

RLT0 Reader Wand

XRS



User Manual

Ver 1.0

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Preface

CE Conformity Statement

Radio products with the CE alert marking comply with the R&TTE Directive (1999/5/EC) issued by the Commission of the European Community. Compliance with this directive implies conformity to the following European Norms (in brackets are the equivalent international standards).

- EN 60950-1 (IEC60950-1) - Product Safety
- EN 300 328 Technical requirement for radio equipment
- ET S301 489 General EMC requirements for radio equipment

Products that contain the radio transmitter are labeled with CE alert marking and may also carry the CE logo.

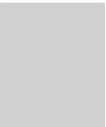
FCC Compliance Statement

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;
2. This device must accept any interference received, including interference that may cause undesired operation.

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. 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 and correct the interference by one or more of the following measures:

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful



You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

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 computer technician for help

Copyright Statement

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Safety Instructions

Use the following safety guidelines to help protect yourself and X10D.

- Do not attempt to service the X10D yourself. Always follow installation instructions closely.
- Be sure that nothing rests on the AC adapter's power cable and that the cable is not located where it can be tripped over or stepped on.
- Do not cover the AC adaptor with papers or other items that will reduce cooling; also, do not use the AC adapter while it is inside a carrying case.
- Use only the AC adapter, power cord, and batteries that are approved for use with this X10D. Use of another type of battery or AC adapter may cause risk of fire or explosion.
- If you use an extension cable with the AC adapter, ensure that the total ampere rating of the products plugged in to the extension cable does not exceed the ampere rating of the extension cable.
- When you move the X10D between environments with very different temperature and/or humidity ranges, condensation may form on or within the X10D. To avoid damaging the X10D, allow sufficient time for the moisture to evaporate before using the X10D.
- When you disconnect a cable, pull on its connector or on its strain relief loop, not on the cable itself. As you pull out the connector, keep it evenly aligned to avoid bending any connector pins. Also, before you connect a cable make sure both connectors are correctly oriented and aligned.

CAUTION: To reduce the risk of fire, use only No.26 AWG or larger (e.g., 24 AWG) UL Listed or CSA Certified Telecommunication Line Cord.

Battery Safety

RTC Battery Caution

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

- Do not place the battery incorrectly as this may cause danger of explosion.
- Dispose of used batteries according to the manufacturer's instructions.
- Do not dispose of batteries in a fire. They may explode. Check with local authorities for disposal instructions.

Battery Pack Caution

- The battery used in this device may present a risk of fire or chemical burn if mistreated. Do not disassemble, heat above 50°C, or incinerate. Replace battery with 46-12381-030 Li-ion 11.1V 4800mAh Cell Panasonic SMP only. Use of another battery may present a risk of fire or explosion.
- Dispose of used batteries according to local disposal regulations. Keep away from children. Do not disassemble and do not dispose of in a fire.

Battery Charge Notice

It is important to consider the environment temperature whenever you are charging the Lithium-Ion battery pack. The process is more efficient at normal room temperature or slightly cooler. It is essential that you charge batteries within the stated range of 0°C to 50°C. Charging batteries outside of the specified range could damage the batteries and shorten their charging life cycle.

Storage and Safety Notice

Although charge Lithium-Ion batteries may be left unused for several months, their capacity may be depleted due to the build up of internal resistance. If this happens they will require recharging prior to use. Lithium-Ion batteries may be stored at temperatures between -20°C to 50°C , however they may be depleted more rapidly at the high end of this range. It is recommended to store batteries within normal room temperature ranges.

Rugged and Ready to Go

Congratulations on your purchase of the XRS RFID reader wand. This product combines rugged design with reliable performance and powerful functionality to best suit all your needs, in a wide range of working conditions.

This user manual outlines all you need to know to set up and use your XRS.

Symbols Used in this Manual



Denotes information that must be observed. Failure to do so may result in personal harm or damage to the product.



Denotes useful information that should be noted to ensure you get the most out of the product.

Product Features

- Rugged design, up to military standard (MIL-STD-810F)
- Durable, shock-resistant magnesium alloy housing
- Built-in Bluetooth functions
- IP67 compliant & built to withstand a 4 foot drop

Package Contents

Ensure all the following items are present when you receive your XRS. If any of these items are missing, contact your vendor immediately.

