

## Operational Description

---

### ■ Introduction

The **PORTI-SB50** is suitable designed for use with a growing variety of mobile devices. RS232, IrDA(physical layer) and HPIR interfaces make the **PORTI-SB50** the perfect comrade for applications such as point of transaction warehousing, distribution, point of sales, hospitality, gaming and healthcare.

The general features of **PORTI-SB50** printer are as follows:

- ▶ Pocket size (78mm x 131.5mm x 55mm).
- ▶ Light weight(200g) for true mobility.
- ▶ Very silent printing thru direct thermal printing method.
- ▶ High speed (50mm/sec, MAX)
- ▶ High resolution (203dpi, 8dot/mm)
- ▶ RS-232C, IrDA, HPIR interface
- ▶ Easier paper roll loading by CLAMSHELL design.
- ▶ Easier maintenance with self-diagnostic.
- ▶ Microsoft Windows 98/ME/XP/2000 compatible.
- ▶ Support bit-image(logo) download.
- ▶ Flow control : Software (XON/XOFF)
  - ※ Hardware flow control not supported in printer.

### ■ Operating Precaution

Please follow the precautions below to enjoy and maintain the full performance of the printer.

#### ► Using the Printer

- Be careful not to drop or bump the printer on a hard surface.
- Do not install the printer in direct sunlight or such areas.  
Suitable environment for the use of the printer is as follows :
  - ◆ Operating temperature : -10°C to 40°C
  - ◆ Relative humidity : 10% to 90% (No condensation)
- Do not install the printer near devices that generate strong electromagnetic fields such as a copy machine.
- Do not open the platen cover during printing .
- Do not remove or reinstall the communication cable during printing or transmission.
- Do not touch the connectors of the communication cable and to close up the Infrared transmitter /receiver during printing.
- Switch the POWER OFF when not in use.
- Do not use alcohol or other solvent.
- The AC adapter, the battery charger and the battery pack may become warm when in use. This is normal and is not a malfunction.
- When the battery pack is used at low temperature, the length of time the printer can be used may be shortened.

## Operational Description

---

### ► Thermal Paper Handling

- Store the thermal paper in a cool, dry and dark place.
- Do not rub the paper with hard object.
- Do not leave the paper with hard object.
- Do not allow plastic film, erasers, or adhesive tape to touch the paper for long periods.
- Do not stack the thermal paper with diazo copies immediately after copying or wet-type copies.
- Do not use chemical glue.
- Always use the clean thermal paper.

## Operational Description

---

### Specification

Item	Specification	
Print method	Direct thermal line printing	
Characters per line	48cpl (MAX)	
Character size	Eng. : 8×24dots , 9×24dots, 12×24dots, 16×24dots	
Resolution	203dpi, 8dots/mm	
Print width	2-inch (48mm, 384dots)	
Print speed	50mm / sec (MAX)	
Dimension	78 × 131.5 × 55 mm	
Weight	200g (Except Dry cell)	
Interface	RS-232C IrDA (Physical Layer) / HPIR	
Paper roll	Thermal roll paper (57mm wide, 50ø)	
Barcodes	Code128, Code39, I2/5, UPC, EAN, CODABAR	
Receive buffer size	10K bytes	
Battery Type	Dry cell(AA size, 4EA) (It is recommended that a high capacity of rechargeable battery be used.)	
Battery Charger	Output (9VDC/800mA)	
Environment Conditions	Temperature	-10°C ~ 40°C (operating) -10°C ~ 70°C (storage)
	Humidity	30% - 80% (operating) 10% - 90% (storage)
MCBF (Mean Cycle Between failure)	Mechanical	37,000,000 lines
	Head	Approximately 50 Km