	THERMAL PRINTER BL2-58	1. Operating Precautions Observe the following for safe and proper operation.	3. Handling 3.1 Setting thermal paper	3.4 LED indic:	ation		
INSTRUCTION MANUAL This is a Class B product based on the standard of the Voluntary Control Council for Interference by		 Notes on use Do not subject the printer to strong shocks by droping or hitting it. 		When an error occurs, the POWER/ERROR LED lights or blinks depending on the type of errors.			
Informati disturbar	on Technology Equipment (VCCI). If this equipment is used in domestic environments, radio ce may arise. When such trouble occurs, the user may be required to take corrective actions.	•Turn off the power switch and keep the AC plug removed from the outlet when the unit is not		Status	POWER (Green)	ERROR (Red)	Recovery
Thank	you very much for purchasing the BL2-58 thermal printer. Read the 'Safety	Do not pull the paper from the exit. It may cause		Standby printing	ON	0FF	***
Instructi Save the	ons'and' 1.Operating Precautions ' carefully before using this printer for safe handling of it. se instructions for future reference.	the damage or failure of the printer mechanism. ■Notes on treatment of thermal paper		Initializing	ON	0000	Complete initialization
Safety in	structions	 Store the paper in a dry, cool and dark place. Do not rub the paper with hard substance. 	①Press the cover open button to open the paper	Recharging			charging
througho	ut this manual to highlight safety information.	 Keep the paper away from organic solvent. Do not let the paper touched with vinyl chloride 	cover. ②Set the paper roll as shown in the picture (Make	Temperature error	ON	0000	Cooling down
<u> </u>	this equipment could lead to severer injury or death.	film, eraser or adhesive tapes for hours.	sure the printing surface is correct, or it does not print properly)	Paper empty	ON	ON	Put paper
₫ c	Aution The symbol indicates that failure to observe these instructions or mishandling of this equipment could lead to injury or only property damage	◆Do not put the paper on diazo print of wet copy that has just been copied. ■Notes on installation	③Close the paper with the tip end emerging from the tear bar.	Paper cover open		OFE	Close the cover Recharge
Example	s of Symbols	◆Install the printer on a level or upright and stable	A Handle the tear bar carefully not to injure	Low ballery		UT	battery
\triangle	The \triangle symbol indicates caution (including DANGER or WARNING). The example in the	surface.	the finger or hand.	Excess recharge	0	ON	Contact Sanei
	Tert column indicates that caution of warning conditions exist.	Slanted surface, strong vibration, direct sunlight,	2.2. Bottory pack	Upper limit	0FF	0FF	Contact Sanei
	The \bigotimes symbol indicates the action is prohibited. The example in the left column indicates disassembly is prohibited	full of dust, excessively high or low temperature, electromagnetic noise, corrosive gas	Installing battery pack	Lower limit	0	0FF	Contact Sanei
	The Symbol indicates a required operation that must be performed or an obligatory Instruction. The example in the left column indicates unplugging is required.	2. Preparation 2.1 Unpacking When unpacking the printer, make sure the following components are provided. • Printer unit 1 unit • Thermal paper (paper length 15m) 1 roll		3.5 Self test p Turning the po FEED button - character sets	rint ower switc starts self and barc	h ON while test print. T ode.	pushing the he printer prints
	Karning	Instruction manual 1 volume	①Place the printer upside down Press both sides	3.6 HEX dump	o print		
\Diamond	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.	 AC adapter AC power cord AC power c	 (i) Table the particle up and lift it up. (ii) Place the battery pack in the case and slide it in the direction shown by the arrow until locked (iii) Close the battery cover 	Data entered hexadecimal button, turn O selecting is pr	d from th numbers. N the pov inted, pres	e compute While pre ver switch. V ss the SELE	r is printed in essing SELECT When the mode CT button, then
	Do not bend the power cord forcibly, or place heavy objectives on the power cord.	2.2 Components / parts		starts the HEX	(dump mo	ode.	
\otimes	Doing so may damage the power cord and cause fire or electric shock. If the power cord Is damaged, discontinue using it.	Window for checking paper Paper cutter Paper cover	 Remove battery pack Perform installation steps in reverse. 	3.7 Function s Sets the printe	set (Sof	t switch) by Soft swi	tch.
8	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.		 Battery charge (Models with built in charger) ①Turn the power ON with connecting AC adapter. ②Press SELECT button on the operational panel for 3 sec, then POWER LED and ERROR LED blinking indicates charging. 	©While press power switc ②After printing button to en ③When a m button for Y	the mod the mod ter the fur essage is ES and th	e selecting, action setting printed, p	push the FEED g mode. ress the <u>FEED</u> for NO.
	▲ Caution	Operational panel Cover open button	(3)When the battery charging completes, the printer status becomes standby and POWER LED on	④The printer	r prints '	SETTING	MODE END'
\bigcirc	Do not drop any metallic objects nor spill coffee,soft drinksand, water and any other liquid.	Insert nut	(a) It takes an average of 3 hours (UR-250), and for Ave.2.5 hours (UR-121) to charge. (Max. 4 hours)	when ending Setting items Classified s	g. etting item	is are as fol	lows.
\oslash	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.	Battery cover	 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. 	• MODE-B • INTERFA For further BL2-58 Tech	SETTING SETTING CE SETT informati nical Guid	BL-58 BL-58 ING : Interfa on, please e.	compatible aces refer to the
\bigcirc	Do not plug or unplug the AC adapter and batteries with wet hand. It may result in electric shock, burn and failure.	Operational panel (1)	case when the printer is not used for long periods. ▼After full charging of the battery pack, the printer	3.8 Maintenan Clean the ther	rmal head,	the platen	roller and
	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.		not recharge again. Be sure the battery voltage is reduced after charging and discharging	The details sh	low in the	Technical G	uide.
0	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 adapter.	(2) (3) (4)	 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 	printer adapti from t Never printe	r power ar er and ren he case. r get liquid r.	nd disconne nove the ba	ct the AC ttery pack
	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	 (1) POWER LED: Indicates the status of the power. (2) ERROR LED : Indicates printer errors (3) SELECT button : Selects the printer mode. (1) SELECT button : Selects the printer mode. 	 Area. When the working time becomes noticeably shorter than normal, replace the battery pack. The printer can not print while charging. 	4. Specifications	;		
	 Emitting smoke, making unusual noise and odd smell from the printer 	 (4) POWER button : Turns the power ON/OFF. (5) FEED button : Feeds the thermal paper while pressing this button. 	Do not dispose the battery pack, and bring it to the near recycling shop.	4.1 General sp Command sys Print method	pecification stems: I	ons ESC/POS、 Direct line th	BL-58 hermal
	The metallic object dropped or spilled liquid into the printer	F	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	Interface BL2-58S S BL2-58P f	Serial (RS Connector Parallel (C Connector	-232C) : D-sub 9p entronics) : D-sub25p	in Male bin F-male

