

Handy Printer PD-24

User's Manual



Latest Information Printer Drivers, Servicing and Consumables

For the latest information on your PD-24 printer:

- where to obtain service inside or outside of the warranty period
- printer drivers for the latest operating systems
- additional consumables and accessories

please contact Citizen's office in your region:

United States, Canada, South America:

CITIZEN SYSTEMS AMERICA CORPORATION

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FCC Declaration of Conformity

We, the Responsible Party: Citizen Systems America Corporation

363 Van Ness Way, Suite 404 Torrance, CA 90501. USA

Tel: (310) 781-1460

declares that the product:

Trade Name: CITIZEN
Product Name: Printer
Model Number: PD-24

confirms to the following specifications:

Regulation: FCC Part 15B, Class B
Test Method: ANSI C63.4-2003

and therefore is in compliance with the protection requirement of FCC Rules relating to electromagnetic compatibility.

issued on 1, April, 2005

Authorized Signature:

Toru Morimoto President

DECLARATION OF CONFORMITY

We, Citizen Systems Europe GmbH

Park House

643-651 Staines Road

Feltham, Middlesex

TW14 8PA. United Kingdom



declare under our sole responsibility that the product:

Product Type: Thermal Printer

Model Name: PD-24

manufactured by: Crown Young Industries Ltd

Block 10, Tong Fu Yu Industrial Zone

Long Tian Residents Committee

Keng Zi Subdistrict Office, Long Gang District

Shen zhen 518122, P.R. China

in 2005, to which this declaration relates is in conformity with the following standards:

EMC: EN 55022 / 1998, EN61000-3-2 / 2000, EN61000-3-3 /

1995, EN 50024 / 1998

Following the provisions of EMC (89/336/EEC) based on the following documents:

SAFETY: EN60950-1

- 1. EMI Test Report issued by ORIX Rentec Corporation
- 2. Immunity Test Report issued by ORIX Rentec Corporation

(European Representative)

London, 1, April, 2005

Norimitsu Katoh

Managing Director

Citizen Systems Europe GmbH

Compliance Statements

FCC Compliance Statement for American Users

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, 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 interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

CAUTION: Use shielded cables to connect this device to computers.

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

EMI Compliance Statement for Canadian Users

- This Class B digital apparatus complies with Canadian ICES-003.
- Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

CE Declaration for European Users

CE marking shows conformity to the following criteria and provisions.

- Low Voltage Directive (73/23/EEC)/EN60950-1
- EMC Directive (89/336/EEC)/EN55022, EN55024, EN61000-3-2 & EN61000-3-3

Safety Instructions

The Symbols

Instructions that must be followed to prevent any risk to the user and other people and any damage to property are indicated as shown below. The degree of risk and damage that will occur if a user operates the machine improperly by failing to obey any of the indicated instructions are categorized as follows. Read the User's Manual after you fully understand this categorization.

<u> </u>	Indicates a situation where there is a high probability of the death or serious injury of a person.
№ Warning	Indicates that if a person uses the machine improperly by failing to obey this instruction, there is a possibility of death or serious injury.
Precaution	Indicates that if a person uses the machine improperly by failing to obey this instruction, there is a possibility of serious injury or of property damage.

Meaning of symbols



This symbol indicates that something must be handled carefully.



This symbol indicates something that must not be done.



This symbol indicates something that must be done.

■ Precautions to be followed when handling the printer

<u> </u> Warning



- Do not use the printer if it becomes hot, produces smoke or a strange smell, etc. as it could start a fire. Immediately switch off the printer and remove both the AC adaptor and/or battery pack, if installed.
- If any foreign (metal scraps, water, or other fluid) gets inside the printer, immediately switch off the printer and remove both the AC adaptor and/or battery pack, if installed. Then contact your service representative.
 Failure to do so could result in fire.

Precaution



- Do not put on an unstable surface as it may fall or topple over causing some injury.
- Do not use it in any of the following locations, otherwise it will malfunction:
 - In a car that is exposed to the sun, in any place exposed to direct sunlight, near a heater etc.
 - In a place where the temperature and humidity are very high or low or where they fluctuate widely.
 - In an extremely dusty place
 - In a place exposed to water or other fluid
- Do not drop or hit the printer as doing so will damage it or cause it to malfunction.
- Keep all foreign material out of the printer. This will cause it to malfunction.
- Do not use a volatile fluid (thinner, benzine, etc.) or wet cloth to clean the printer. If you do, it will be degraded or discolored. Clean it with a dry soft cloth.
- During printing or when it is in standby status, do not move, shake or hit the
 printer. There is a danger that the power will be cut off, losing printing data.

■ Precautions to be followed when operating the printer

<u> </u> Warning



Be extremely careful not to touch the print head or serrated tear bar when
replacing the paper. After printing, the print head can become hot and there is
a danger of it burning your hand. Also, care should be taken when handling the
cutter as it might cut your hand.

Precaution



- If you use any paper other than the designated kind, the print quality will fall
 and the service life of the print head (printing unit) will be reduced.
- Do not perform printing and do not push the paper feed button while there is no paper in the printer. The heat of the print head will deform the platen (roller) and friction with the platen will damage the print head.



- Do not tap or rub the print head with a sharp or hard object.
- If moisture has condensed on the print head, be sure to wait until it is completely dry before performing printing. If you print while the print head is moist, there is a danger of damage to the print head.

■ Precautions when using the battery pack

Danger



- Do not use any battery pack other than the specified type.
 Using a type other than the specified type may cause an explosion.
- Use only the specialized charger.
- Do not take it apart or modify it.
- Do not short circuit the terminals.
- Do not use, charge, or leave the battery pack near fire, out in the hot sun, or in any other hot place.
- Do not place it in a fire.
- Do not hit or drop the battery pack.

