



MODEL : LK-P21B

All specifications are subject to change without notice

Disposal of Old Electrical&Electronic Equipment(Applicable in the European Union and other European countries with separate collection systems)

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste.

Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronics equipment. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

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1. Unpacking



2. Product overview



3. Usage and Installation

3-1 Control panel usage



Button	Name	function
٩	Power button	This button is used to turn the printer on and off. When the printer is off, press this button for approximately 2 seconds and it will turn on the power. When you press this button in a state that the printer is on, the printer will turn off.
FEED	Paper Feed Button	Paper output can be done manually by pressing this button. Additionally, self-testing and Hexadecimal Dumping can be processed 1. Refer to "3-10" for self test information. 2. Refer to the service manual regarding Hexadecimal Dumping.
Batt	Battery Status Lamp	 If the Batt, LED are Lit, the battery is fully charged. If you can hear beeping sound and LED light is turned off, it means that the battery is at the lowest level. If the battery is not charged at all, the printer turns off automatically.
	Error Lamp	If the red light is turned on, it means there is no paper roll or the paper cover is open.



As the battery is not charged at the time of your purchase, charge the battery prior to using the printer (Battery charger or Cradle can be used to charge)



After putting up the belt clip, remove the battery holding it up as shown above.

3-4 Battery charging

- 1. Be sure that the printer is turned off
- 2. After open the DC JACK cover, insert DC JACK into the printer.
- 3. Plug the power code to electrical outlet.

- 1. Unless the exclusive charger is used provided by the manufacturer, the printer can be damaged, and the manufacturer is not liable for the consequential damage.
- 2. Before removing the battery, make sure that power is turned off.
- 3. Printer does not work in the status of being connected with charger only.
- 4. The battery should be installed to operate printer.
- 5. While charging, do not turn on the power.
- 6. Do not operate the print while charging the battery.
- 7. Do not connect the charger while the printer is operated.

3-5 Battery charger usage

- 1. Insert the battery into the battery holder as shown above
- 2. Connect the DC JACK to the power electrical outlet.
- 3. Once the charging is completed, remove the battery from the holder.

3-5-1 The status of lamp in charging

lamp

Status	charging	charging complete
Charging Lamp	Red	Green

NOTE

In the case the battery is not fixed properly in the holder, the red lamp will be blinking, Then, extract and reinsert the battery.





3-10 Self Test Turn off the power pressing the power button for approximately 2 minutes. **NOTE** 1. To print ASCII pattern additionally. press the Feed button once more 2. After printing ASCII pattern, the self test will be finished automatically. 3. If the Feed button is not pressed



While you are pressing the FEED button, press the power button

- to print ASCII pattern, self test will be finished automatically after 30 seconds.

<The sample of self test printout>

SEL	F-TES	Т
*********	********	******
Printer is as	follows	
Firmware Versie	n	ler 0.09
*********	******	******
ENGFONT		Install
Codepage 437		Install
**********	********	*****
Serial Interfac	6	
Baud rate	: 115200	
Data bits	: 8 bits	
Parity	: none	
Stop bits	: 1 bit a	nore
Handshak ing	: DTR/DSR	
Receive error	: ignore	
******	*******	*******
Bluetoath		
BO_ADDR :00):13:7B:52	:06:ED
Passkey :00	000	
************	******	*******
MSR		
Read Mode	: Auto	RACK 1/2
************	*******	*******
Enulation	:	ESC/POS
PrintDensity	:	Normal
Characters	: 32 CH	ar/Line
************	*********	******
Low Power Mode	: Not	Install
Off Time	:	0 min
**********	********	*****
Diases prace F	ED button	
ribuse press ri	LO DULLON	