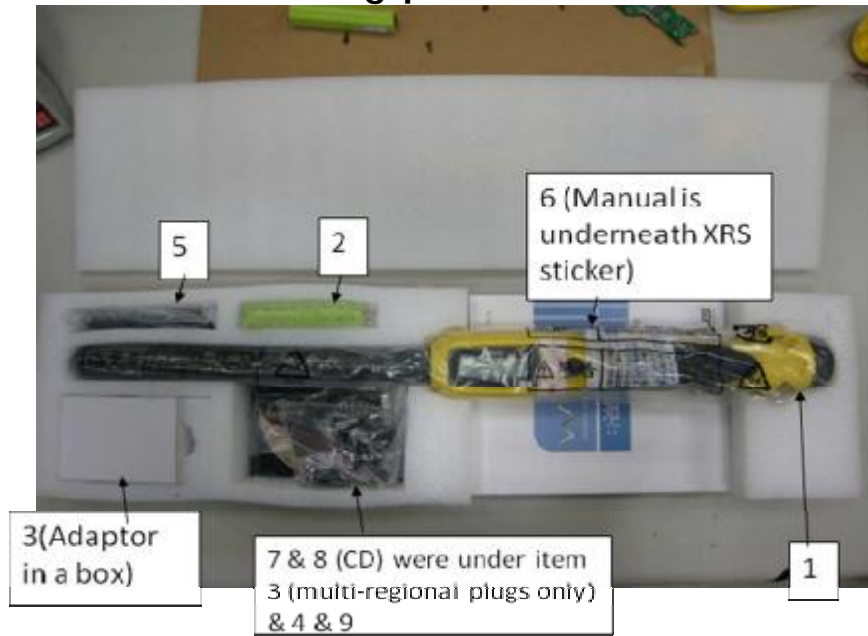


Screens used in this manual are for illustrative purposes only. Actual screens may vary based on your product version.

Standard Packing Contents

Item	Standard SKU
1	XRS Stick Reader
2	Battery Pack (#1)
3	Power adaptor (Multi-regional)
4	Data cable (DB-9 to 4 pin)
5	DC adaptor cable (DC jack to 4 pin)
6	User Manual (includes warranty card)
7	Pinnacle Express software on CD
8	Pinnacle Animal Management System 30 day trial (CD)
9	12V Battery Power cable (Twinflex)

Standard Packing placement



- Picture of the inner placement for Packaging box:



- Photo of the inner placement for Packaging box:

- Photo of items for Packaging box:



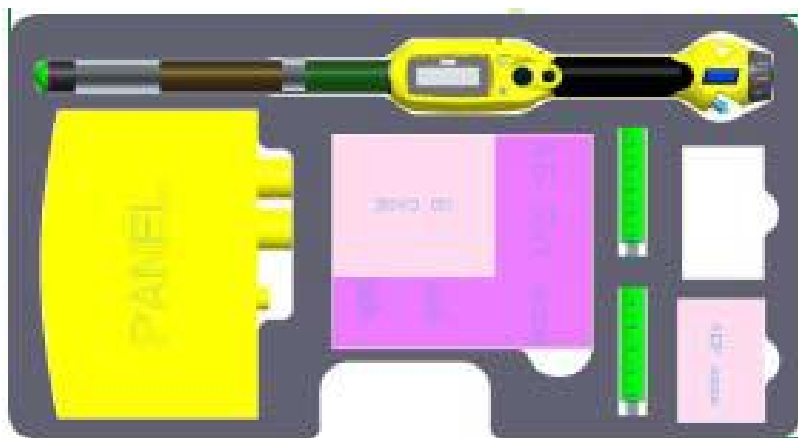
- Battery and Wires as accessories in the packing carton.



- Power Adaptor in a box and 4 multi-regional plugs (incl. AUS, US, UK, EU power plugs)

Premium Packing Contents

Premium SKU	Quantity
XRS Stick Reader	1
Battery Pack	2
Power adaptor (Multi-regional)	1
Data cable (DB-9 to 4 pin)	1
DC adaptor cable (DC jack to 4 pin)	1
User Manual (includes warranty card)	1
Test Tag	1
Pinnacle Express software on CD	1
Pinnacle Animal Management System 30 day trial (CD)	1
Fast charging desk charger	1
Cigarette lighter 12V charger	1
12V battery power cable (battery clips to DC plug)	1



- Drawing showing Inner placement for Carry Case.



