Contents

1. Introduction

The PT Series portable data collectors (PDC) are economical and provide superior specifications: a 32-bit CPU that provides exceptional processing speed, a 1MB RAM for managing large databases (2MB for PT-12 / 4MB for PT-18), and 1MB ROM of flash memory for application programs (2M for PT-18). A high-performance long range CCD scanner lets you read barcodes from distances up to 13 inches (33cm).

The PT Series offer powerful hand-held data capture tools based on bar code scanning technology. These PDCs allow you to collect bar code data from remote locations and store the data until you upload it to a computer system for analysis. The Argox PT Series PDCs are ideal for data management and can increase accuracy anywhere in the supply chain. Applications include inventory control at warehouses, supermarkets, restaurants, and hospitals.

This Quick Reference Guide describes three models, the PT-10, PT-12 and the PT-18. The PT-10 is powered using two AA alkaline batteries. The PT-12/PT-18 is powered with rechargeable batteries, and comes with a charging cradle and rechargeable battery pack.

Additionally, the PT-18 is upgraded model base on PT-12. Except larger memory, the PT-18 is with IR interface to allow wireless communication.

2. PT Series Accessories

When you first unpack your PT-Series PDC, please check the contents of the package and compare it to that model's content listed below. The PT-10, PT-12 and PT-18 models come with different accessories.
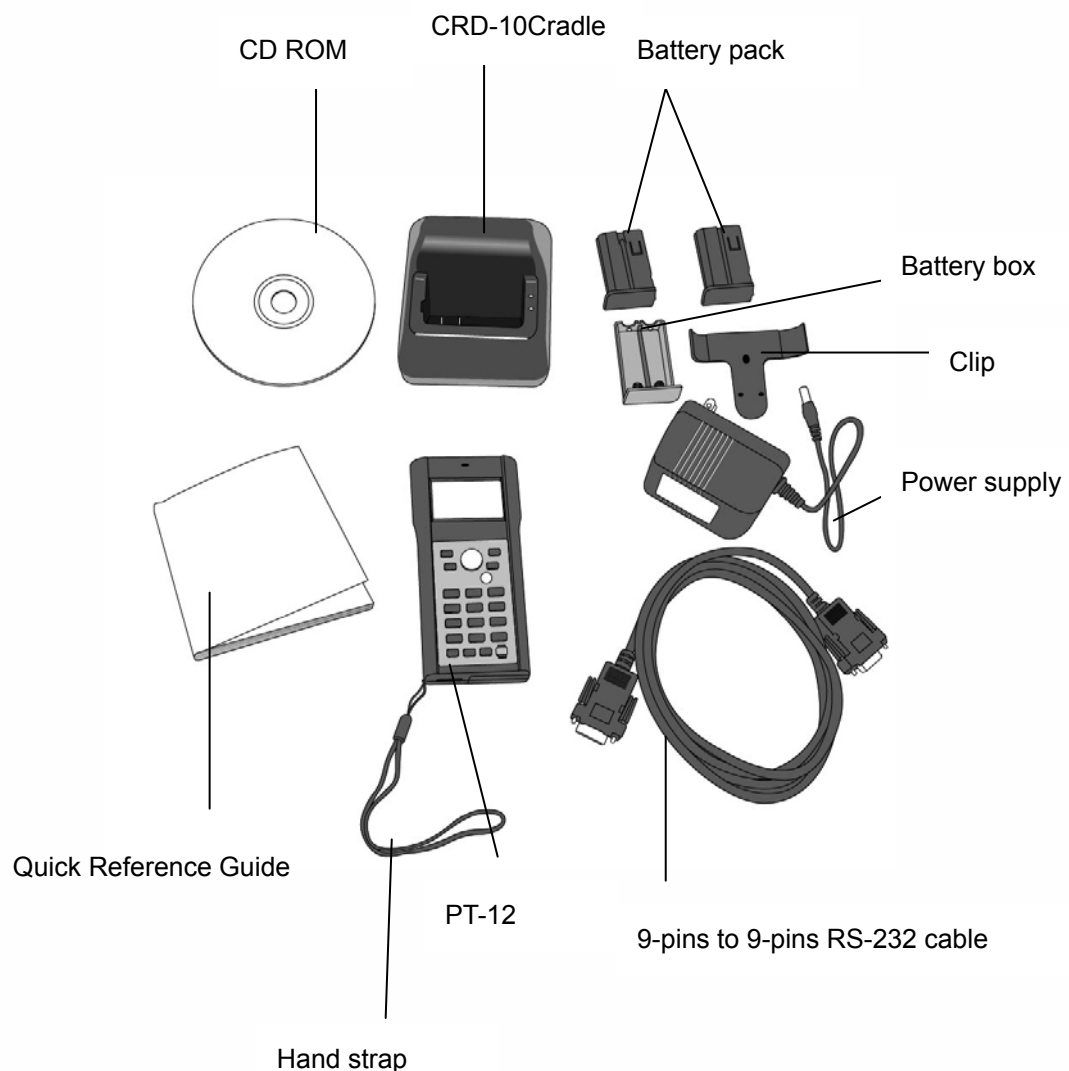
2.1 PT-10 Package Contents

