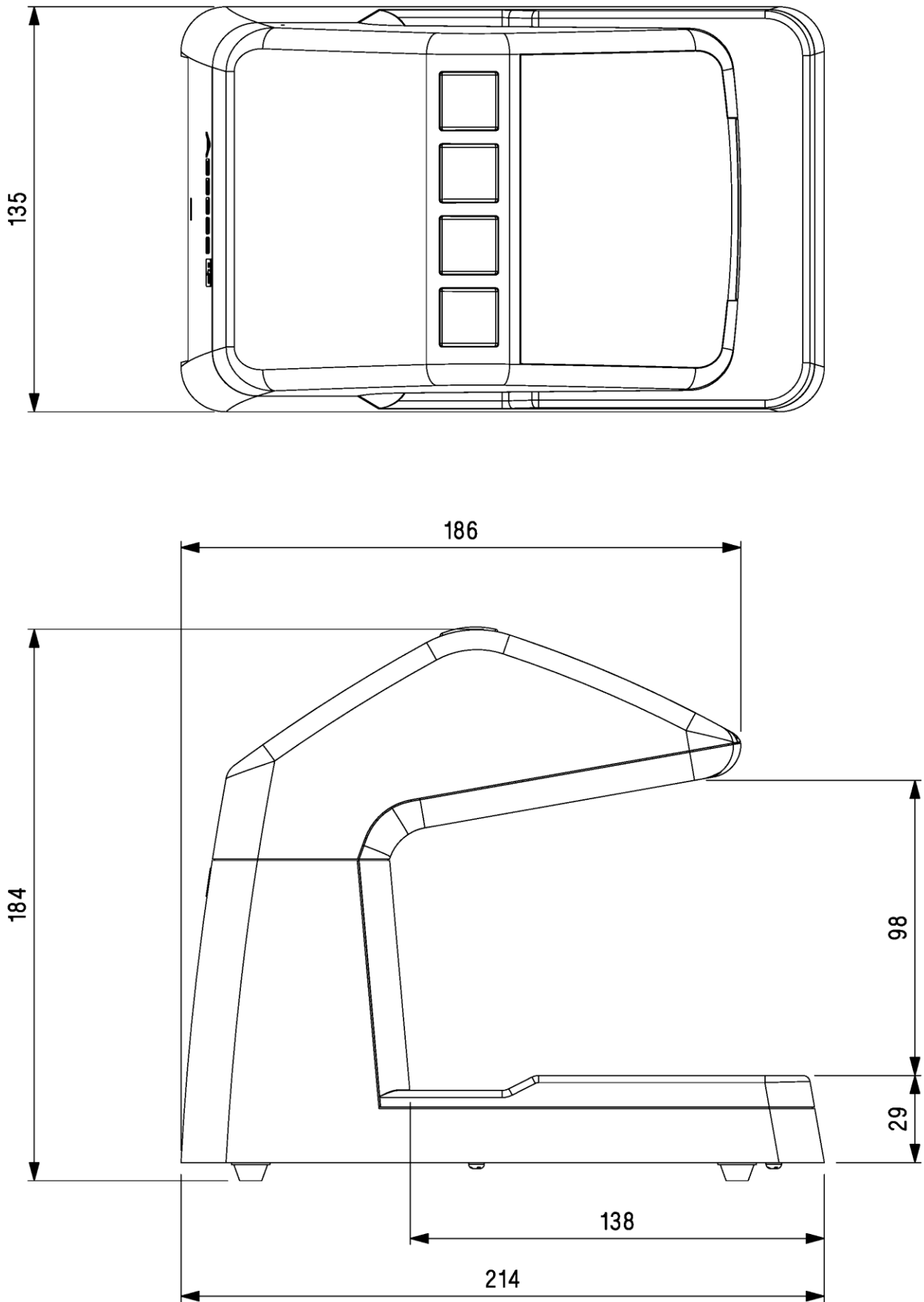


Figure 10: BGR70 dimensions

B. Document history

Revision	Date	Description
1.0	17.10.2017	First issue.