THERMAL PRINTER BL2-58 **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.

Thank you very much for purchasing the BL2-58 thermal printer. Read the 'Safety Instructions' and '1. Operating Precautions' carefully before using this printer for safe handling of it Save these instructions for future reference

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 mishandling of
	ٽ ٽ	this equipment could lead to severer 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

Examples of Symbols



The \triangle symbol indicates caution (including DANGER or WARNING). The example in the left column indicates that caution or warning conditions exist.



disassembly is prohibited. The symbol indicates a required operation that must be performed or an obligatory

Instruction The example in the left column indicates unplugging is required.

The \circ symbol indicates the action is prohibited. The example in the left column indicates

Warning



Do not use any battery pack, AC adapter and AC power cord.

Failure to follow this instruction may result in overheating or inflammation, which may lead to fire or accidents



Do not bend the power cord forcibly, or place heavy objectives on the power cord. Doing so may damage the power cord and cause fire or electric shock. If the power cord

Is damaged, discontinue using it.



Never disassemble the printer, the AC adapter, the AC power cord, the battery pack or the battery charger. Failure to follow this instruction may result in overheating or inflammation which may lead to fire or accidents.

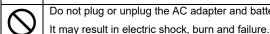
/!∖ Caution

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not drop any metallic objects nor spill coffee,soft drinksand, water and any other liquid.



As the thermal head may be very hot immediately after printing, do not touch it. Be sure that the thermal head is cool before removing the paper jam or cleaning the thermal head.



Do not plug or unplug the AC adapter and batteries with wet hand.



Do not use the printer in place where it will be exposed to excess moisture and where is watered. It may result in electric shock, burn and failure.



Remove the interface cable or AC adapter from the connector or the receptacle by holding the connector or the AC plug. Never pull the cable itself. Doing so may damage the cable or



For following case, turn the printer power OFF, unplug the AC power cord from outlet, and remove the bettry. Continueous use may occur the printer failure, fire and electric shock.

- ◆ In case the problem is not cleared and fixed
- ◆ Emitting smoke, making unusual noise and odd smell from the printer
- ◆ The metallic object dropped or spilled liquid into the printer

Operating Precautions

Observe the following for safe and proper operation

- ■Notes on use
- ◆Do not subject the printer to strong shocks by droping or hitting it.
- ◆Turn off the power switch and keep the AC plug removed from the outlet when the unit is not
- ◆Do not pull the paper from the exit. It may cause the damage or failure of the printer mechanism.
- Notes on treatment of thermal paper
- ◆Store the paper in a dry, cool and dark place.
- ◆Do not rub the paper with hard substance. ◆Keep the paper away from organic solvent.
- ◆Do not let the paper touched with vinyl chloride film, eraser or adhesive tapes for hours.
- ◆Do not put the paper on diazo print or wet copy that has just been copied.
- ■Notes on installation
- ♦Install the printer on a level or upright and stable surface
- ◆Avoid such places with:
- Slanted surface, strong vibration, direct sunlight, full of dust, excessively high or low temperature, electromagnetic noise, corrosive gas

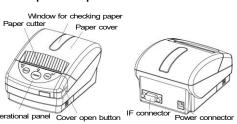
2.1 Unpacking

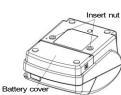
When unpacking the printer, make sure the

ioliowing components are provided.	
 Printer unit 	1 unit
 Thermal paper (paper length 15m) 	1 roll
 Instruction manual 	1 volum
 AC adapter 	1 piece
 AC power cord 	1 piece

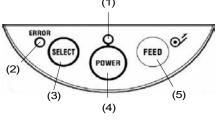
★For ordering the thermal paper, contact our sales office or local distributors.

2.2 Components / parts



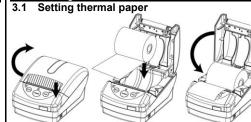


Operational panel



- (1) POWER LED: Indicates the status of the power.
- (2) ERROR LED : Indicates printer errors...
- (3) SELECT button: Selects the printer mode.
- (4) POWER button: Turns the power ON/OFF.
- (5) FEED button: Feeds the thermal paper while pressing this button.

Handling



- 1) Press the cover open button to open the paper
- 2)Set the paper roll as shown in the picture (Make sure the printing surface is correct, or it does not print properly)
- 3 Close the paper with the tip end emerging from the tear bar.



Handle the tear bar carefully not to injure the finger or hand.

