IER 602
Reader

User Guide
N0F102A

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NOTICE

⚠️ **THIS PRODUCT COMES WITH A LITHIUM BATTERY. BATTERY REPLACEMENT MUST IMPERATIVELY BE PERFORMED BY QUALIFIED MAINTENANCE PERSONNEL. MOREOVER, ONLY IER APPROVED MODELS MAY BE USED**

DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED.

REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER.

DISPOSE OF USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.

The United States Federal Communications Commission (in 47 CFR 15.105) has specified that the following notice be brought to the attention of users of this product.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help.

In accordance with FCC requirements, changes or modifications not expressly approved by IER could void the user's authority to operate this product.

Use of a shielded cable is required to comply within Class B limits of Part 15 of FCC Rules.

NORWAY: **This product is also designed for IT power distribution system with phase-to-phase voltage 230V.**

NORWAY – SWEDEN – FINLAND: **Apparaten skall anslutas till jordat uttag när den ansluts till ett nätverk.**

THIS PRODUCT MUST EXCLUSIVELY BE CONNECTED TO AN ELECTRICAL CIRCUIT CONFORMING WITH THE VOLTAGE CHARACTERISTICS SPECIFIED BY THE NF EN 50160 STANDARD.

In compliance with the European Directive 2002/96/CE relative to the management of Waste Electrical and Electronic Equipment (WEEE) implemented as of August 13, 2005, this product may not be disposed of with regular household waste. All products concerned by this directive are marked with the above symbol.

The end owner of this product is responsible for either:

- *Transferring the product to an authorized treatment facility where the product components, recognized to present a hazard to the environment and/or public health, will be recycled and recovered properly, or*
- *Consulting with the manufacturer for appropriate product waste management according to the terms of the manufacturer.*

CONTENTS

1 GENERAL

1.1. General Description

The **IER 602** is primarily designed for airport applications to control access to boarding gates and check-in areas or can be used for access control to security check points. The reader can also be integrated into other public space applications, dedicated, for example, to train stations, museums, stadiums, etc.

Not only is the **IER 602** capable of scanning **1D** and **2D** barcodes printed on boarding passes, it also reads digital barcodes displayed on cell phone screens.

Moreover, the **IER 602** Reader is able to read Radio Frequency (RF) -enabled smart documents.

An optional **thermal printer** can be connected to the USB port or one of the serial ports of the **IER 602** Reader to print out a receipt confirming that the scanned barcode or RF-enabled document is valid.

1.2. User Interface

The **IER 602** Reader has a sleek box shape with a slightly slanted top which makes up the user interface.

The user interface is divided into the following two zones:

- Read zone dedicated to scanning printed barcodes or barcodes displayed on cell phone screens, as well as RF-enabled smart cards.
- User information zone made up of an LCD graphic display and a LED light bar lighting up either green or red.
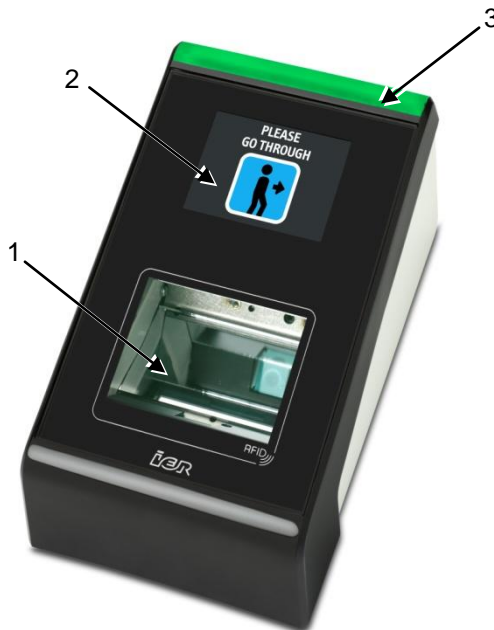
1 - Read zone
2 - User information zone
3 - LED light bar lighting up either green or red
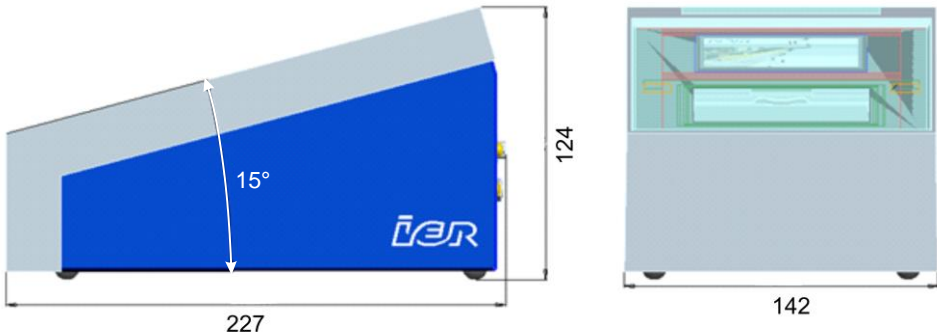
1.3. Dimensions and Weight

Depth: 227 mm (8.9 in)
Width: 142 mm (5.6 in)
Height: 124 mm (4.9 in)
Weight: 1.5 kg (3.3 lbs)
Angle of the slanted top: 15° in relation to a horizontal plane.