⚠ Precaution



 After charging, do not repeatedly charge it again. (We recommend that after using it, you remove it from the printer and store it, then charge it the day before you use it again.)



- When you do not plan to use the printer for a long time, remove the battery pack from the printer and store it in fully charged condition.
- When carrying a spare battery pack removed from the printer, always carry it in the protective cover included with the battery pack.
- If the battery pack works for only a short time after it is charged, or if an error
 occurs even though it is charged, it may have reached the end of its service life.
 Buy a new battery pack.
 - Dispose of an unnecessary battery pack according to rules in the country where you are using it.
- If the terminals of the battery pack are dirty, clean them with a soft cloth.
- The battery pack performs a chemical reaction, so use it considering this characteristic.
 - Charge the battery pack where the temperature is in a range from 5°C to 40°C.
 - Store it in a dry place where the temperature does not rise. Storing it for a long time in a hot place will shorten its service life and cause serious selfdischarging.
 - Because not using it for a long time may cause self-discharging, charge it just before using it.

■ Precautions when using the charger (optional)

Precaution



- Do not modify the charger nor remove its cabinet.
- Do not damage or modify the power cord. This may cause a short circuit or accident.
- Do not drop the charger or apply a strong shock to it.



- Use a household AC100-240V power source.
- Be very careful to keep water, metal etc. out of the inside of the battery pack.
- Do not use it in the following places.
 - Near a store or place where it is exposed to direct sunlight
 - Very humid places, and places where it would be exposed to oily smoke or steam
 - Place where there is violent vibration or an unstable place
- If it is used near a radio or similar appliance, it may cause noise. If this happens
 use it further from the radio etc.
- If the charger will not be used for a long time, remove its power plug from the power outlet and store it.

■ Precautions when using the specialized RS-232C cable and USB cable

♠ Warning



 When connecting to the printer using a cable, ensure you do cross (short) the pins or contacts of any of the connectors with the metal parts of the cable assembly.

Precaution



- Whilst the printer is protected from external damage as much as possible, there is a danger that excessive static electricity damaging the internal circuits of the printer. Take care to discharge items touching the printer before connection or use.
- Do not leave the cable wrapped around the product for a long time. If you do, there is danger of breakage and discoloration of the cable.

■ Precautions when using thermal paper (printing paper)

Precaution



When using thermal printing paper, take the following precautions. Thermal printing paper becomes discolored or degenerates, resulting in faint printing.

- Do not put printed paper in bright light for a long period.
- Avoid high temperature, humidity, fluids, and sunlight.
- Do not use glue, adhesive, or adhesive tape containing a volatile organic solvent to retain printed thermal paper by applying it to ground paper.
- When you want to retain the paper for a long time, we recommend that you
 either use deterioration-resistant type thermal paper or make a copy on a
 copier and retain the copy.
- Do not keep the paper in contact with a PVC film etc. for a long time.
- Avoid ammonia. Keep it away from paper copied on a copier that uses ammonia.
- Do not let perspiration on your hands or oil touch the printed surface of thermal printing paper (surface to be printed or surface that has been printed).
- When the thermal printing paper will be stored, store it in a dark place where the average temperature is 25°C or less and the humidity is 65% or less.

Precautions when installing the printing paper

A Precaution



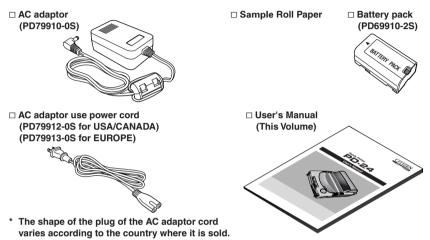
- Begin printing only after you have made sure that the printing paper is straight
 where it is ejected from the printing (thermal) head. If it is not straight, the
 paper will jam.
- To prevent the paper from being bent as it is fed into the printer, make sure that the front end of the paper is as shown below.



Confirming the Accessories

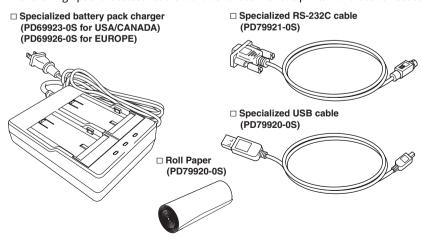
Included Accessories

After opening the package, confirm that the printer and the following standard accessories have been included.



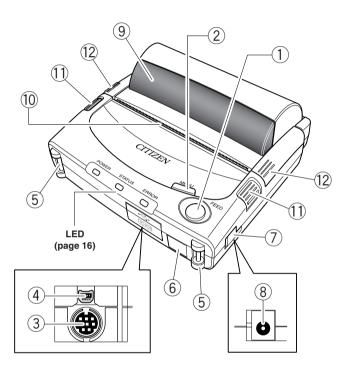
Optional Accessories

The following optional accessories are available for use with this printer. Purchase as needed.



External Appearance and Part Descriptions

Front view of the printer



1) FEED Button (paper feed)

If it is pressed once, it feeds one line. If it is held down, it feeds approximately 300 mm (1 feet) then stops. But even if it is continuously held down, it feeds a specified length of paper then stops. It will not feed if there is no paper.

(2) MENU Button

It is used to set the menu.

If you turn on the power while pressing this MENU button, it enters menu setting mode. It will not function if it is pressed while the power is on.

3 Serial Interface

To receive data serially, connect the specialized RS-232C cable (option).

(4) USB Interface

To receive data from the USB interface, connect the specialized USB cable (option).