- ✓ PT-10 with dark blue color housing
- ✓ 9-pins to 10-pins RS-232 communication cable
- ✓ CD ROM
- ✓ Quick Reference Guide
- ✓ Battery box
- ✓ 2 Alkaline batteries
- ✓ Clip
- ✓ Hand strap

CD ROM   PT-10   Battery box

Alkaline batteries

Clip

Quick Reference Guide

9-pins to 10-pins RS-232 cable
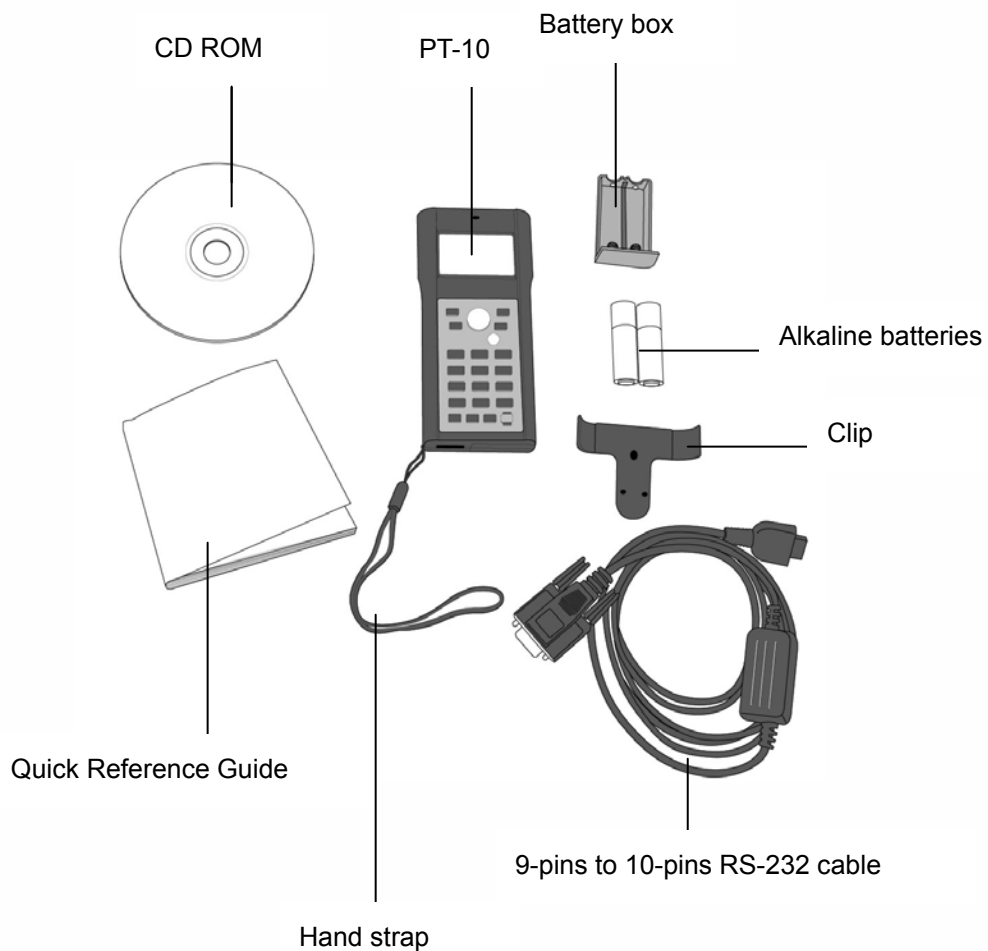
Hand strap

