#### **MOBILE PRINTER** Disposal of battery pack This symbol indicates a disposal that must be done separately from domestic waste by the SM4-31W E law regulation of collecting and recycle of used battery pack. **INSTRUCTION MANUAL** In order to prevent environmental or health damage from the waste of electric device, Li-ion please dispose them collect according to a recycle law in your region with your own This is a Class B product based on the standard of the Voluntary Control Council for Interference by responsibility. 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. 2. Preparation Introduction 2.1 Unpacking Thank you very much for purchasing the SM4-31W thermal printer. When unpacking the printer, make sure the following components are provided, beside Printer Unit

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.

 Image: Marning Caution
 The symbol indicates that failure to observe these instructions or mishandling of this equipment could lead to severe injury or death.

 Image: 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

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

	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.
	<ul> <li>Locations with much dust, particles, water or oil.</li> </ul>
	<ul> <li>Locations with slanted surfaces or strong vibration.</li> </ul>
	<ul> <li>Locations with direct sunlight.</li> </ul>
	near heating/warming equipment, or temperature over 50°C.
	<ul> <li>Locations with temperatures of below -10°C, a relative humidity of 80% or more,</li> </ul>
	dew condensation caused by extreme temperature change.
$\bigcirc$	<ul> <li>Location with electromagnetic noise or corrosive gas.</li> </ul>
	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.

U	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, AC adapter or power cord by yourself.
  - Do not use any AC adapter and power cord other than those specified.
- Do not bend the AC adapter cord or place heavy objects on it. Doing so may damage the cable and cause fire or electric shock.
- Never use a damaged AC adapter cord. 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 AC adapter cord.
   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.
- Gonunuous use may read to primer failure, fire and electric shock.
   Make sure the fault does not continue and contact dealers for further assistance.
- Remove the AC adapter cord or USB cable from the connector or the receptacle by gripping the connector. Never pull the cable itself. Doing so may damage the cable.

When unpacking the printer, make sure the following components are provided, beside Printer Unit.		
<ul> <li>Printer unit (Built-in battery pack)</li> </ul>	1 unit	
<ul> <li>AC Adapter</li> </ul>	1 piece	
Paper Rolls	1 roll	
Belt Clip	1 piece	3.3 How
Belt clip screw	2 pieces	Start cha
<ul> <li>Instruction Manual</li> </ul>	1 volume	Battery c
USB-C to A Cable	1 piece	of display
2.2 Appearance		Char
OLED Display Open Lever		Stat
		Chargir comple
Page UP Button		comple
Page Dn Buttton		Chargir
		Not
The solution of the second sec		Charge
		An estima
		It takes 3 I
		<b>3.4</b> lcon 0
	DC Jack	Information
CHARGE LED		elt Clip status a
STATUS LED	Battery Cover	Example
POWER Button : Turn power ON	or OFF	lcon d

: Turn power ON or OFF. 'OWER Butto Page Up Button : Please refer to the button operation list. Page Dn Button Please refer to the button operation list. CHARGE LED : Indicate charging state of battery. STATUS LED : Indicate status of printer. OLED Display : This is a display that displays the status of the printer with icons and text. USB Port : USB interface port. Open Lever : Open paper cover. **Battery Cover** : Cover for battery.

### : A clip for attaching to a belt.

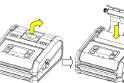
Belt Clip

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		
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

Place the paper roll as shown
 Close the paper cover.
 Push the PageDn Button.



**3.3 How to charging** Start charging when connecting Battery charge status is shown of display screen.

Charge Status	LED Patte
Charging completed	CHARGE LED
Charging	CHARGE LED
Not Charged	CHARGE LED

An estimated charging time. It takes 3 hours from 10% remaining

#### 4 Icon display

Information on network status of status are displayed by icon. Example display of icon refers

Icon display	Icon
	USB connecte
BLE	Bluetooth conr
(ŀ:	Wireless LAN
(I)×	Connecting to
â	Button locked
100%	Indicates rema is full
□ <sub>10%</sub>	Indicates remains extremely lo
€ <sub>50%</sub>	Battery chargir

#### 3.5 Printer Status

Printer status is displayed on the screen. Please Refer to a technical man of a printer status.

