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 action

Introduction

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.		
Warning The symbol indicates that failure to observe these instructions or mish of this equipment could lead to severe injury or death.		The symbol indicates that failure to observe these instructions or mishandling of this equipment could lead to severe injury or death.	
	▲ Caution	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

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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. \odot
 - Do not touch the dot line on the thermal head and driver IC with metal and sandpaper e 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.		
 Smoke, unusual noises or odd smells are emitted by the printer. 		
 When metallic objects is dropped or any liquid is spilled inside the printer. 		

- 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.

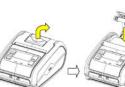
by dio	law regu In order	lation of collecting and recycle of used battery pack. to prevent environmental or health damage from the waste of electric device, lispose them collect according to a recycle law in your region with your own ibility.	3) Close the p 4) Push the Pa	
ons.	 Printer unit (Built Paper Rolls 	1 roll		
ed g	Belt Clip Belt clip screw Instruction Manua USB-C to A Cable 2.2 Appearance		3.3 How to ch Start charging power supply. Battery charge of display.	when conne
g of	OLED Disp	Nay Open Lever	Charge Status	LED F ©: Green ●: Turn of
	Page UP Button Page Dn Button		Charging completed	CHARGE I
	HE		Charging	CHARGE I
	CHARGE LED	USB Port DWER Button Battery Cover Battery Cover Battery Cover Battery Cover Battery Cover Battery Cover	An estimated ch It takes 4.5 hour Use USB battery 5V/1A.	s from 10% re / charger that
	POWER Button	: Turn power ON or OFF.	3.4 Icon displa Information o status are dis	n network s
	Page Up Button	: Please refer to the button operation list.	Example disp	
	Page Dn Button	: Please refer to the button operation list.	Icon display	
	CHARGE LED STATUS LED	: Indicate charging state of battery. : Indicate status of printer.		USB cor
etc.	OLED Display USB Port	: This is a display that displays the status of the printer with icons and text. : USB interface port.	BLE	Bluetoot
	Open Lever Battery Cover	: Open paper cover. : Cover for battery.	(:	Wireless
ely.	Belt Clip	: A clip for attaching to a belt.	(t×	Connect
	3. Handing			Button lo

Disposal of battery pack This symbol indicates a disposal that must be done separately from domestic waste by the

Button operation list

.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
HEADOMP mode	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 status	Paper feed while pressing	Press Page Up button

3.2 Setting Paper Roll 1) Pull the open lever up and op 2) Place the paper roll as show ton.



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ispiay.	
Charge Status	LED Patte
harging ompleted	CHARGE LED
harging	CHARGE LED
ot harged	CHARGE LED

remair at mee

status icon. refers lco onnect oth co

(ŀ	Wireless LA
()×	Connecting
	Button lock
1 00%	Indicates re is full
	Indicates re is extremely
]	D <i>ii</i>

Battery charg ≠ 50%

3.5 Printer Status

Printer status is displayed on the Display. Please Refer to a technical ma of a printer status.

3.6 Maintenance

Periodically clean the printer to quality and avoid failures. It is recommended to maintain 6 months or 1 million lines of p

- (1) Print thermal head When cleaning the thermal thermal head, use a cotton (Ethanol) and wipe off stain (2) Platen roller
- When cleaning the platen ro cloth and wipe off the stain
- (3) Sensor and peripherals Clean the stain, dust, and p
- the paper empty sensor.

open the paper cover. wn in the picture	 [Caution] Do not use volatile chemical agents, such as thinner and benzene. Do not get moisture or spill liquids inside of the printer. 		
A States	4. General specifications.		
	Command systems: ESC/POS (MODE-A) Printing method: Direct line thermal Interface: USB, Bluetooth (BLE) Wireless LAN Printing speed: Max 80mm/s Print width: Max 48mm/384dot		
ng USB to PC or USB	Paper width: 58mm Paper thickness: Receipt 59 to 85um External dimensions: Maxq45mm		
n by an icon at the top	Character: ASCII, Katakana, PC437/850/852/ 857/858/863/865/866/860/862/864/ 737/WPC1252/1252_2/1254/1250/		
contents	1251/CP1253 Barcode: UPC-A/E, JAN13/8, CODE39/93, ITF, CODABAR, CODE128, GS1 Databar,		
® ₽ _{50%}	Omni-directional, Truncated, Limited, Stacked, Stacked Omni-directional 2D barcode: QR, MicroQR, MaxiCode, PDF417, MicroPDF417, DataMatrix		
•	Power supply: Battery Pack: DC 3.7V, 2100mAh Battery Charging (Recommended ratings): DC5.0V, 1.0A or more (USB Port)		
ning to full charge. ets 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)		
s of printer, battery	Drop impact robustness: 1.5m Water and Dust resistant: IP54		
rs to below. on meaning	Operating environment: Temperature: -10°C to +50°C		
cted	*Guaranteed area for printing:		
onnected	+5°C to +35°C *When charging: 0°C to +40°C Humidity: 20%RH to 80%RH (No condensation)		
N communication	However, on the premise that 80% RH is up to 35 °C.		
to wireless router	Storage environment: Temperature -20°C to +60°C Humidity 10%RH to 90%RH		
ed	(No condensation)		
maining battery	Regulation: VCCI/CE/FCC CLASS B		
maining battery low	This Bluetooth wireless device stores a specific wireless device which was approved by Construction Type Certification		
ging	Frequency: 2.4GHz Modulation method: AFH system		
	Interference distance: ≦10m Frequency change: Not Available		
the LED or OLED			
anual for the contents	©Updated printer drivers, specifications, and Technical Guide are listed in the Website. ©Windows is the registered Trademark of		
o maintain the printing	Microsoft Corporation. ©ESC/POS is registered Trademark of Seiko Epson Corporation.		
n the printer every	OThis instruction manual may be subject to change without notice due to product		
printing.	improvement.		
l dot line on the print n swab with alcohol ns and dust. roller, use a dry soft	SANEI ELECTRIC INC. Head office 2-51-13 Ikebukuro, Toshima-Ku, Tokyo, 171-0014, Japan		
with rotating the roller.	Phone: +81-3-3986-0646 (Representative) + 81-3-3986-1188 (Overseas sales)		
paper powder on	Fax: +81-3-3988-5876 URL: http://www.sanei-elec.co.jp		
	(Rev1 4E)		