⑤ Strap Holder

6 Optical Receiver

Receives data transmitted by infrared transmission. (see page 29).

O AC Adaptor Terminal Cover

This cover is used to protect the AC Adaptor terminal. Be sure to always close the cover when not using the AC adaptor.

8 AC Adaptor Terminal

Use this terminal to connect the accessory AC adaptor.

9 Paper Check Window

Use this to check that the roll paper is properly set and check the remaining quality of the paper roll.

(10) Serrated Tear Bar

Tear the paper by pulling it toward you. Be careful not to cut yourself when tearing the paper.

1 Cover Open Button

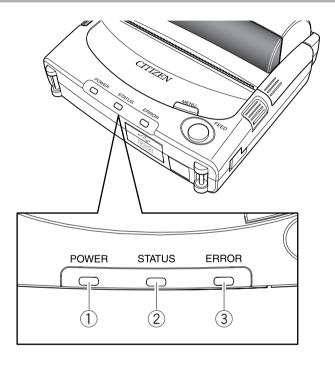
Push buttons at two locations to open the roll paper cover to load roll paper in the printer.

(12) Cover Close Unit

To close the roll paper cover, push the two locations.

External Appearance and Part Descriptions

LED panel



- 1 POWER LED
- 2 STATUS LED
- **③ ERROR LED**

Functions of the LED

Each LED is illuminated continuously or flashing according to the status of the printer. The POWER LED and the STATUS LED emit either green, orange, or yellow, and the ERROR LED emits red in combinations that indicate the status of the printer. (See the following page.)

LED Indicator Table

Printer Status	POWER LED (green, orange, yellow)	STATUS LED (green, orange, yellow)	ERROR LED (red)
Printing standby status (ONLINE)	Steady green	Not on	Not on
During Bluetooth link	Steady green	(green)	Not on
During data reception (all interfaces)	Steady green	●○●○●○●○ (orange)	Not on
No paper (it has run out)	Steady green	Not on	0•0•0•0•
Roll paper cover open	Steady green	Not on	
Head overheated	Steady green	(yellow)	Not on *1
Motor overheated	Steady green	●○●○●○●○ (orange)	Not on *1
Low battery	(green)	Not on	Not on *1
Battery charging	●○●○●○●○ (yellow)	Not on	Not on *1
Battery fully charged	Steady green or not on	Not on	Not on *1
Battery charging error	Steady yellow	Not on	On
Battery charging warning	(yellow)	Not on	On
During menu registration	Not on	(orange)	Not on
Black mark error	Steady green	Not on	000
System error	Steady green	Not on	On

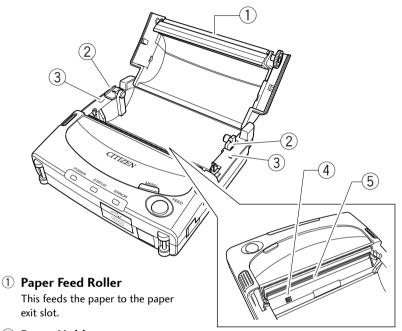
O: LED flashes quickly

: LED flashes slowly
•: not on

*1: Flashes red when there is no paper or when the roll paper cover is open.

External Appearance and Part Descriptions

Inside the Printer



2 Paper Holder

The roll paper is placed here.

③ Cover Open Sensor Switch

Detects whether the roll paper cover is open or closed.

4 Paper End/Black Mark Detection Sensor

Detects whether or not paper is loaded.

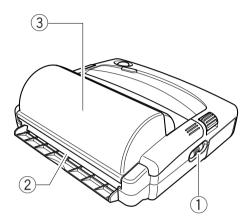
■ About the Black Mark

This is a black sensing mark that is pre-printed on the paper's print side. Once the black mark is detected, you can then feed the paper as needed with more accurate detection of the point where the paper is to be torn.

(5) Thermal Print Head

This is the actual printing component.

Back of Printer



1 Power Switch

Slide the switch towards you and hold it to turn on the power.
Slide the switch towards you and hold it again to turn off the power.



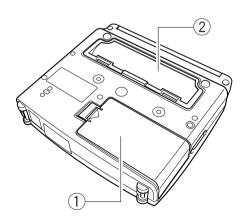
② Cut sheet paper insertion opening

This opening is used to insert the cut sheet paper.

3 Roll paper cover

This is the cover of the roll paper.

Printer Underside



1 Battery cover

Open the battery cover to remove the battery pack.

② Cut sheet paper guide cover

This should not be removed except by service personnel. It is used to clear paper dust and dirt from the cut paper path.

Installing the Battery Pack

This printer is powered by the accessory battery pack and an AC adaptor. Charge and use the battery pack after installing it in the printer.



The battery pack is not charged when it is shipped from our factory. Be sure to charge it before using it for the first time. (Charging method: Page 21)



Do not use any battery or AC adaptor other than the specified products.

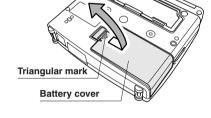


AC ADAPTOR: | BATTERY: DC 8V=2.0A JSE-02008-8

DC 7.2V-2.0A CGR-B/242BR

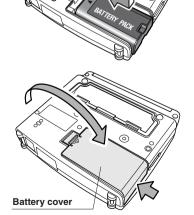
Danger: If you install a replacement battery pack that is the wrong type, there is danger of an explosion. When you have finished using a battery pack, dispose of it as instructed in this manual (page 10).

- Open the battery cover on the back of the printer as shown in the figure.
 - Slide it while lightly pressing the triangular mark on the cover with your finger.



- **2** Check the orientation of the battery pack, put it in place and push it in the direction shown by the arrow.
- **3** Close the battery cover and push the part shown by the arrow.