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1.4. Optional Thermal Printer

The optional thermal printer allows printing of documents via the **IER 602** Reader.

This optional device, an add-on, must be connected to a power source and communicates with the reader through a USB or serial connection.

Note: Refer to the thermal printer User Guide for information on device installation, operation and recommended maintenance.

2 READER CONNECTIONS

	This product must exclusively be connected to an electrical circuit provided with a ground fault circuit interrupter (GFCI) and complying with IEC 364 and NFC15-100 regulations.
WARNING	**Make sure the reader is switched off (power switch set to the 0-position) and that the power cord is disconnected.**
	It is vital to proceed in the order described.

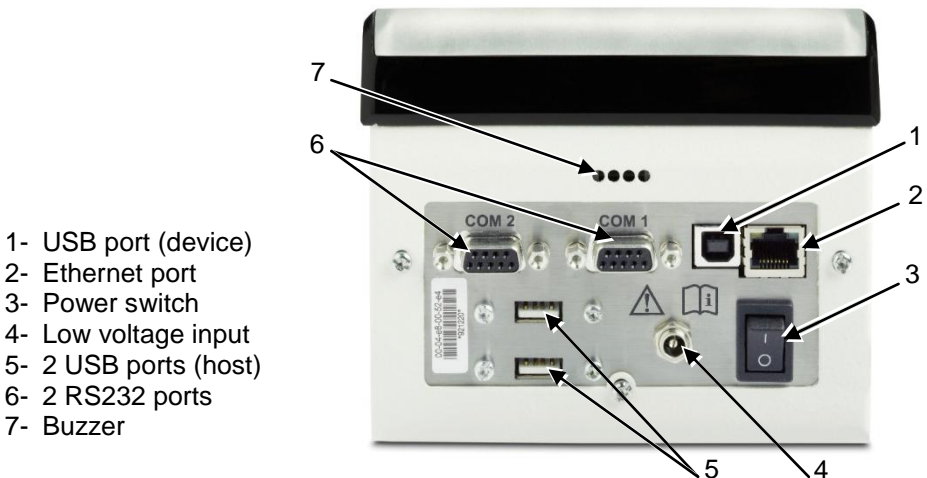|	**To comply with class B FCC regulations it is necessary to use a data cable provided with a braided shield.**
CAUTION	

2.1. Connecting the Reader

⚠️ **CAUTION**	**The IER 600 Reader switches automatically to the available AC power within the authorized voltage ranges, i.e. 100-120Vac-60 Hz or 200-240Vac-50 Hz.**

1- USB port (device)
2- Ethernet port
3- Power switch
4- Low voltage input
5- 2 USB ports (host)
6- 2 RS232 ports
7- Buzzer

To connect the reader, proceed as follows:

1) Connect the AC power connector to the low voltage input (4)
2) Choose among the ports below to connect the reader to the data communications system (PC, network):
   ➢ RS232 (6) serial ports
   ➢ USB host (5) and USB device (1) ports
   ➢ Ethernet (2) network port
3) Connect the AC power connector to the AC power source.

3 OPERATION

3.1. Operating Conditions and Power Requirements

3.1.1. Environment

Operating temperature .... +5°C to 40°C (+41°F to +104°F)
Storage temperature .... -20°C to 60°C (-4°F to +140°F)
Relative humidity .... 20% to 80%, without condensation
Operating environment...fully enclosed area
.... (airport lobby, railway station, travel agency, etc.)

3.1.2. Power Requirements

AC power voltage .... Accepted voltage ranges
.... 100-240 Vac / 50/60 Hz / 0.58A

DC power supply to the reader has the following characteristics
24 Vdc - 1 A.

