Introduction

- Read this quick start guide carefully before installing and/or using this product.
- Keep this quick start guide for future reference and store it in a safe place.

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Caution and Warning (Please refer to the specification manual and instruction guide for details.)

1. LED Safety

• Do not stare into the LED light from the optical window. It may cause damage to your eyes.

2. Use of the Product

Radio frequency energy from wireless devices may affect some sensitive electronic medical equipment. In order to avoid interference with the operation of this equipment, wireless devices should be switched off when requested in hospitals, clinics, or health care facilities.

3. Handling Instructions

[PX-35]

- Do not attempt to disassemble, modify or update this device.
- Operating the device while operating machinery or a vehicle can be distracting.
- Do not drop this product or put heavy items on this product.
- Avoid static electricity
- Do not use this device near combustible materials.
- · Do not store this device in an extremely cold or hot environment.
- · Scanning performance may decline due to excessive ambient light.
- Do not swing the device around by the strap.
- · Do not insert a sharp object into this device.
- Keep the device out of the reach of small children.
- When cleaning this product, rub gently with either a soft dry cloth or a damp cloth with mild detergent.
- Do not use this product in the following areas:
- -In areas exposed to direct sunlight for long periods of time.

-Near water or other liquids, or in extremely high humidity.

-In dusty environments.

-Near heat sources, such as radiators, heat registers, stoves, or other types of devices that produce heat.

-Near microwaves, medical devices, or RF-emitting devices.

-In areas where dew condenses.

-In any other areas where serious damage is considered to occur.

[Battery Pack]

- Do not attempt to disassemble this battery.
- Do not expose the battery pack to liquids or allow the battery contacts to get wet.
- Do not expose the battery pack to heat sources including other devices that produce heat.
- Do not short the power leads on the battery pack. If the (+) and (-) terminals come in contact with metals (such as necklace or hairpin), a short circuit will occur.
- Do not load the battery pack with its (+) and (-) terminals reversed.
- Check the local regulations for proper battery disposal.

4. Radio Equipment

• Do not peel off the certification label.

5. Bluetooth

- Bluetooth® is a registered trademark owned by Bluetooth SIG, Inc., U.S.A. and is used by OPTICON under license.
- This product supports Bluetooth wireless communication with other Bluetooth devices that have the same profile.
- This product complies with Bluetooth version 2.0; however, its communication performance with equipment other than cradles or devices stated in this manual is not guaranteed.
- Bluetooth devices use the 2.4 GHz frequency band. Scientific, medical, and industrial devices, including radio stations, microwave ovens, wireless security (camera) systems and WLAN use the same frequency band as this product. Interference from other devices may affect the communication speed or communication range of this scanner or vice versa.

Before Getting Started

■ What's in the Box

Confirm that you have the following items before getting started:

No.	ltem	Product No.	Function	
1	Scanner	PX-35	Data collector with Bluetooth	
2	Lithium-ion rechargeable battery	BTR0400	Dedicated for PX-35	
3	Hand strap			
4	Quick Start Guide	PX-35019062-0-00	Provides product information and instruction guide	

* The number of accessories may differ depending on the product specification. Please contact the nearest dealer if accessories are damaged or missing.

Overview

Detailed View



No.	Part	Function
1	Optical Window	CMOS imager which reads 1D & 2D barcodes.
2	IrDA Communication Window	Port to communicate with the designated cradle.
3	LED	Indicates the status of scanning or communicating.
4	LCD	Indicates the operating function and scanned data.
5	Trigger / Scan Key	Starts the barcode scanning operation.
6	DC jack with rubber cap	To connect the dedicated AC adapter for charging.
1	Buzzer Hole	Buzzer sounds through the buzzer hole.
8	Product Label	
9	Charging Terminals	Connects the dedicated cradle for charging.
10	Battery Cover	Protects the battery pack.
11	Battery Cover Lock	Locks the battery cover.
(12)	Strap hook	To attaches the strap.

Key Layout



Кеу	Function	
Trigger/Scan	Scans a barcode.	
UP	Select a menu.	
DOWN	(these keys can be programmed for the user's application.)	
ENT	Determines the input.	
BS	Deletes one letter before the cursor.	
CLR Cancels an input.		
0-9, .	10 numeric keys to input numbers, alphabets or symbols.	
SHIFT	Shifts from "number input mode" to "alphabet input mode" and vice versa.	

* The layout of keys may differ depending on the product specification.