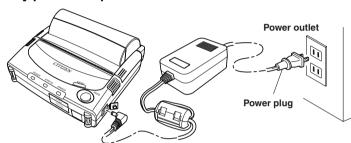
Be sure that the cover is properly closed.



Battery Pack Charging Method

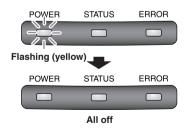
The battery pack installed in this printer can be charged by inserting the AC adaptor in the printer.

- $m{1}$ Insert the AC adaptor power plug into an AC power outlet.
- 2 Connect the AC adaptor to the printer after you have installed the battery pack in the printer.



■ When the printer is not operating

When the AC adaptor is inserted, the POWER LED flashes yellow and the battery starts charging. When charging of the battery pack is completed normally, all LED's are off.



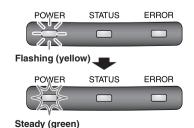
Reference -

If the battery pack is completely discharged, it takes about 4.5 hours to charge it.

When the printer is operating powered by the battery pack

Charging does not occur when the printer is receiving data, printing, or feeding paper (POWER LED is steady green).

If the printer stops in power ON status (printing standby) charging starts and the POWER LED flashes yellow. When charging of the battery pack is completed normally, the POWER LED changes from flashing yellow to steady green.



Battery Pack Charging Method

■ Error indications during charging

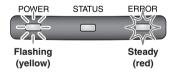
When normal charging is impossible because of problems with the printer or the battery pack or because of the surrounding environment, an error is indicated. (See page 17)

■ Charging warning When the charging environment range is not satisfied

The POWER LED flashes yellow and the ERROR LED is steady red and charging stops. After the charging environment range is restored, charging restarts.

If the temperature of the battery pack or the inside of the printer is too low or too high before starting to charge or while charging the battery pack:

The POWER LED flashes yellow and the ERROR LED is steady red and charging stops. When these temperatures are restored to the charging range, charging restarts.



■ Charging error When there is a battery pack or printer problem

The POWER LED is steady yellow, the ERROR LED is steady red and charging stops instantly.





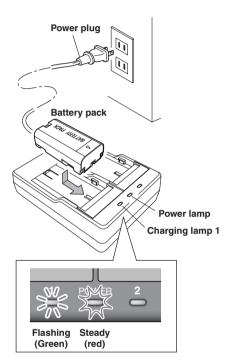
When a charging error has occurred, immediately stop charging and contact the retailer where you purchased it or a repairman.

Charging with the External Charger Option

This explains charging using a separately sold charger, but be sure to read the User's Manual that comes with the charger before using it.

Charging method

- Insert the charger's power plug into an AC power outlet. The POWER LED lights up steady red.
- 2 Insert the battery pack into the charger with its "+" and "-" terminals oriented correctly and slide it in the direction shown by the arrow.
- 3 The charging lamp flashes green and charging starts. When charging is completed it turns off.





When to charge the battery pack

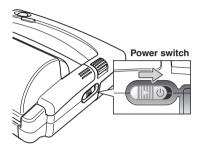
When the battery pack is almost empty of charge, the POWER LED of the printer begins to flash green (see page 17). When this happens, charge it using the external charger or AC adapter.

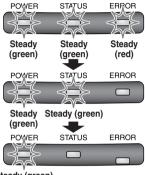
If you continue to use it without charging, the power automatically cuts off, losing printing data.

About the Power Source

Turning the Power On

When you slide the power switch towards you and hold it, all LED's turn on, and if the printer can print, the POWER LED glows steady green. After the POWER LED turns on, release the switch.

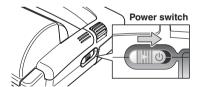




Steady (green)

Turning the Power Off

When you slide the power switch towards you and hold it, the POWER LED changes from steady green to flashing orange. After this happens, releasing the power switch cuts off the power.



Steady (green)
POWER STATUS ERROR

Flashing (Orange)

Auto Power Off (setting the power saving time) Function

The printer can automatically cut off the power to conserve the battery pack when inactive for a specified period of time.

The set time can be changed in menu setting mode between four settings: 3 minutes, 5 minutes, 10 minutes, and invalid. (It is set at 3 minutes when the printer is shipped from the factory.)



When the power has been cut off by the Auto Power Off function, push the power switch again to restore the power. Be careful because all temporary settings in the printer (downloaded character data, text size, etc.) are reset to the VuePrint menu settings when power is turned on again. This function does not operate when it is powered by the AC adaptor.

Loading the Paper

The following types of paper can be printed by this printer.

- Thermal roll paper
- Thermal cut sheet paper (Copy thermal roll paper cannot be used.)
- Thermal copy cut sheet paper

Recommended Papers

Cut sheet paper (Thermal paper, copy thermal paper)

Min. sheet length: 120 mm (4.72 in.) Max. length: 250 mm (9.84 in.)

Recommended designated papers

Thermal paper: Nippon Seishi Co., Ltd. TF50-KS-E2D

Copy thermal paper: Naigai Carbon Ink Co., Ltd. TLC#25 black (designated

paper)

Roll paper

Max. external diameter: 50 mm (1.97 in.) Internal diameter (Diameter at start of winding):

8 mm ~ 8.5 mm (0.32 in. ~ 0.33 in.)

* Neither glued nor folded at its inner end.

