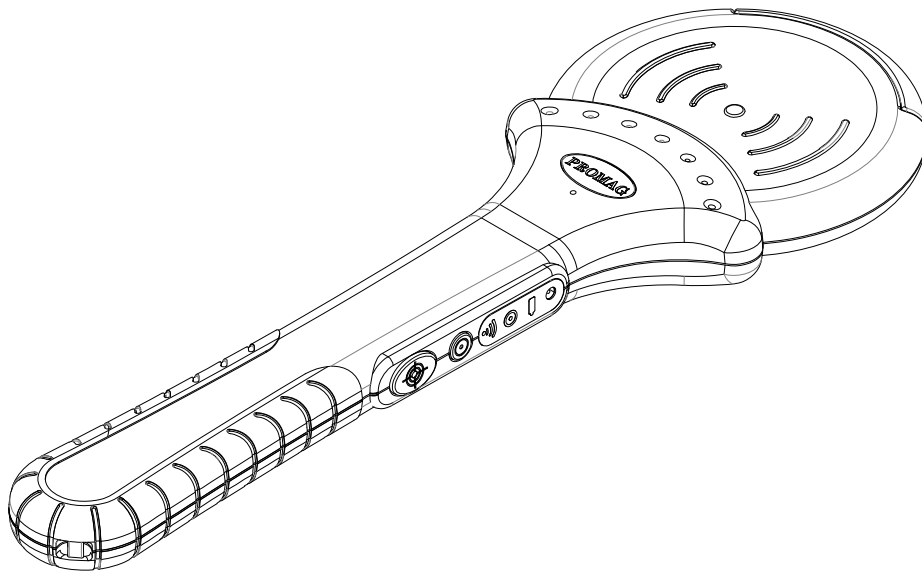


PWD100

UHF RFID Reader

User Guide



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Introduction

A Gun Type Ultra High Frequency RFID Reader

PWD100 Reader is a compact RFID reader with the antenna and has a reading range up to 300 centimeters.

The reader is ideal for inventory control, cargo tracking, warehouse management, class management and other applications.

The utility software is supplied with the reader for configuration and demo operation.

This guide is for easy installation, configuration and demo operation of the PWD100 Reader.

Safety Certifications



Has been tested in accordance to essential protection requirements of the R&TTE Directive 1999/5/EC on the approximation of the laws of the Member States relating to Radio Spectrum Matters and found the test results indeed meet the limitation of the relevant test standard(s) listed below:

EMC	Radio Spectrum	Safety
EN 301 489 - 1: V1.8.1 (2008)	EN 302 208 - 2: V1.3.1 : 2010	EN 60950 - 1: 2006+A11 : 2009+A1 : 2010
EN 301 489 - 3: V1.4.1 (2002)	EN 302 208 - 1: V1.3.1 : 2010	



Test standard: FCC rules Part 15 subpart C 15.247 (2015)

Test Result: No deviations from the technical specification(s) were ascertained in the course of the tests performed.

Test standard: FCC rules Part 15 subpart B

Test Result: Radiated Emission. FCC Part 15. 109 Class B. Test passed.

Federal Communication Commission Interference Statement

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 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.

FCC Caution: To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) This device may not cause harmful interference and (2) This device must accept any interference received, including interference that may cause undesired operation.

Package Contents

PWD100 Reader standard package:

