# **MOBILE PRINTER** SM4-21W **INSTRUCTION MANUAL**

This is a Class B product based on the standard of the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). If this equipment is used in domestic environments, radio disturbance may arise. When such trouble occurs, the user may be required to take corrective actions.

#### Introductio

Thank you very much for purchasing the SM4-21W thermal printer. Read the 'Safety Instructions' carefully before using this printer for safe handling of it. Save these instructions for future reference.

#### 1. Safety instructions To use this equipment safety, or to protect damage to the equipment, the following symbols are used throughout this manual to highlight safety information. The symbol indicates that failure to observe these instructions or mishandling Warning of this equipment could lead to severe injury or death. Caution Æ The symbol indicates that failure to observe these instructions or mishandling of this equipment could lead to injury or only property damage.

# Samples of symbol

The symbol indicates caution (including DANGER or WARNING).

The symbol indicates the action is prohibited.

The symbol indicates a required operation that must be performed.

### When using the printer

Do not subject the printer to strong shocks by dropping or hitting it. Avoid using the printer at the following location. It may cause failure

- ◆ Locations with much dust, particles, water or oil.
- Locations with slanted surfaces or strong vibration.
- Locations with direct sunlight.
- near heating/warming equipment, or temperature over 50°C.
- ◆ Locations with temperatures of below -10°C, a relative humidity of 80% or more, dew condensation caused by extreme temperature change.
- Location with electromagnetic noise or corrosive gas.
  - Do not touch the dot line on the thermal head and driver IC with metal and sandpaper etc. There is a possibility for damage of those parts.
- Do not touch the dot line on the thermal head with your fingers.
- The contamination may reduce the printing quality.
- Do not use the printer if there is condensation occurs on the thermal head. If the condensation occurs, keep the power off until condensation evaporates completely.
- Do not block the paper exit of the printer.
- Do not use a volatile chemical such as thinner or benzene for maintenance work.
- Do not pull the paper end from the exit forcedly when the printer cover is closed.
- Turn off the printer power when trouble such as a paper jam occurs. Do not use loose paper. It may cause paper jam. Be careful of handling the thermal head to prevent heat elements and driver IC from exposure to static electricity.

### Handling printer unit

- Never disassemble or repair the printer by yourself. • Do not bend the USB cable or place heavy objects on it. Doing so may damage the
- cable and cause fire or electric shock.
- Never use a damaged USB cable. It may cause fire or electric shock. ∕!∖
  - Do not drop any metallic objects nor spill coffee, water or any other liquid.
  - ◆ Do not use the printer in a places where it will be exposed to excess moisture or water spray. It may result in electric shock, short circuit and failure.
  - Do not connect or disconnect the USB cable with wet hands.
  - It may result in electric shock, short circuit and failure.

As the thermal head may be very hot immediately after printing, do not touch it to avoid burning your fingers. Be sure that the thermal head is cool before replacing a paper or cleaning the thermal head. Do not open the paper cover while printing.

In the following cases, turn the printer power OFF and unplug the USB cable.	
<ul> <li>Smoke, unusual noises or odd smells are emitted by the printer.</li> </ul>	
<ul> <li>When metallic objects is dropped or any liquid is spilled inside the printer.</li> </ul>	

- Continuous use may lead to printer failure, fire and electric shock.
- Make sure the fault does not continue and contact dealers for further assistance. Remove the USB cable from the connector or the receptacle by gripping the connector. Never pull the cable itself. Doing so may damage the USB cable



Disposal of battery pack

This symbol indicates a disposal that must be done separately from domestic waste by the

# 3. Handing

1 Button operation list				
Function	Printer Status	Operation details	Button operation	
Turn ON	Turn OFF	Initialization	Press POWER button	
Test Print	Turn OFF	Test Print	Hold POWER button while pressing Page Up button	
	Turn OFF	Mode change	Hold POWER button while pressing Page Dn button	
Function Setting mode	During function setting mode	Select	Press Page Up button	
		Scroll to next item	Press Page Dn button	
HEXDUMP mode	Turn OFF	Mode change	Hold POWER button while pressing Page Dn button	
	During HEXDUMP mode	Print remaining buffer	Press Page Dn button	
Offline reset	Error reset waiting	Return to Printing stand-by status	Press Page Dn button	
Changes USB communication valid / invalid.	Printing stand-by status at USB connection	USB Icon switching	Hold Page Dn button and Page Up button at the same time	
Display IP address	Printing stand-by status	Screen display	Press Page Dn button and Page Up button at the same time	
QR code printing for wireless LAN setting	Printing stand-by status	Print QR code	Press Page Dn button and Page Up button at the same time	
Black mark detection (BLACK MARK MODE = ON)	Printing stand-by status	Paper feed by blackmark	Press Page Up button	
Mark sensor auto control (BLACK MARK MODE = ON)	Printing stand-by status	Paper feed for certain amount	Hold Page Dn button	
Paper Feed	Printing stand-by	Paper feed while	Press Page Up button	