Recommended designated paper: Nippon Seishi Co., Ltd. TF50-KS-E2D

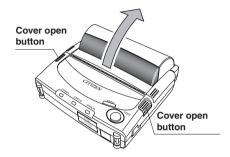


- \bullet The thickness of paper that can be used by auto sheet load ranges from 60 to 65 $\mu m.$
- If the paper thickness is 80 µm or more, it may be impossible to ensure printing quality.
- If any paper other than the recommended designated paper is used, it may be impossible to ensure adequate printing quality, so do not use such paper.
- The density of the printing varies according to the type of printing paper used. It is possible to change the printing density and the printing paper in menu setting mode. (see page 35)
- It is possible to change the printing density and the printing paper with a printer command. For details see Command Reference (attached document).

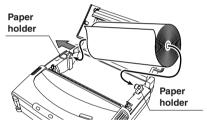
Loading the Paper

Loading Roll Paper

1 Turn on the printer power and push the cover open buttons with both hands to open the roll paper cover.

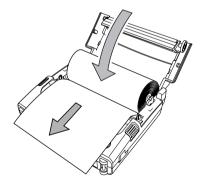


2 Load the roll paper by aligning one edge of it against a paper holder as shown in the figure then pushing it lightly.



3 After pulling the end of the roll paper towards you, push the cover close locations with both hands to close the roll paper cover.

Pull the roll paper straight to prevent looseness. Looseness causes paper jams.

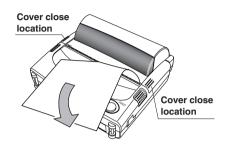




If the cover is open, a cover open error (ERROR LED flashes) occurs. (see Page 17)

When this happens firmly close the roll paper cover again. The error is automatically cancelled.

- 4 Push the FEED button to feed the paper and stop it at the printing start position.
- 5 Holding the end of the roll paper, pull it toward you and cut of surplus paper.

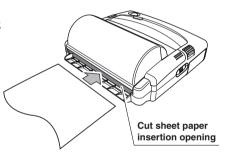


Loading cut sheet paper

Open the cover of the cut sheet paper insertion slot on the back of the printer.

If roll paper is loaded, remove it.

2 Turn on printer power then insert the paper into the cut sheet paper insertion slot on the back of the printer as far as possible; it will be automatically feed to the printing start position.





After the paper has been inserted and fed, check to make sure the paper is loaded straight. If it is bent, it might cause a paper jam.

To prevent the paper from being bent as it is loaded, do not use paper with its front edge torn or folded. (see Page 12)

When paper is used up during printing

When paper is used up during printing, printing stops and the ERROR LED flashes red. When this happens, do not turn off the printer power. If you do, any remaining printing data will be erased.

Connecting the printer to a PC or other communication device

It is possible to select one of the following interface methods to receive printing data.

- Serial interface: PC, PDA, handy terminal
- USB interface: PC etc. equipped with a USB terminal
- Infrared interface
 - IrDA mode (when shipped from factory): PC, PDA, handy terminal
 - IrCZ mode: Handy terminal etc.
- Wireless (Bluetooth) interface (option): Devices equipped with Bluetooth

- Reference

The initial setting (when shipped from factory) is infrared interface (IrDA mode). If it is a Bluetooth version printer, the default setting is set to Bluetooth.

Connecting the accessory specialized RS-232C cable and turning on the printer power automatically changes it to a serial interface. (If "valid" is selected with "Cable IF auto detection", it changes. But it is invalid if the cable is inserted while power is supplied to the printer.)

Change the settings in Interface Selection Mode to reset the interface according to the utilization environment. (see page 43)



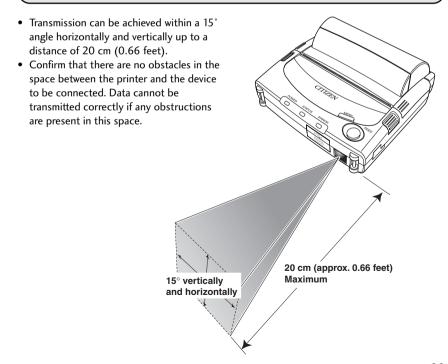
When using each interface, it is necessary to install a driver in or to program the device that is connected to the printer.

Connecting with the Infrared Interface

Direct the printer's infrared port directly towards the infrared port of the device to be linked.



- Data may not be received correctly when transmitted in direct sunlight, under fluorescent lamps, and in other areas with strong light.
- Data may not be received correctly after the printer has been left for an
 extended period in temperatures outside the recommended storage temperature range.
- Transmission distance varies according to the device used and the surrounding conditions, so it may be impossible to establish a connection within the connection range provided in the specifications. There are devices that cannot be connected within 10 cm (0.33 feet) of the light receiver.
- A communication error may occur if it is used connected to another infrared device.



Connecting the printer to a PC or other communication device

Connecting with a Cable

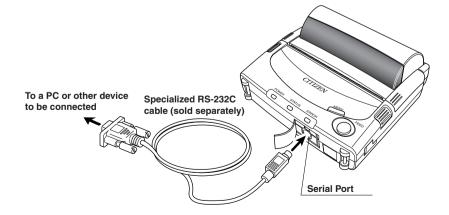
■ Connecting with the RS-232C cable
Use the separately sold specialized RS-232C cable (PD79921-0S).



Precautions When Using the Connector Cable

- Do not touch the metal portion of the cable connector once the other end is connected to the printer port.
- Static electricity poses a risk of damage to the printer's internal circuitry.
- Do not leave the cable wrapped around the printer for extended periods. This may result in short circuiting and discoloration.
- $m{1}$ Turn off the power to the printer and the device to be connected.
- 2 Insert the cable connector straight into the printer's serial port.

 Make the connection being careful about the orientation of the connector. Trying to connect the cable forcibly causes accidents.
- **3** Connect the other end of the cable to the serial port of the device being connected.
- **4** Turn on the power to the printer and the connected device.