2.2 PT-12 Package Contents

- ✓ PT-12 with black color housing
- ✓ Charging and communication cradle (CRD-10)
- ✓ 9-pins to 9-pins RS-232 communication cable
- ✓ CD ROM
- ✓ Quick Reference Guide
- ✓ 2 x Rechargeable battery pack
- ✓ Battery box
- ✓ Clip
- ✓ Hand strap
- ✓ Power supply

CD ROM
CRD-10Cradle
Battery pack
Battery box
Clip
Power supply
Quick Reference Guide
PT-12
9-pins to 9-pins RS-232 cable
Hand strap

⚠ PT-12 cradle (CRD-10) also supports standard USB cable communication. Please source it locally if required.

2.3 PT-18 Package Contents
- ✓ PT-18 with black color housing
- ✓ Charging and communication cradle (CRD-18)
- ✓ 9-pins to 9-pins RS-232 communication cable
- ✓ CD ROM
- ✓ Quick Reference Guide
- ✓ 2 x Rechargeable battery pack
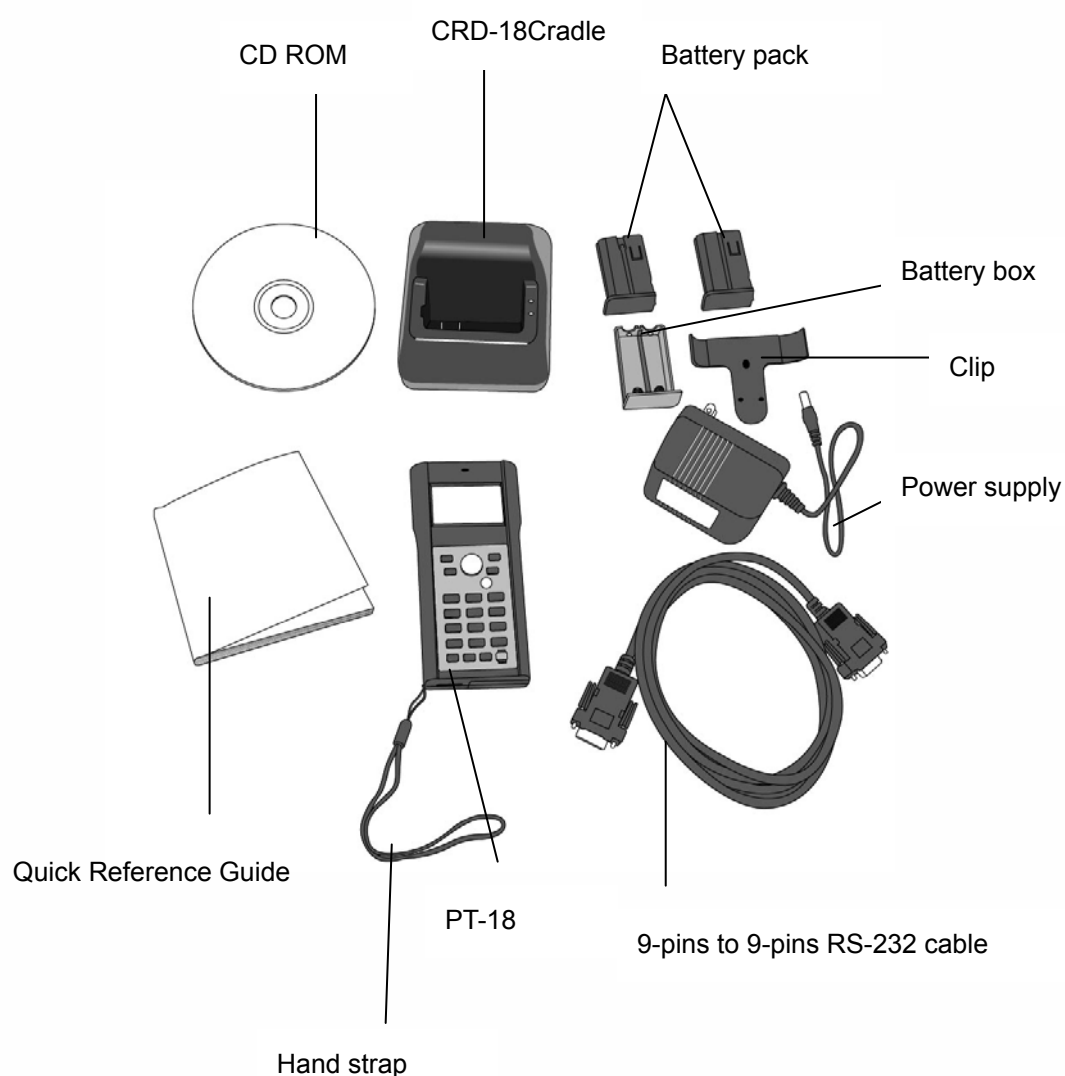- ✓ Battery box
- ✓ Clip
- ✓ Hand strap
- ✓ Power supply