Overview

■ PX-35 Basic Specifications

Pa	rameter	Specifications	Remarks		
Physical	Size	(H)140 X (W) 44 X (D) 26 mm			
Features	Weight	Approx. 130g (incl. Lithium-ion Battery)			
Control Section	MPU	32 bit RISC microcomputer	For Data		
	Internal Memory	ROM: 256KB + 16KB (for data)	1 1 1		
		RAM: 64KB	1 1 1		
External	FLASH ROM	4MB	For OS /AP		
Memory	SRAM	2MB	For Work / Data		
Display	LCD	Semi-transmissive Dot Matrix LCD	1 1 1		
Section	No. of Dots	112 x 64 dots	1 1 1		
	Backlight	White LEDs			
Operation Section	Keys	18 Keys: Numeric keys, Trigger key, BS key, Shift key, CLR	key, ENT key, PW key, Up/Down keys		
Others Section	Status confirmation	Buzzer and Tri-color LED (Red/Green/Blue)			
Scanning	Light Source / Wavelength	Red laser diode / 630nm	- - - -		
Section	Optical Scheme	SXGA CMOS area sensor (1280 x 1024 pixels)	1 1 1		
	Supported Symbologies (2D)	PDF417, Micro PDF417, QR Code, Micro QR Code, Codable Maxi Code(mode 2 to 5), Aztec Code, Composite Code, Intelli			
	Supported Symbologies (1D)	EAN, JAN, UPC-A/UPC-E, Industrial 2 of 5, IATA, Interleaved 2 of 5, NW-7(CODABAR), CODE-39, CODE-93, CODE-128, MSI/Plessey, RSS Code			
Wireless	Specifications	Bluetooth Ver.1.2			
Communication Section	Supported Protocol	SPP, GAP			
Section	Output Level	Class 2 (4dBm or less)			
	Connection	1 PX-35 : 1 BT device (host)			
	Operation Mode	Master mode / Slave mode			
	Comm. Distance	10m	may be shorter depends on the environment		
	Security	Authentication and encryption available			
IrDA	Specifications	Ver.1.2, Baud rate: 2400bps to 115.2kpbs*	* Theoretical value		
Clock Section	Real Time Clock	YYYY/MM/DD hh:mm:ss Clock (leap year supported)	accurate within 90 seconds per month		
Power Supply	Main Battery	Lithium-ion secondary battery (1800mAh)	BTR0400 (sold separately)		
Section	Backup Battery	Manganese silicon lithium rechargeable battery (3.4mAh)	For RAM/RTC backup		
	Operating Time	Approx. 25 hours	When scanning once every 5 seconds at room temperature with a new and fully-charged main battery with always-on Bluetooth.		
	Charging Method	Connects to AC adaptor or the dedicated cradle			
	Charging Temp.	0 to 40 deg.C			
	Charging Time	approx. 7.5 hours by cradle or AC adapter			
	Data Retention Time	72 hours or longer	after fully discharged		
Durability	Operating Temp.	-10 to 40 deg.C	1 1 1		
	Operating Humidity	20 to 85 % (non-condensing)			
	Storage Temp.	-20 to 60 deg C			
	Storage Humidity	20 to 85 % (non-condensing)			
	Ambient Light	Fluorescent: up to 10,000lx	! ! *		
	Immunity	Sunlight: up to 100,000lx	 		
	Dust-and Drip Proof		 		
	Shock Endurance	Dropped 3 times from each of 6 angles onto concrete from a height of	150cm with no defects found. (Total 18 times)		
	Static Electricity	15kV (no destruction)	 		

Battery Pack

How to Insert or Exchange a Battery

STEP 1 Firstly open the battery cover.

Confirm the direction (indicated on the surface of the battery pack) and insert the dedicated lithium ion battery pack in the battery bay.

STEP 2





Put the battery cover back and confirm if the cover is firmly locked.

System Menu Screen

The system menu screen starts when turning the power on. If you do not have user applications, then "figure 1" appears on the screen. Use the Up or Down keys to move, then Trigger or ENT key to choose the menu. To move back to the top screen, push the CLR key.

🗌 figure 1

SYSTEM MENU	SYSTEM MENU	
> Restart	Settings	
Power off	Diagnostics	
Download appl.	List files	
Upload appl.	Show version	

Function List

* The System Menu may be revised or withdrawn at any time without prior notice.

System menu	Function	
Cancel Returns to the application to resume user activities.		
Restart Closes the main menu to restart the application. When no application loaded, the system menu		
Download appl.	Application can be downloaded and started after the succesfull installation.	
Set contrast	Adjust display, brightness and contrast.	
Show version	Displays the version of OS, ROM, Bluetooth and MDI (scan engine).	
List files Displays the contents of the RAMdisk and has option to format RAMdisk.		
Terminal id Sets and confirms the terminal id.		
Diagnostics	Tests (and sets conditions where applicable) in a fixed sequence: 1. Display, 2. Memory, 3. Time & Date, 4. Keypad, 5. Scanner	
Input address	Sets Bluetooth address	
Input PINcode	Sets Bluetooth PINcode	
BLT Local name	Sets Bluetooth local name	
BLT com port	Sets Bluetooth com port	
MDI download	Updates scan engine software	

AC/DC Adapter (Optional)

To recharge the battery, AC/DC adapter (SFP0602000P-PSE) can be directly connected to the PX-35.

Size		(H) 75.0 \times (W) 47.5 \times (D) 28.0 mm max
Input	Power Voltage	AC 90V to 265V
	Supply Current	0.5A max
Output	Power Voltage	5.7V to 6.3V
	Maximum Current	2.0A max
Charging Time		Approx. 7.5 hours

Designated Cradles (Optional)

Communication & Charging Cradle	Communication Method (Cradle to Host)	Communicates with the host via RS-232C or USB interface.
CRD-9723	Size	(H) 67.5 \times (W) 71.5 \times (D) 98.5 mm Max
	Weight	85g Max (excluding AC adapter and cable)
RS-232C USB	Charging Time	Approx. 7.5 hours

Line-up of CRD-9723 series:

- single-bay cradle (1 x charging, 1 x communication)

- multi-bay cradle (5 x charging, 1 x communication)

- multi-bay cradle (5 x charging, 5 x communication)

Charging Cradle CRD-9722:

- single-bay cradle (1 x charging, no communication)

* To connect the cradle to a host using a dedicated USB cable, you must first install a dedicated USB driver on the host. * Please refer to the specification manual or the instruction guide for details of designated cradles.

Contact

Please contact OPTICON or your local dealer.

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More product details, additional support, and configuration options (from the Universal Menu Book) are available at www.opticon.com.