



ImproX OEM IR

Product Specification Catalogue

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

Infrared technology is inherently immune to electronic interference and has directional capability giving the ability to focus the Receiver at a particular area.

The OEM Receiver has the option to communicate via Wiegand, RS232 or RS485 and uses the published Uni-Scan and Wiegand Protocols.

The Receiver is housed in an IP65 waterproof housing allowing it to be used in indoor or outdoor applications. The OEM Receiver is compatible with the ImproX Infrared transmitter (IVT900-1-0-GB-XX) and offers a typical read range of 15 m (16.40 yd) outdoors line of sight.

The Receiver is ideal for applications requiring button-less authenticated access control.

The Infrared Transmitter operates by transmitting a unique code; the Receiver receives and decodes this unique code, sending the code back to the control unit via the Uni-Scan Protocol.

Key Features

- 15 m (16.40 yd) Read range, outdoors, line of sight.
- Operates using an input voltage of 10 V DC to 16 V DC.
- Built-in Sun Shield.
- Immune to electronic interference.
- Ability to focus at a particular area.
- Communicates via Wiegand, RS232 or RS485.

ImproX (IR)

OEM Infrared Receiver

ITR902-0-0-GB-XX

Physical Specifications

Length	:	16 cm (6 in).
Width	:	9 cm (3 in).
Height	:	15 cm (6 in).
Approximate Weight	:	433 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	:	10 V DC to 16 V DC.	
<i>Power Requirements</i>		Current (mA)	Power (W)
Input Voltage 10 V DC	:	17	0.17
Input Voltage 16 V DC	:	17	0.27

RS485 Port

Baud Rate	:	9 600.
Data Format	:	8 data bits, 1 stop bit, no parity bit.
Communications Protocol	:	ASCII (no commands can be received).

RS232 Port

Baud Rate	:	9 600.
Data Format	:	8 data bits, 1 stop bit, no parity bit.
Interface Protocol	:	ASCII (no commands can be received).

Wiegand Bus

Data Format	:	26-bit or 44-bit.
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User Interfaces

Buzzer

Volume and Tone : Single volume, single tone.

Status Indicator

Status LED : Red LED.

Related Information

For extra information relating to this product refer to the:

- ImproX IR OEM Hardware Installation Manual (ITR301-0-0-GB-XX).

Ordering Information

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

- ITR902-0-0-GB-XX: ImproX (IR) OEM Infrared Receiver.

Warranty Details

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

This Product Specification Catalogue applies to the ImproX (IR) OEM Infrared Receiver, ITR902-0-0-GB-00.
(The last two digits of the Impro stock code point to the issue status of the document or product).

ITR351-0-0-GB-03

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