



ImproX IR

Product Specification Catalogue

The **ImproX (IR) Infrared Receiver** provides compact and reliable automatic access control of vehicle gates for entry and exit.

We selected infrared technology because of its inherent immunity to electronic interference, low power costs, directional capability and ability to focus the Receiver for a particular area.

An Infrared System typically requires an incoming and an outgoing Receiver set, each consisting of an ImproX Infrared Receiver and one of the following Terminals (ImproX (TRT) Twin Remote Terminal, ImproX (TA) Time Attendance Terminal, ImproX (iTA) Industrial Time Attendance Terminal or ImproX (MfT) Multi-function Terminal) or Controllers (IXP220 Controller or ImproX IXP121 Controller).

The Infrared Receiver operates by receiving a Transmitter signal from the approaching vehicle. The detected signal is sent to the attached Terminal or Controller and thereon, via the RS485 Terminal Bus, to the IXP120, IXP220, IXP300 or IXP400 Access Control System. The IXP System decodes the received vehicle identification and, if valid, issues a command opening the gate. In the event of an invalid code, or no code, being received the System will NOT respond and the gate remains closed.

Key Features

- 15 m (16 yd) Read range, outdoors, line of sight.
- Inherent immunity to electronic interference.
- Ability to focus the Receiver for a particular area.
- Operates using 5 V DC, supplied by the Terminal or Controller.
- Compatible with the IXP120, IXP200, IXP300 and IXP400 range of Access Control Equipment.
- Built-in Sun Shield.

ImproX (IR)

Infrared Receiver

ITR901-0-0-GB-XX

Physical Specifications

Length	: 16 cm (6 in).
Width	: 9 cm (3 in).
Height	: 15 cm (6 in).
Approximate Weight	: 422 g (15 oz).
Housing Material	: ABS Plastic.
Colour	: Grey and Black.

Environmental Specifications

Operating Temperature	: -25°C to +60°C (-13°F to +140°F).
Storage Temperature	: -40°C to +80°C (-40°F to +176°F).
Humidity Range	: 0 to 95% relative humidity at +40°C (+104°F) non-condensing.

Approvals

CE Approval	: EN 301 489-1. EN 301 489-3.
FCC Approval	: Pending.
Dust & Splash Resistance	: The Receiver is designed to work in an indoor or outdoor environment similar to IP55. The Receiver is sealed against water.
Drop Endurance	: 2 m (7 ft) drop (in packaging).

Electrical Specifications

Power

Input Voltage	: 5 V DC.	
Power Requirements	Current (mA)	Power (W)
Input Voltage 5 V DC	: 3	0.015

RS485 Port

Data Format	: Manchester Encoded.
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Related Information

For extra information relating to this product refer to the:

- ImproX IR Hardware Installation Manual (ITR302-0-0-GB-XX).

Ordering Information

Order the ImproX (IR) Infrared Receiver using the following Part Number:

- ITR901-0-0-GB-XX: ImproX (IR) Infrared Receiver.

Warranty Details

This product conforms to our Warranty details on www.impro.net.

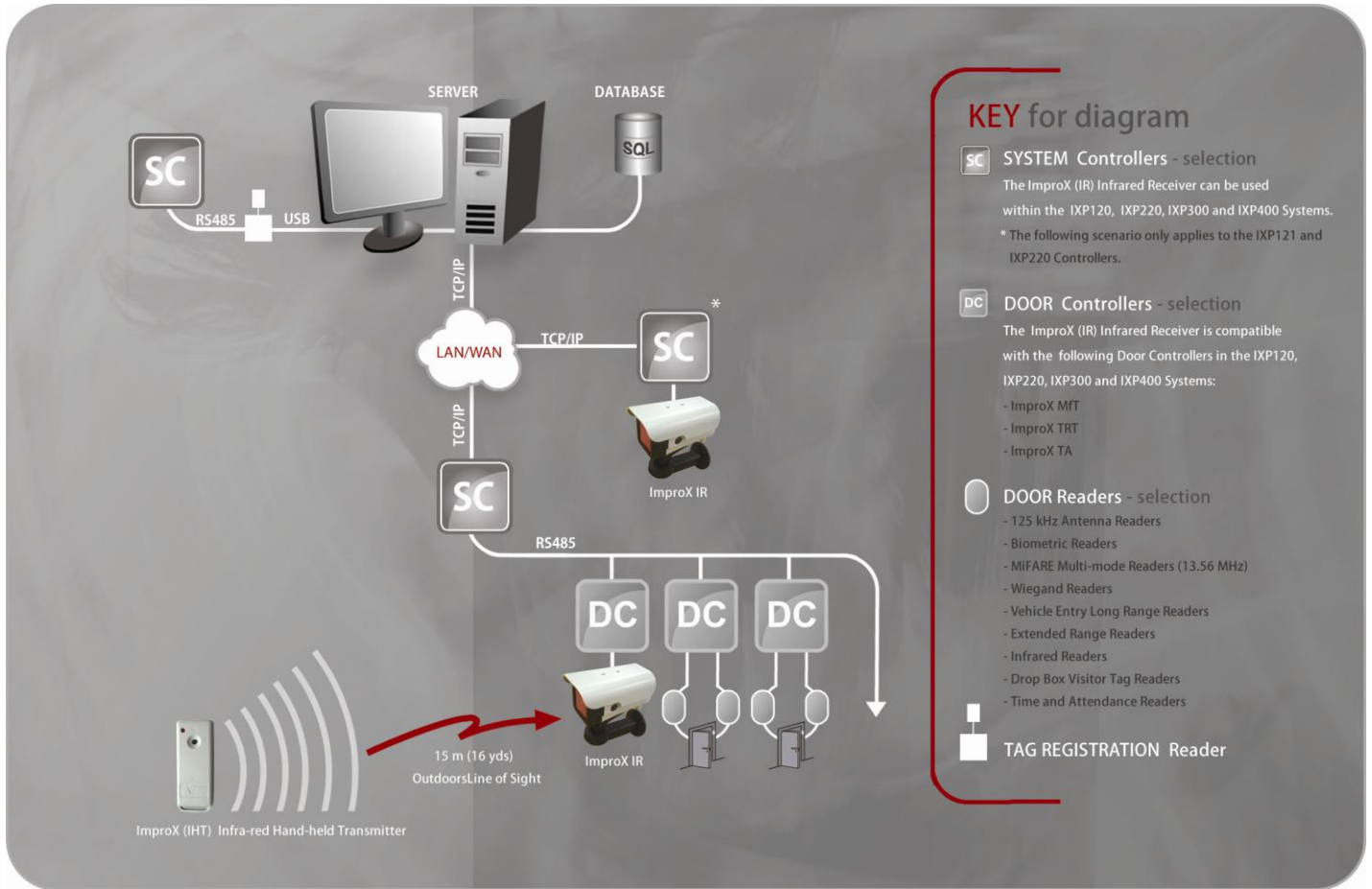


Figure 1: ImproX IR Overview

This Product Specification Catalogue applies to the ImproX (IR) Infrared Receiver, ITR901-0-0-GB-00.
(The last two digits of the Impro stock code point to the issue status of the document or product).