3.2 Battery pack

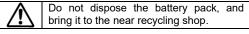
Installing battery pack



- 1) Place the printer upside down. Press both sides of the battery cover and lift it up.
- 2) Place the battery pack in the case and slide it in the direction shown by the arrow until locked 3Close the battery cover.
- Remove battery pack Perform installation steps in reverse.
- Battery charge (Models with built in charger) 1)Turn the power ON with connecting AC adapter 2) Press SELECT button on the operational panel
- blinking indicates charging. 3When the battery charging completes, the printer status becomes standby and POWER LED on.

for 3 sec, then POWER LED and ERROR LED

- (4) It takes an average of 3 hours (UR-250), and for Ave.2.5 hours(UR-121) to charge. (Max. 4 hours)
- ▼With a new full charged battery, the printer prints 210m in case of UR-250, and prints 140m in case of UR-121. (Continuous printing, Printing density 100%, Printing ratio 30%)
- ▼Keep the battery pack removed from the battery case when the printer is not used for long periods.
- ▼After full charging of the battery pack, the printer cuts off charging automatically and the printer does not recharge again. Be sure the battery voltage is reduced after charging and discharging continuously because of memory effect. ▼The battery pack is worn out after charging and
- discharging. The battery capacity is reduced to 80% of a new battery after 300 cycles of charging. ▼The battery works shorter time at low temperature
- **▼**When the working time becomes noticeably
- shorter than normal, replace the battery pack. ▼The printer can not print while charging.



3.3 How to set to upright wall

Please ready two screws (M3x3mm), and set the printer to upright wall not sideling in the vicinity and from side to side, keeping power connector side down, using the insert nut in back side.

3.4 LED indication

When an error occurs, the POWER/ERROR LED lights or blinks depending on the type of errors.

O. rum on to o. rsec . rum or r loro. rsec						
Status	POWER (Green)	ERROR (Red)	Recovery			
Standby printing	ON	0FF	***			
Initializing	ON	0•0•	Complete initialization			
Recharging	000	●○●○	Complete charging			
Temperature error	ON	0	Cooling down			
Paper empty	ON	ON	Put paper			
Paper cover open	ON	ON	Close the cover			
Low battery	000	0FF	Recharge battery			
Excess recharge	0000	ON	Contact Sanei			
Upper limit voltage error	0FF	0FF	Contact Sanei			
Lower limit voltage error	0000	0FF	Contact Sanei			

3.5 Self test print

Turning the power switch ON while pushing the FEED button starts self test print. The printer prints character sets and barcode.

3.6 HEX dump print

Data entered from the computer is printed in hexadecimal numbers. While pressing SELECT button, turn ON the power switch. When the mode selecting is printed, press the SELECT button, then starts the HEX dump mode.

3.7 Function set (Soft switch)

Sets the printer function by Soft switch.

- 1)While pressing the SELECT button, turn ON the power switch.
- ②After printing the mode selecting, push the FEED button to enter the function setting mode.
- 3When a message is printed, press the FEED button for YES and the SELECT for NO.
- 4The printer prints 'SETTING MODE END' when ending Setting items

Classified setting items are as follows.

- · COMMON SETTING : Common information
- MODE-B SETTING : BL-58 compatible INTERFACE SETTING: Interfaces
- For further information, please refer to the Bl 2-58 Technical Guide

3.8 Maintenance

Clean the thermal head, the platen roller and Sensors periodically.

The details show in the Technical Guide.



Before cleaning the printer, turn OFF the printer power and disconnect the AC adapter and remove the battery pack from the case.



Never get liquid such as water into the printer.

4. Specifications

4.1 General specifications

FSC/POS BL-58 Command systems: Print method: Direct line thermal Interface

BL2-58S Serial (RS-232C)

Connector: D-sub 9pin Male BL2-58P Parallel (Centronics) Connector: D-sub25pin F-male

BL2-58U USB ver.2.0

Connector: B type round 4-PIN

Printing speed Max.80mm/sec (Dedicated AC adapter, Printing ratio 12.5% or less)

Printing width/paper width 48mm/58mm Barcode UPC-A/E,JAN13/8,CODE39,ITF,

CODABAR, CODE 128 Option 2D barcode

QR, MaxiCode, PDF417, MicroPDF417 DataMatrix

Power source

Battery pack: Li-ion battery (option)

Part No.: UR-250, UR-121 Dedicated AC adapter Part No.: BLS-120W

Output: DC9.0V 3.0A AC power cord

Part No.: ACS-120A (Japan) ACS-100G (Europe) ACS-100U (USA)

Input: AC100V~240V, 50/60Hz

Dimensions (W×D×H, No protruding parts) 93mm×125mm×70mm

approx.265g

(without thermal paper and battery pack)

Operating environment

Temperature When battery is used -10°C to +50°C When AC adapter is used 0°C to +40°C While recharging battery 0°C to +35°C

Printing quality guarantee +5°C to +40°C Humidity 20%RH to 85%RH

(No condensation) Storage environment

Temperature -20° C to $+60^{\circ}$ C Humidity 10%RH to 90%RH (No condensation)

Thermal paper Part No. : P-58-30 Paper width: 58mm

VCCI CLASS B, FCC CLASS B,

Length: approx.30m Outer diameter. : 50mm **EMC** regulations

CE marking Input buffer 8k bytes

©The printer models are listed in Technical Guide. (BL2-58 $\square\square\square\square$ QC)

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