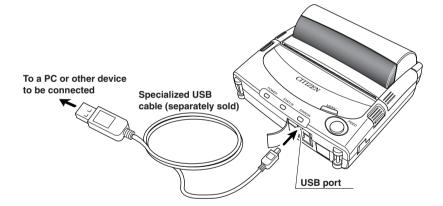
■ Connecting with a USB cable

Use the separately sold specialized USB cable (PD79920-0S).

- $m{1}$ Turn off the power to the printer and the device to be connected.
- 2 Insert the connector of the cable straight into the USB port on the printer.
 - * Make the connection being careful about the orientation of the connector. Trying to connect the cable forcibly causes accidents.
- 3 Connect the other end of the cable to the USB port on the device to be connected.

If the connection is done using a USB cable, select USB interface in Interface Selection Mode.

 $m{4}$ Turn on the power to the printer and the connected device.



Connecting the printer to a PC or other communication device

Connecting with a Bluetooth Interface

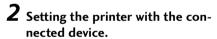
The Bluetooth interface is only available on a Bluetooth Version printer.

1 Bluetooth is automatically selected in the factory. However, if you printer's configuration has been changed, you may need to select it again using the interface selection mode. (See page 43)



Flashing (Orange)

If the Bluetooth interface is installed when the printer is shipped from the factory, it is not necessary to do the setting.



See the Users manual for each connected device.





Wireless Communication Precautions

Many industrial, scientific, medical devices, wireless networking and items such as Microwave ovens all operate in the same frequency band as this Bluetooth version device. Our device is manufactured to ensure it complies with all normal operation standards for such a device. However, we recommend that you follow these precautions to ensure full compatibility in your environment:

- Before using this device, check to make sure that no other systems that are susceptible to interference from a radio transmission device. Such systems may also include power conservation wireless systems used to distinguish items moving nearby.
- 2. If this device does cause interference, immediately stop using the device. Consult your supplier about changing the frequency of operation or measures to prevent interference such as installing partition walls.

Setting the Modes

To enter one of the setting modes, press the relevant button whilst pulling the power switch towards you:

Mode	Button Combination
Print mode	FEED button
(Self print mode, HEX dump print mode)	
Menu setting mode	MENU button
Interface setting mode	FEED button + MENU button

Self print mode

1 With paper loaded, press and hold the FEED button and power switch.

After all the LED have lit up, the POWER LED changes to flashing green.
After it changes, release all buttons.



Flashing (green)

2 Press the MENU button to change the POWER LED from flashing green to steady orange and start self printing.



Steady (orange)

Even if the MENU button is pushed during self print, self print will not be done continuously.

To restart self print, press the FEED button after printing is completed.

3 Turn off the power to leave self print mode.

```
PD-24 SELF-PRINT

NW : (PH-NIX 20X-N-N
FIN: (PH-NIX 20X-N
FIN: (PH-N
```

Example of printing in self print mode

Setting the Modes

HEX Dump Print Mode

With the paper loaded, hold down the FEED button and power switch.

After all the LED have lit up, the POWER LED changes to flashing green.
After it changes release all buttons.



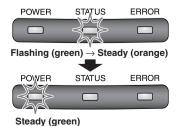
Flashing (green)

Press the FEED button to turn off the POWER LED and start the STATUS LED flashing green.

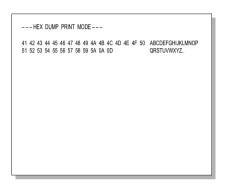


Flashing (green)

While the STATUS LED is flashing green, press the MENU button, changing the STATUS LED from green to orange, lighting up the POWER LED in steady green, then when the STATUS LED turns off, HEX dump print mode begins.



4 Turn off the power to leave HEX dump print mode.

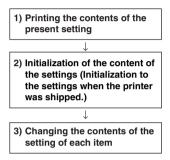


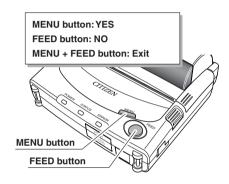
Example of printing in HEX dump print mode

Menu Setting Mode

Menu setting mode is the mode used to change the settings of the printer or return to the initial setting according to the usage environment.

Setting is done using the buttons on the printer by a dialogue method while printing each item.



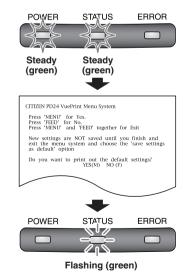


- Entering Menu Setting Mode
- Turn on the power switch while pressing the MENU button with paper loaded to enter menu setting mode.

The POWER LED and STATUS LED light up green, then printing starts and only the STATUS LED is steady green.

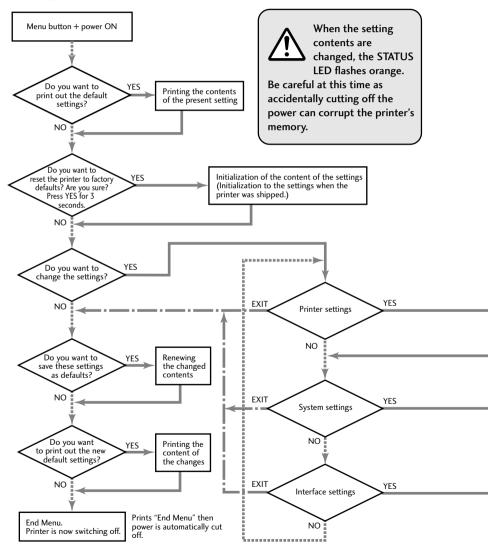
According to what is printed on the paper, set each item with the printer buttons.