3.2.   Powering up the Reader

Switch the AC power switch to the **I**-position.
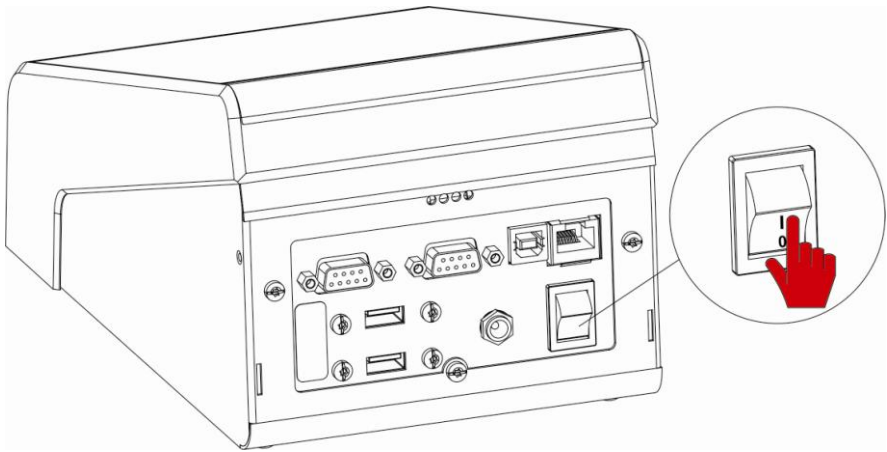
On power up, allow for an approximately 40-sec. initialization period before the **IER 602** is operational.

3.3. Barcode Scanning Recommendations

IMPORTANT

When scanning barcodes, it is important to keep the following recommendations in mind:

➢ **Present <u>one single document</u> at a time.**

➢ **Place the <u>barcode face down on and in the center of the scanner window</u>.**

➢ **Place the document horizontally on the scanner window w<u>ithout moving it</u>.**

➢ **If thin paper documents, printed on both sides, need to be scanned, strong ambient light might enhance paper translucency and interfere with correct barcode scanning.**

➢ **Therefore, IER recommends the use of document media <u>not printed on the back side</u> or at least with a <u>blank zone</u> on the back of the barcode area.**

3.4. Reading a Barcoded or RF-Enabled Document

Hold the barcoded or RF-enabled document to be read face down against the scan/read window (keeping in mind the recommendations listed page 14).

The **IER 602** responds by validating or rejecting the document which is expressed in the following ways (see Illustrations below):

➢ Through a message and a pictogram in the information zone

➢ Lighting up in green or red of the du LED light bar
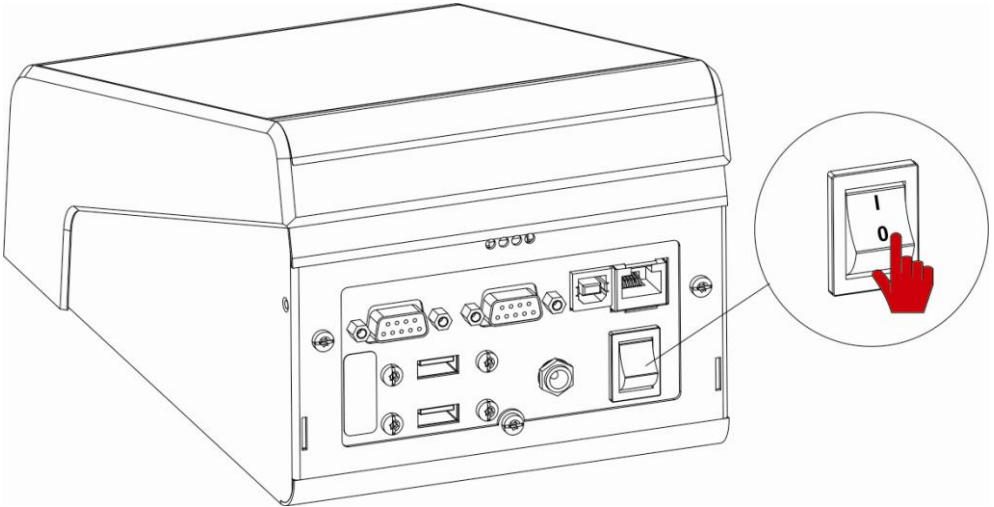
➢ Sound signal (short 🎵 or long 🔊).

DOCUMENT VALIDATED

DOCUMENT REJECTED

3.5. Powering down the Reader

Set the AC Power switch to the **0-**position.

4 MAINTENANCE

4.1.   Periodic Maintenance

To ensure optimum bar code reading, it is important to keep the scanner window clean. The decision on the periodicity of window cleaning is up to the personnel in charge of the reader.

<u>**IMPORTANT**</u>**:**

To clean the glass of the scanner window, exclusively use a soft, non-abrasive cloth containing cotton.

Only use window cleaning products.

Be careful not to splash or spray any water or cleaning product directly on the scanner window.

Always dampen the cloth with window cleaner BEFORE rubbing the glass.