- Carry Case Photo

Optional Accessories

- Desktop Charger
- Car Adaptor

Exploring the XRS

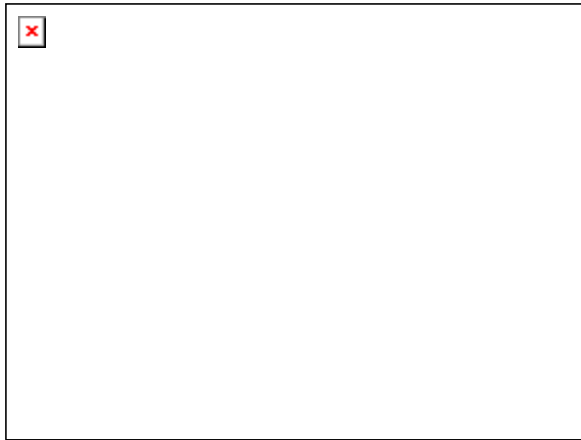
Front View



- XRS product overview

No.	Component
1	RFID Antenna & Ferrite Rod
2	Two LED indicators
3	Power button & Scan button
4	Data entry button
5	Built-in buzzer & motor
6	Battery Cap
7	4-pin connector with protective cap for charging and serial communication
8	LCD screen

Side Views



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- XRS product overview

Maintenance

Maintaining the Battery

- Do not expose heat or attempt to disassemble the battery, and do not place the battery in water or in a fire.
- Do not subject the battery to strong impact, such as a blow from a hammer, or stepping on or dropping it.
- Do not puncture or disassemble the battery.
- Do not attempt to open or service the battery.
- Replace only with batteries designed specifically for this product.
- Keep the battery out of reach of children.
- Dispose of used batteries according to local regulations.

Maintaining the LCD Display

- Do not scratch the surface of the screen with any hard objects.
- Do not spray liquid directly on the screen or allow excess liquid to drip down inside the device.
- Do not place anything, such as food and drink, on the screen at any time to prevent damage to the screen.
- Clean the LCD display only with a soft cloth dampened with denatured alcohol or a proprietary LCD screen cleaner.

Cleaning the X10D

1. Turn off the X10D and unplug the power cord.
2. Wipe the screen and exterior with a soft, damp cloth moistened only with water. Do not use liquid or aerosol cleaners on the screen, as these will discolor the finish and damage the screen.

Appendix

Specifications

Items	Description
Model Name	LF RFID Reader Wand
Operating Frequency	134.2KHz
RFID compatibility	ISO 11784 & 11785, FDX-B and Industrial HDX
Reading Distance	<u>Read distance at 9.6 VDC: Full power mode:</u> 35cm (HDX tag), 20 ~ 25cm for (FDX-B tag) <u>Read distance at 9.6 VDC Lower power mode:</u> 10cm (HDX tag and FDX-B tag) <u>Read zone:</u> 360deg in radial and axial planes with respect to the end of the reader enclosure <u>Interrogation rate:</u> ~ 9 times/sec
Memory	For 10000 tags plus date/time stamp
Display	LCD mono display 122 x 32 with backlit
Clock	Real time clock
Communication	Bluetooth class 1 built-in with integral antenna
Button	Power On/Scan button x 1 Data Entry button x 1
Status Indicator	Scanning & read fail LED Scanning successful LED
Main Battery	Removable NiMH battery with 8hrs battery life (GP91AAALH x 8 cells)
Power Adapter	Universal AC 100V ~ 240V, 50~60Hz input, 13V, 2.3A output.
Physical	780g, 650mm long
Environment	Operating Temperature: -20 to +60C Storage Temperature -40 to +70C Charging Temperature 0 to +50C Operating Humidity 5% ~ 95% none condensing

Items	Description
Rugged Specification	MIL-STD-810F, method 516.5, Procedure. 18 drops from 4 feet onto plywood over concrete IP67
Certification	CE, R&TTE, FCC, C-Tick, Z913
Accessories	AC-Adapter & power cord Transfer cable (Standard DC jack to 4-pin, 1 foot) Data Cable(RS232 DB9 to 4-pin, 2m)
Optional Accessory	Fast 3-in-1 charger Car Adaptor Spare battery