PT-18 cradle (CRD-18) also supports standard USB cable communication. Please source it locally if required.

3. General View

3.1 PT-10/PT-12

LED

LCD

Clip

Battery slot

RS-232 port

Battery unlock

3.2 PT-18

LED

LCD

Clip

Battery slot

IR Communication port

Battery unlock

3.3 CRD-10

PDC slot

Power (communication)

Charging LED

Serial and charging port

Charging slot

Power port

USB port

RS-232 port

3.4 CRD-18

PDC slot

Power (communication)

Charging LED

IR Communication port

Charging slot

Power port

USB port

RS-232 port
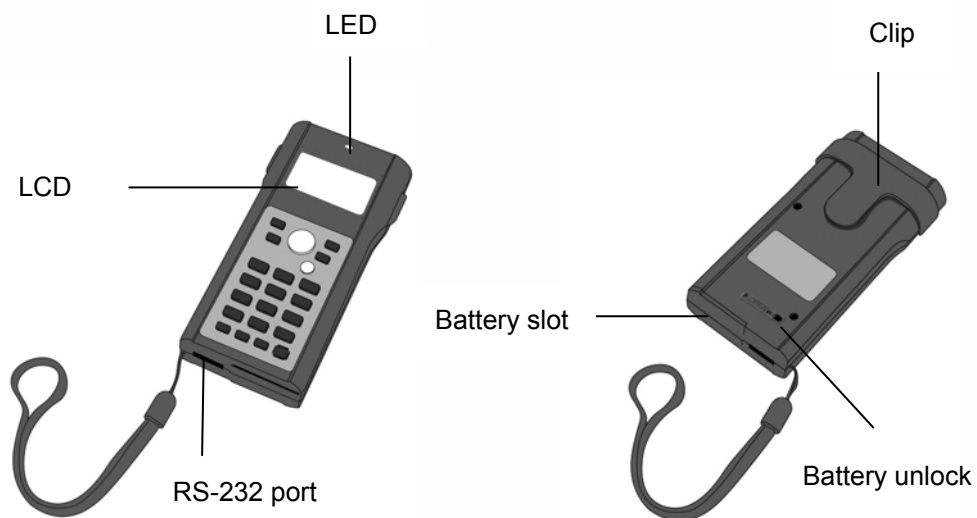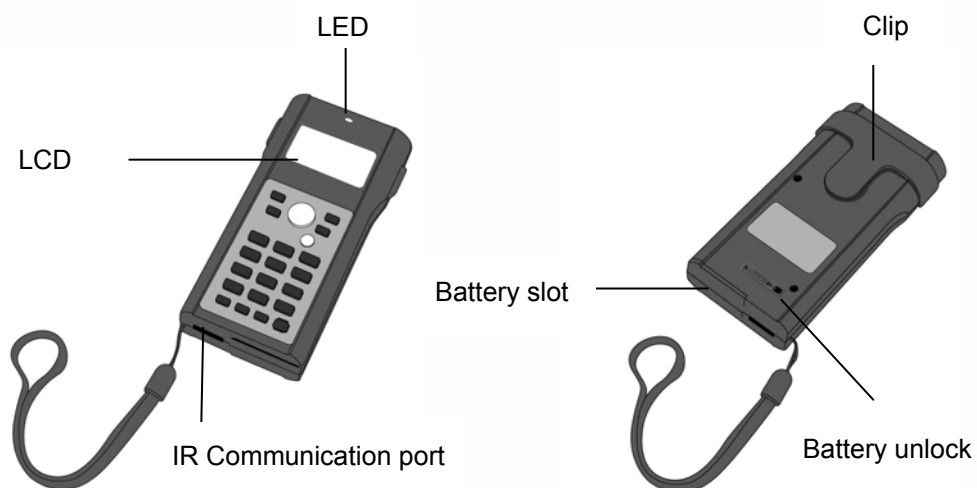
4. Charging Batteries