v to charging arging when connecting				

#### 3.6 Maintenance

3.2 Setting Pa	per Roll	[Caution]	
2) Place the pa	per roll as shown in the picture	Do not use volatile chemical agents, such as thinner and benzene.	
3) Close the pa	per cover.	Do not get moisture or spill liquids inside of the	
4) Push the Pa	geDn Button.	printer.	
		4. General specifications. Command systems: ESC/POS (MODE-A) Printing method: Direct line thermal Interface: USB, Bluetooth (BLE) Wireless LAN	
<b>3.3 How to charging</b> Start charging when connecting USB to PC or USB power supply. Battery charge status is shown by an icon at the top of display.		Printing speed:       Max 80mm/s         Print width:       Max 48mm/384dot         Paper width:       58mm         Paper thickness:       Receipt 59 to 85um         External dimensions:       Maxq45mm         Character:       ASCII, Katakana, PC437/850/852/	
Charge Status	LED Pattern ⓒ: Green ₨: Red ●: Turn off	737/WPC1252/1252_2/1254/1250/ 1251/CP1253 Barcode: UPC-A/E, JAN13/8, CODE39/93, ITF,	
Charging completed	CHARGE LED ©	CODABAR, CODE128, GS1 Databar, Omni-directional, Truncated, Limited, Stacked, Stacked Omni-directional	
Charging	CHARGE LED ®	2D barcode: QR, MicroQR, MaxiCode, PDF417, MicroPDF417, DataMatrix	
Not Charged	CHARGE LED •	Battery Charging (Recommended ratings): DC5.0V, 1.0A or more (USB Port)	
An estimated cha It takes 4.5 hours Use USB battery 5V/1A.	rging time. from 10% remaining to full charge. charger that meets output more than	Battery life: 60m or more Dimensions: 82.5mm(W)x 112mm(D)x 57.5mm(H) (With elastomer) Weight: Approx. 260g (with battery pack. without Paper roll and Belt clip)	
<b>3.4</b> Icon display Information on network status of printer, battery status are displayed by icon.		With battery pack, without Paper roll and Belt Clip) Drop impact robustness: 1.5m Water and Dust resistant: IP54	
Icon display	Icon meaning	Temperature: -10°C to +50°C	
	USB connected	*Guaranteed area for printing: +5°C to +35°C	
BLE	Bluetooth connected	*When charging: 0°C to +40°C Humidity: 20%RH to 80%RH (No condensation)	
(ŀ	Wireless LAN communication	However, on the premise that 80% RH is up to 35 °C.	
(i)×	Connecting to wireless router	Storage environment: Temperature -20°C to +60°C Humidity 10%BH to 90%BH	
â	Button locked	(No condensation) Regulation: VCCI/CE/FCC CLASS B	
<b>1</b> 00×	Indicates remaining battery is full	This Bluetooth wireless device stores a specific	
□ <sub>10%</sub>	Indicates remaining battery is extremely low	wireless device which was approved by Construction Type Certification	
<b>≠</b> <sub>50%</sub>	Battery charging	Modulation method: AFH system Interference distance: $\leq 10m$	
<b>3.5 Printer Status</b> Printer status is displayed on the LED or OLED Display. Please Refer to a technical manual for the contents of a printer status.		Frequency change: Not Available ©Updated printer drivers, specifications, and Technical Guide are listed in the Website. ©Windows is the registered Trademark of Microsoft Corporation.	
<b>3.6 Maintenan</b> Periodically cle quality and avo It is recommend 6 months or 1 r	<b>ce</b> an the printer to maintain the printing id failures. ded to maintain the printer every nillion lines of printing.	<ul> <li>ESC/POS is registered Trademark of Seiko Epson Corporation.</li> <li>This instruction manual may be subject to change without notice due to product improvement.</li> </ul>	
<ol> <li>Print therma When clean thermal hea (Ethanol, m wipe off stai</li> <li>Platen roller When clean cloth and wi</li> <li>Sensor and Clean the si the paper et</li> </ol>	al head ing the thermal dot line on the print d, use a cotton swab with alcohol ethanol, or Isopropyl alcohol) and ns and dust. ing the platen roller, use a dry soft pe off the stain with rotating the roller. peripherals tain, dust, and paper powder on mpty sensor.	★ SANEI ELECTRIC INC. Head office 2-51-13 Ikebukuro, Toshima-Ku, Tokyo, 171-0014, Japan Phone: +81-3-3986-0646 (Representative) + 81-3-3986-1188 (Overseas sales) Fax: +81-3-3988-5876 URL: <u>http://www.sanei-elec.co.jp</u>	