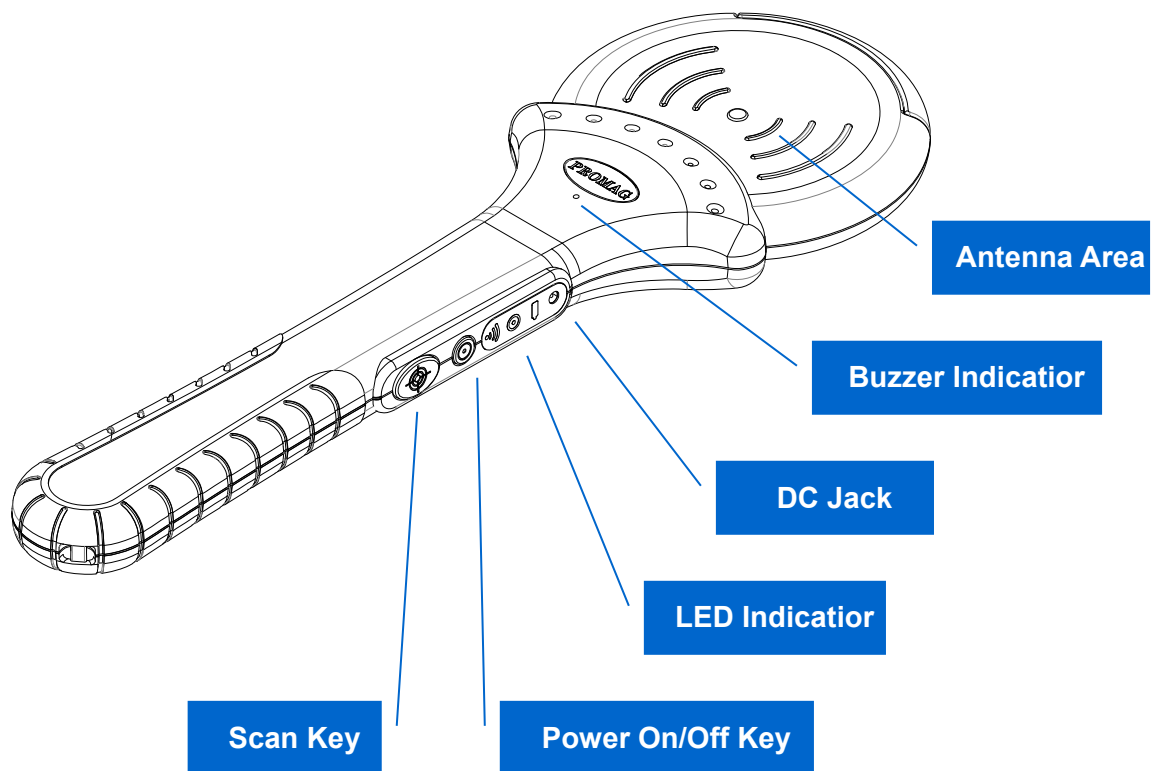
No.	ITEM	QUANTITY
1	PWD100 UHF RFID Reader	1
2	User guide	1
3	Power cable	1

Hardware

Specification :

CURRENT CONSUMPTION	65 mA AVG @ Standby mode 500mA AVG @ Scan mode
RFID PROTOCOL SUPPORT	EPC Class 1 Gen 2, ISO18000-6C
SUPPORT EPC DRM	YES
FREQUENCY	US: 902~928 MHz EU: 865~868 MHz
DEMODULATION	ASK or PRASK
DATA ENCODING	FM0 or Miller code
BACKSCATTERING LINK FREQUENCY	Supports uplink data rate of 40, 80, 160, 256, 320, 640 Kbps
OUTPUT POWER	10~27dBm
ANTENNA POLARIZATION	RHCP
Battery	LI-on 2500mAh
HOST INTERFACE	Bluetooth (Virtual COM port settings: 115200 bps,N,8,1)
DIMENSIONS	180 x 75 x 70 mm
WEIGHT	220 gm
ENVIRONMENT	Operating Temp : -0°C ~ +50°C Humidity : 10 ~ 90 % Non-condensing

PWD100 Overview



Set up PWD100

To use PWD100 with your computer, you need a PC with a Bluetooth and one of the following operating systems:

- Windows 7 / 8 / 8.1/10

Charge :

Use USB power cable connector to PWD100 DC power jack and PC USB port.

Link :

Finish make a pair with Bluetooth, Open the DEMO software and select corresponds to the communication port.

LED / BUZZER Indicators

Charge:

STATUS DESCRIPTION	GREEN LED	RED LED	BUZZER
Charge	ON	OFF	OFF
Charge OK	OFF	OFF	OFF
Charge NG	OFF	ON	OFF

Bluetooth:

STATUS DESCRIPTION	GREEN LED	RED LED	BUZZER
Standby	Continuous Slow blink	OFF	OFF
Link OK	Continuous Blink twice	OFF	OFF

Scan:

STATUS DESCRIPTION	GREEN LED	RED LED	BUZZER
Standby	OFF	OFF	OFF
Scanning	Blink	OFF	OFF

Search:

STATUS DESCRIPTION	GREEN LED	RED LED	BUZZER
Searching (No Detect Tag)	OFF	OFF	OFF
Search OK	Blink 1 time	OFF	Beep one time

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