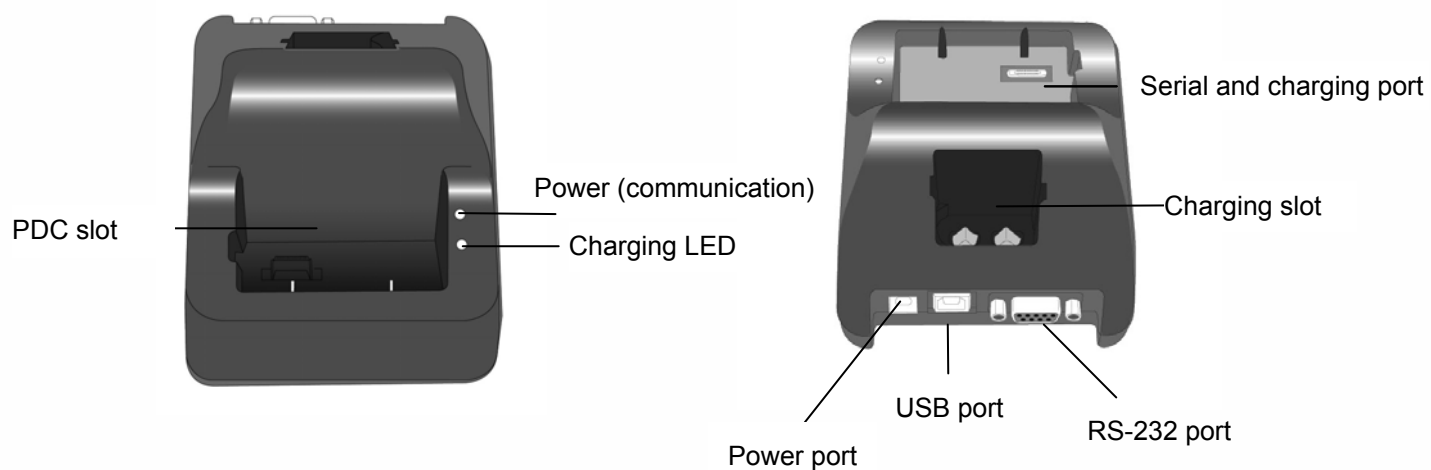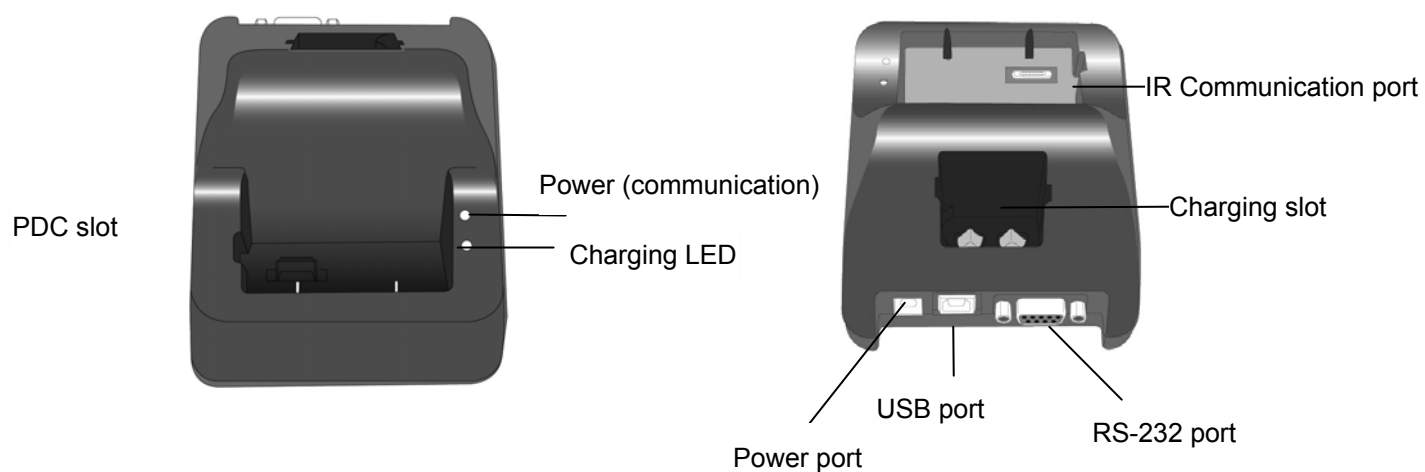The PT Series portable data collectors are equipped with a battery box for standard alkaline cells. *Never insert alkaline cells into a PT-Series PDC for charging through the cradle*. Only a rechargeable battery pack can be charged through the PDC or the spare slot. Before using your PT-12/PT-18 for the first time, charge the NI-MH battery pack for 12 hours through the PDC (PT-12 only) or the CRD-10/CRD-18 cradle.