abcdefghijklænopgrstuvwxyz{|}" bodefghi jklanopgrstuvvxyz{l}" Dü cdefghijklanopqrstuvwxyz[]}" Çüé defghijklmnopqrstuvwxyz{|}" Çüéä efghijklmopgrstuvwxyz{]} Cüéšá fghijklanopgrstuvwxyz{]}" Cuéáaá ghijklmnopgrstuvwxyz{]}" Çüddäda hijklanopgrstuvwcyz{]} Qüéšááše ijkInnopgrstuvwxyz{]]" Cúéááááčé jklmnopgrstuvwxyz{]}" Çüéääääçéë k Innoporstuvwxyz{|}" Çüéááááçééé Innoporstuvwxyz{|}" Çüéááááçéééi mnopgrstuvwxyz{]} Cuesassceeeii nopgrstuvwxyz{|}~ Çüéáäááçéééili opgrstuvwxyz()) CueaadaçéeéiiiA pgrstuwwxyz{])" Cuéáaááçéeé i i i AA grstuvwxyz())" CúéáaáápéeéiiiAAÉ rstuvwxyz())" CúéáaáápéeéiiiAAÉ# stuvwxyz{|}^{*} ÇüéâäáäçébéiiiAĂÉaÆ tuvwxyz{]}" CueasaaceeeiiiAAEe&o UVWXYZ{]}" CUSSASSOBELI I I AAEzefoo VNXY2[]] CüesääsceeeiiiAAEæEddo wxyz()) Cueásáácéeé i i i AAÉæfőöcü xyz {] } Cúeáááácééé i i i AAÉzéőőőűű yz{]}" Cüésaascééé) i jAkEatocouuv z{]} CuessadeceeeiiiAAEæfoqoouvo (1) Cueássácééé i i i AÁÉzéooduuvOU 1) Quéasáácései i i AAEsfócóúúvous Cueadaaceee i i AAEæ&ooouuvolugE CUEBBBBCEEE I I AAEstooouvouce¥ Queaaaaçõee i i AAEe&õõõõõõvõvõüsE¥t *** Completed ***

When the printer is installed initially or when you face a problem, you can run the self test and check the information about

-Control Circuit, Mechanism, Print Quality, ROM Version

After checking with self-test and no issues are found, you can examine other devices and software. This function is working independent of devices and software.

Motor protection from being overheated

The motor should be stopped and cooled about more than 30 seconds after continuous printing 1.5 meter

The printout is produced.

3-11 MSR usage

Insert and swipe the card in the direction of the arrow as shown in the picture.

4. Peripherals connection

This printer can communicate with Peripherals device via Bluetooth and cables.

4-1 Bluetooth Connection



- 1. Printer can be connected to the PDA and PC which can do wireless communication.
- 2. By using Bluetooth function supported in PC, printer can be connected.



1. Connect USB or Serial cable into the cable connector on the printer.

NOTE

Use the cable offered by the manufacturer (USB, Serial)

2. Connect the interface cable into the USB or Serial port of the device (PDA, PC, etc.)

5. Pritner Specification

5-1 Specification

Printing Method		Direct Thermal
Printing Speed		80mm/sec
Resolution		203 DPI X 203 DPI
Character		Font A (12X24), Font B (9X17)
Character per line		Font A : 32 columns , Font B : 42 columns
Character set		ALPHA NUMERIC Charactor, Extension grapic
Barcode		EAN-8, EAN-13, Code39, ITF, UPC-A, Codabar, Code93, Code128
Emulation		ESC/POS
Driver		Window CE 4.2 & 5.0, Window Mobile 5.0
Sensor		Paper End Sensor, Cover open Sensor
Paper	paper type	Thermal Paper
	width	58mm
	thickness	65 µl
	External Diameter	Max. Ø 40mm
	Internal Diameter	12.5mm +/-0.5mm
Reliability	TPH	50km
	Battery	Continuous printing operation: 1hr and 30min Standby: 24hrs Printing length: 162m
Communications		Serial(RS-232C), USB, Bluetooth Class2
MSR (Optional)	Card Standard	ISO7811/2, JIS
	Track	1Track, 2Track, 3Track, JIS-II
	Magnet Head Life	300,000 Passes(minimum)

Battery Charger	input	AC100~240V, 50/60 Hz
	output	8.4V , 800~1200mA
Battery Charger	Battery type	Li-on
	output	7.4V, 1130mAh
	Charging time	2 Time
Size	W X D X H(mm)	96 X 136 X 58
	W X D X H"	3.7 X 5.3 X 2.2
Weight		0.4kg
Temperature	operation	5 ~ 40°C
	storage	-10 ~ 50°C
Humidity	operation	35 ~ 95%

5. Setting up the software

Please refer to the programming manual included in CD.

Certification

FCC Information

This device complies with part 15 of the FCC Results. Operation is subject to the following two conditions:

- (1) This Device may not cause harmful interface, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

<u>Note</u>

This equipment has been tested and found to comply with the limits for CLASS B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instuctions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try correct the interference by one or more of the following measures:

- 1.1. Reorient or relocate the receiving antenna.
- 1.2. Increase the separation between the equipment and receiver.
- 1.3. Connect the equipment into an outlet on a circuit different from that to which receiver is connected.
- 1.4. Consult the dealer or experienced radio/TV technician for help.

WARNING

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

CAUTION

Antenna shall be mounted in such a manner to minimize the potential for human contact during normal operation. The antenna should not be contacted during operation to avoid the possibility of exceeding the FCC radio frequency exposure limit.



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