down, using the insert nut in back side.

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,CODE128
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
Input : AC100V~240V、50/60Hz
Output : DC9.0V 3.0A
AC power cord
Part No. : ACS-120A (Japan)
ACS-100G (Europe)
ACS-100U (USA)
Dimensions (W×D×H、No protruding parts)
93mm×125mm×70mm
Weight approx.265g
(without thermal paper and
battery pack)
Operating environment
Temperature When battery is used
Temperature When battery is used -10° C to $+50^{\circ}$ C
Temperature When battery is used -10° C to $+50^{\circ}$ C When AC adapter is used
Temperature When battery is used -10°C to +50°C When AC adapter is used 0°C to +40°C
Temperature When battery is used -10°C to +50°C When AC adapter is used 0°C to +40°C While recharging battery
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
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
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
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
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)
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 When battery is used -10° C to $+50^{\circ}$ C When AC adapter is used 0° C to $+40^{\circ}$ C While recharging battery 0° C to $+35^{\circ}$ C Printing quality guarantee $+5^{\circ}$ C to $+40^{\circ}$ C Humidity 20%RH to 85%RH (No condensation) Storage environment Temperature -20° C to $+60^{\circ}$ C
Temperature When battery is used -10° C to $+50^{\circ}$ C When AC adapter is used 0° C to $+40^{\circ}$ C While recharging battery 0° C to $+35^{\circ}$ C Printing quality guarantee $+5^{\circ}$ C to $+40^{\circ}$ C Humidity 20%RH to 85%RH (No condensation) Storage environment Temperature -20° C to $+60^{\circ}$ C Humidity 10%RH to 90%RH
Temperature When battery is used -10° C to $+50^{\circ}$ C When AC adapter is used 0° C to $+40^{\circ}$ C While recharging battery 0° C to $+35^{\circ}$ C Printing quality guarantee $+5^{\circ}$ C to $+40^{\circ}$ 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)
Temperature When battery is used -10° C to $+50^{\circ}$ C When AC adapter is used 0° C to $+40^{\circ}$ C While recharging battery 0° C to $+35^{\circ}$ C Printing quality guarantee $+5^{\circ}$ C to $+40^{\circ}$ 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
Temperature When battery is used -10° C to $+50^{\circ}$ C When AC adapter is used 0° C to $+40^{\circ}$ C While recharging battery 0° C to $+35^{\circ}$ C Printing quality guarantee $+5^{\circ}$ C to $+40^{\circ}$ 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
Temperature When battery is used -10° C to $+50^{\circ}$ C When AC adapter is used 0° C to $+40^{\circ}$ C While recharging battery 0° C to $+35^{\circ}$ C Printing quality guarantee $+5^{\circ}$ C to $+40^{\circ}$ 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 Length : approx.30m
Temperature When battery is used -10° C to $+50^{\circ}$ C When AC adapter is used 0° C to $+40^{\circ}$ C While recharging battery 0° C to $+35^{\circ}$ C Printing quality guarantee $+5^{\circ}$ C to $+40^{\circ}$ 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 Length : approx.30m Outer diameter. : 50mm
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°C Humidity 10%RH to 90%RH (No condensation) Thermal paper Part No. : P-58-30 Paper width : 58mm Length : approx.30m Outer diameter. : 50mm
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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°C Humidity 10%RH to 90%RH (No condensation) Thermal paper Part No. : P-58-30 Paper width : 58mm Length : approx.30m Outer diameter. : 50mm EMC regulations VCCI CLASS B、FCC CLASS B、 CE marking Input buffer 8k bytes

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

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