4.1 Charging through the PDC

⚠️ ***Warning:*** Make sure you have a Ni-MH rechargeable battery pack installed in the PT-12 before charging. Charging alkaline cells can cause personal injury and severe damage to the PT-12 cradle and data collector units. (PT-18 can't charge through the PDC)

4.2 Charging via the Spare Slot

Battery pack
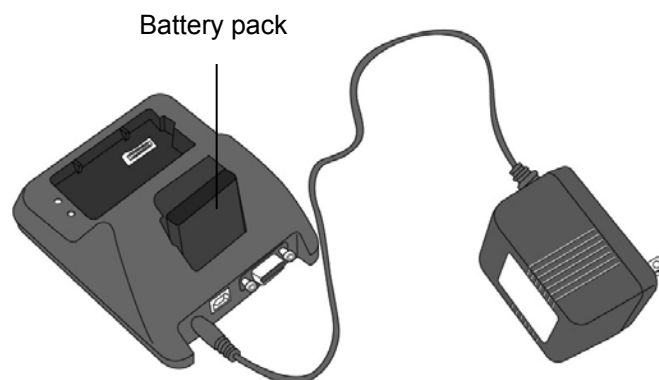
⚠️ *CAUTION:*

♦ The built-in backup battery is for memory back-up. Do not remove the main battery from PT-10/12/18 over 10 minutes. Otherwise data stored inside RAM memory will be lost.

Backup battery status

Icon	Description
	Indicates you need to replace the main battery within 10 minutes
	Shows the backup battery is broken.

5. Keypad Description

Scan Key

Enter Key

Cancel Key

Escape Key

The PT Series keypad consists of 22 rubber keys including one trigger key.
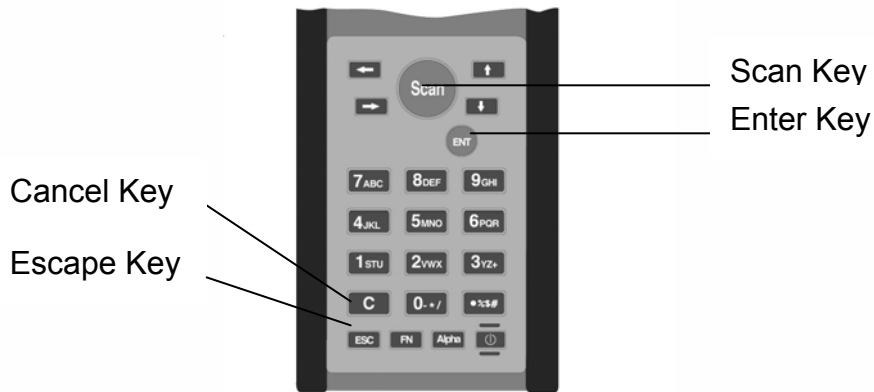
Key		Function
←		Cursor Left
→		Cursor Right
↑		Cursor Up
↓		Cursor down
ENT	ENT	Confirm entering data
Scan	Scan	Scan Key
Alpha	Alpha	Alpha to toggle between alpha and numeric mode
FN	FN	Function key
ESC	ESC	Escape from the current operation
Power	Power	Power On/Off, Press for 0.5 seconds
7ABC	7 ABC	Numeric 7 and Alpha A, B and C
8DEF	8 DEF	Numeric 8 and Alpha D, E and F
9GHI	9 GHI	Numeric 9 and Alpha G, H and I
4JKL	4 JKL	Numeric 4 and Alpha J, K and L
5MNO	5 MNO	Numeric 5 and Alpha M, N and O
6PQR	6 PQR	Numeric 6 and Alpha P, Q and R
1STU	1 STU	Numeric 1 and Alpha S, T and U
2VWX	2 VWX	Numeric 2 and Alpha V, W and X
3YZ+	3 YZ+	Numeric 3 and Alpha Y, Z and Symbol +
C	Cancel	Delete current character
0-*/	0 -*/	Numeric 0 and Symbol -, * and /
·%$#	· %$#	Symbol · , %, $ and #