3.6 Maintenance

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

# (1) Print thermal head

 When cleaning the thermal de thermal head, use a cotton sy (Ethanol, methanol, or Isopro wipe off stains and dust.
 (2) Platen roller

When cleaning the platen rol cloth and wipe off the stain w

(3) Sensor and peripherals Clean the stain, dust, and pa the paper empty sensor.

pen the paper cover.	[Caution] • Do not use volatile chemical agents, such as		
n in the picture	thinner and benzene. • Do not get moisture or spill liquids inside of the		
	printer.		
	4. General specifications.		
	Command systems: ESC/POS (MODE-A)		
N_ (BIT)	Printing method: Direct line thermal		
	Interface: USB, Bluetooth (BLE) Wireless LAN		
	Printing speed: Max 80mm/s		
	Print width: Max 72mm/576dot		
g AC adapter to printer.	Paper width: 80mm Paper thickness: Receipt 59 to 85um		
by an icon at the top	External dimensions: Maxq50mm		
	Character: ASCII, Katakana, PC437/850/852/		
lcon display	857/858/863/865/866/860/862/864/ 737/WPC1252/1252 2/1254/1250/		
contents	1251/CP1253 <sup>—</sup>		
	Barcode: UPC-A/E, JAN13/8, CODE39/93, ITF, CODABAR, CODE128, GS1 Databar,		
G <b>1</b> 00%	Omni-directional, Truncated, Limited,		
	Stacked, Stacked Omni-directional		
® ₹50%	2D barcode: QR, MicroQR, MaxiCode, PDF417, MicroPDF417, DataMatrix		
	Power supply: Battery Pack: DC 7.4V, 2000mAh		
■75%	AC adapter for charging:		
	DC9.0V, 1.3A Battery life: 100m or more		
g to full charge.	Dimensions: 106mm(W)x121.5mm(D)x60.5mm(H)		
5 5	(With elastomer)		
of printer, battery	Weight: Approx. 370 g (with battery pack, without Paper roll and Belt clip)		
or primer, battery			
s to below.	Drop impact robustness: 1.5m Water and Dust resistant: IP54		
n meaning	Operating environment:		
ed	Temperature: -10°C to +50°C		
eu	*Guaranteed area for printing: +5°C to +35°C		
nnected	Humidity: 20%RH to 80%RH		
	(No condensation) However, on the premise that 80%		
l communication	RH is up to 35 °C.		
o wireless router	Storage environment: Temperature -20°C to +60°C		
	Humidity 10%RH to 90%RH		
1	(No condensation)		
aining battery	Regulation: VCCI/CE/FCC CLASS B		
	This Bluetooth wireless device stores a specific		
aining battery	wireless device which was approved by Construction Type Certification		
ow	Frequency: 2.4GHz		
ing	Modulation method: AFH system		
	Interference distance: ≦10m Frequency change: Not Available		
LED or graphic	riequency change. Not wanable		
ne LED or graphic	©Updated printer drivers, specifications, and		
nual for the contents	Technical Guide are listed in the Website. ©Windows is the registered Trademark of		
	Microsoft Corporation.		
	©ESC/POS is registered Trademark of Seiko		
maintain the printing	Epson Corporation. ©This instruction manual may be subject to		
the printer every	change without notice due to product		
rinting.	improvement.		
dot line on the print			
swab with alcohol			
ropyl alcohol) and	2-51-13 lkebukuro,		
	Toshima-Ku, Tokyo, 171-0014, Japan		
oller, use a dry soft	Phone: +81-3-3986-0646 (Representative)		
with rotating the roller.	+ 81-3-3986-1188 (Overseas sales) Fax: +81-3-3988-5876		
aper powder on	URL: <u>http://www.sanei-elec.co.jp</u>		
	(Rev1.0E)		