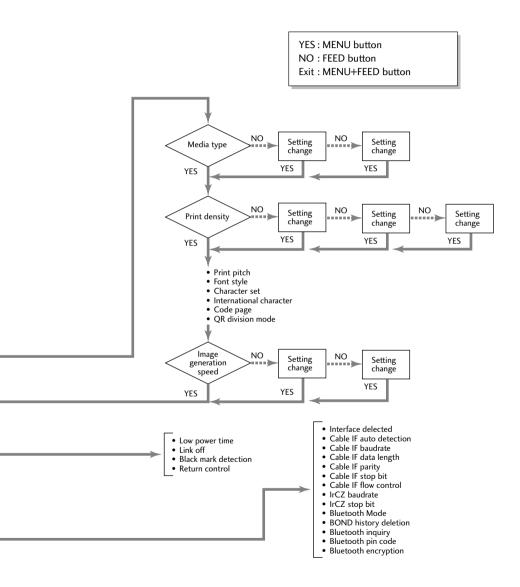
See "Setting Procedure" and "Menu Setting Table" for each item's contents and setting procedure.



Setting the Modes

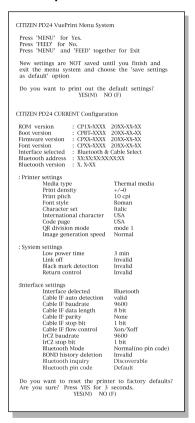
■ Setting Procedure



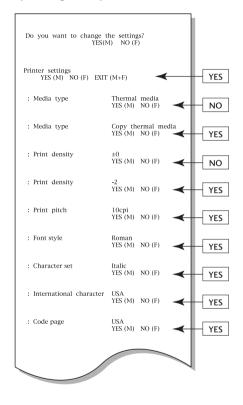


Setting the Modes

Setting contents printing example



Setting change procedure printing example



■ Menu Setting Table

Top Menu	Sub Menu	Initial values	Setting range	Remarks
Printer Settings	Media Type	Thermal media	Thermal media Copy thermal media	Selects media type.
	Print density	0	-2 -1 0 1 2	Sets printing density. The set values differ according to the media type set by the paper setting.
	Print pitch	10срі	10cpi 12cpi 15cpi proportional 17cpi 20cpi	Selects the character size (character pitch).
	Font style	Roman	Roman Sans serif Courier Prestige Script	Selects the character style (shape and appearance of the characters).
	Character set	Italic	Italic Graphic	Selects character code set.
	International character	USA	USA, France, Germany, England, Denmark, Sweden, Italy, Spain, Japan, Norway, Denmark 2, Spain 2, Latin America, Korea, Legal	Selects international characters.
	Code page	USA	USA, MULTILINGUAL, PORTUGAL, FRENCH-CANADA, NORWAY, SCANDINAVIA, YUASCII, LATIN 2, CYRILLIC, RUSSIAN, HUNGARIAN, KAMENICKY, TURKEY, ICELANDIC, WELSH, MAZOVIA, UKRAINIAN, NEW HEBREW, OLD HEBREW, DEC HEBREW, 437 GREEK, GREEK 851, GREEK ABC, GREEK ELOT 928, CYPRUS, MALTA, ARABIC EXT, UNISYS CODEPAGE, BRAZIL ABICOMP, BRAZIL ASCII, LATIN 1, PC858, ISO LATIN 9, US ANSI, CYRILLIC ANSI, EASTEUROPE ANSI	

Setting the Modes

Top Menu	Sub Menu	Initial values	Setting range	Remarks
Printer Settings	QR division mode	mode 1	mode 1 mode 2	Selects the QR Code separation function: Mode 1 where the user separates the data and Mode 2 where the printer separates the data.
	Image generation speed *1	Normal	Normal Fast	Selects image generation speed
System settings	Low power time	3 min	3 min 5 min 10 min Invalid	Sets the time until energy saving starts. Or it can be set to invalid.
	Link off *2	Invalid	Invalid Valid	Function that cancels auto power off, during infrared linking.
	Black mark detection	Invalid	Invalid Valid	Sets black mark detection printing.
	Return control	Invalid	Invalid Valid	If this setting is valid, a response is sent to the FSg of the ESC command and to the ESC-Y command (command to return the status of the printer to the host).
Interface settings	Interface selected	IrDA Bluetooth*	Bluetooth Cable IF IrDA (Infrared Standard) IrCZ (Infrared Citizen) USB	If the printer is a Bluetooth version, the Bluetooth interface is selected in the factory.
	Cable IF auto detection	Valid	Invalid Valid	When set to Valid, the serial interface will take priority when the cable is connected and the printer power is ON.
	Cable IF baudrate	9600	600, 1200 2400, 4800 9600, 19200 38400, 57600 115200	Selects communication speed. (Valid only for RS232C interface.)

Top Menu	Sub Menu	Initial values	Setting range	Remarks
Interface settings	Cable IF data length	8 bit	8 bit 7 bit	Sets the data length. (Valid only for RS232C interface.)
	Cable IF parity	None	None Odd Even	Sets the parity. (Valid only for RS232C interface.)
	Cable IF stop bit	1 bit	1 bit 2 bit	Sets the stop bit (Valid only for RS232C interface.)
	Cable IF flow control	Xon/Xoff	Xon/Xoff DTR/DSR	Sets the flow control (Valid only for RS232C interface.)
	IrCZ Baudrate	9600	9600 19200 38400	Sets the communication speed of the Citizen infrared interface
	IrCZ stop bit	1 bit	1 bit 2 bit	Selects the stop bit of the Citizen infrared I/F.
	Bluetooth mode*3	Normal (no pin code)	Normal (no pin code) Bond (with pin code)	Sets Bluetooth mode (Valid only for Bluetooth interface)
	BOND history deletion*4	invalid	Invalid Valid	Sets Bond history deletion (Valid only for Bluetooth interface)
	Bluetooth inquiry*5	Discoverable	Discoverable Non-Discoverable	Sets Bluetooth inquiry (Valid only for Bluetooth interface)
	Bluetooth pin code*6	Default	Default Optional designation	Sets Bluetooth pin code (Valid only for Bluetooth interface)
	Bluetooth encryption* ⁷	Invalid	Invalid Valid	This menu sets Bluetooth pin code, but prints only during "Optional designation"

Setting the Modes

*1: Image generation speed

If the image generation speed is set to "Fast", printing is performed faster than when it is set to "Normal." But when it has been set to "Fast", following restrictions apply.