6. Indication

6.1 Cradle Power/Communication LED

Description	LED Status
Power on	Green
Transmission	Orange flash

6.2 Cradle Charging LED

Status	LED Status
Insert data collector	No LED display (status only display on PT-12 LCD screen)
Insert battery pack	Red Flash (Charging) Green (Complete charging)

7. Starting the PDC

Press the Power button for 0.5 seconds to power on the PDC.

Power button

8. Data Communication

The PT Series portable data collectors let you link to a host computer through an RS-232 cable or through the CRD-10 / CRD-18 cradle for data communication.

8.1 Via RS-232 Cable

The PT-10/12 connects directly to a host computer's serial port via the bundled RS-232 cable (9-pins to 10-pins).

8.2 Via CRD-10 Cradle

The PT-12 also can connect to host computer via CRD-10. The CRD-10 provides two methods for data transmission: through an RS-232 cable (9-Pins to 9-Pins) and through a USB cable.

8.3 Via CRD-18 Cradle

The PT-18 only can connect to a host computer via CRD-18. The CRD-18 also provides an RS-232 interface (9-Pins to 9-Pins) and a USB interface for data transmission.

⚠️ **Warning:** When both RS-232 and USB cables are connected between the cradle and host computer, the USB interface takes priority for data transmission and the RS-232 communication is automatically disabled.

9. Specifications

Feature	PT-10	PT-12	PT-18
CPU/Memory			
OS	Proprietary		
CPU	32-bit RISC Processor with ARM core		
RAM	1M	2M	4M
ROM	1M	1M	2M
Display			
Resolution	128 x 64 dots LCD		
Backlight	LED Backlight		
Scanner			
Scanner system	Long Range CCD scanner 2048 pixels		
Resolution	0.127mm (5 mil)		
Depth of field	330mm (code 39, 20 mils, 90% pcs)		
PCS	≥30%		
Scanning rate	100 scans/sec		
Readable barcode	Code 39, UPC A/E, Cod 128, Int. 2 of 5, Codabar,Code 93, China Post Code, EAN-8/13, full ASCII code 39, ISBN/ISSN		
Keypad			
Number of keys	22 rubber keys		
Interface / communication			
Data Rate	4800 ~ 115200 bps	4800 ~ 115200 bps	115200 bps
PC interface	RS-232	RS-232 / USB	RS-232 / USB
Environment			
Operating	0~40℃		
Storage temperature	-20~70℃		
Shock resistance	1.2M		
EMC	FCC Class-B, CE,UL, BSMI		

Power supply			
Main power	2 x AA Alkaline battery	rechargeable Ni-HM battery pack	rechargeable Ni-HM battery pack
Back up power	3V rechargeable Lithium battery		

Developing tools	
Windows Application Generator	ArgoBuilder
Software Development Kit	SDK for C, ArgoBasic
Communication Tool Kit	Argolink, Windows-base DLL

Packing			
RS-232 Cable	9-Pins to 10-Pins	9-pins to 9-pins	9-pins to 9-pins
Battery	2 x AA Alkaline	Ni-MH battery	Ni-MH battery
Clip holder	Yes	Yes	Yes
Hand strap	Yes	Yes	Yes
Cradle	No	Yes	Yes
Adapter	No	Yes	Yes
Package	Single PT-10 package	Complete package w/CRD-10	Complete package w/CRD-18

⚠️ *BATTERY SAFETY:*

♦ Battery may explode if the battery pack is incorrectly replaced.

♦ Replace only with same or equivalent type recommended by Argox. Dispose of used batteries according to the local regulation.

⚠️ *USER SAFETY:*

♦ This product scans bar codes using LED light. Never look directly into the LED light or shine the LED light into the eyes.