- 1) When the page mode is designated, the "DEL" code function cannot be used.
- 2) The both end justification function of the justification tab command "ESC a" cannot be used.
- 3) When the horizontal tab command "HT" and the justification tab command "ESC a" have been used simultaneously, the horizontal tab command "HT" function cannot be used.
- 4) When the absolute position setting command "ESC\$" and the justification tab command "ESC a" have been used simultaneously, the absolute position setting command "ESC\$" function cannot be used. Please refer to the "PD-24 Command Reference" for details pertaining to each command. For information on how to obtain the Command Reference, please ask the supplier where you purchased the product.

*2: Link off

Function that cancels auto power off, during infrared linking

When IrDA is set, if the OS is Windows, the host PC performs a search (BroadCast) to clarify if there is or is not an infrared device of some kind within the infrared communication range and a list of the devices is displayed on the screen.

When the printer is powered by batteries, there may be no response and the names may disappear from the PC screen because the power turns off during the period set by the power saving time setting. If this setting is valid, Auto Power Off stops functioning and the host PC no longer overlooks the printer.

*3: Bluetooth mode

The connected device side may request validation. In such a case, set Bluetooth mode to BOND from Menu setting mode (see page 35), to perform validation. During this operation, the entry of the PIN code on the printer side is requested. The PIN code is allotted the lowest four columns of the BD address. If Self printing is performed (see page 33), the BD address is printed, so refer to it to make the entry.

*4: BOND history deletion

When bonding has been done by Bluetooth, one BOND history is usually stored inside. A device formerly bonded based on this history can be connected without a PIN code.

If this setting is set to valid, the histories stored inside can be erased and a new device connected. The printer operates as follows.

- 1) "Valid" in the "Bond history deletion" menu is set and the VuePrint menu is closed. Then printer power cuts off
- 2) When power has been reconnected, the printer forcibly enters BOND history deletion mode and BOND history is erased. Next printer power is automatically cut off.
- 3) When the power is turned on again, the BOND history deletion setting returns to its initial setting "Invalid," and the printer enters normal mode.

*5: Bluetooth Inquiry

If it is set to "Non-Discoverable, the printer does not respond to normal Inquiry Sca.

*6: Bluetooth pin code (validation code)

Bluetooth pin code can register up to 16 digits.

If it is set to "Default", the lower 4 digits of the BD address are registered as the validation code. If it is set to "Optional designation", the validation code can be registered up to a maximum of 16 digits.

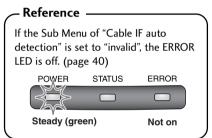
*7: Bluetooth encryption

In this setting, the menu only appears when the Bluetooth pin code is set to "Optional designation". If it is set to "Invalid", Bluetooth pin code (validation coding) can be encoded.

Interface Selection Mode

Press the power switch while pressing the MENU button and the FEED button to start Interface Selection Mode.

When interface selection mode has been started, the LEDs indicate the interface currently selected, as shown in the diagram opposite.

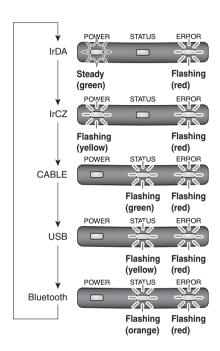


2 Pressing the FEED button changes the LED sequence.

The LEDs will change to show the next interface available, according to the sequence in the diagram. (This does not actually select the interface.)

Pressing the MENU button will cause the setting to be saved permanently and the selected interface to becomes the default interface. The printer will automatically switch off once the setting is saved.

The setting becomes valid when the power is turned on again.

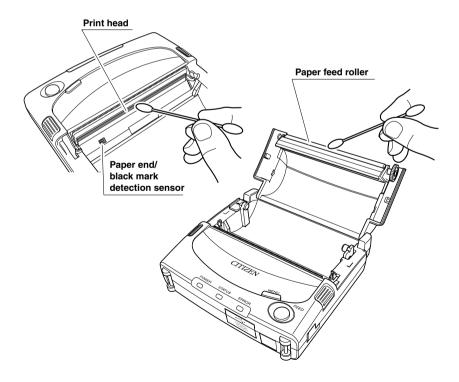


Care and Maintenance

When paper is jammed inside the printer, remove the paper with tweezers etc. Clean dirt and paper powder from the paper feed roller and the printing head with a cotton applicator. If you conscientiously take care of it, you will be able to use it with ease.



- When taking care of it, be careful not to touch the cutter teeth. You may be injured.
- Never bring any hard object in contact with the head. This may result in damage to the unit.
- The print head becomes very hot. Allow the printer to rest for a short to protect yourself from burns.
- If any foreign object gets inside the head or the paper feed gear, it may cause a malfunction.



Troubleshooting

No malfunction may be indicated in the following situations. Check these points before considering malfunction as the cause of your problem.

Problem	Cause	Solution
Printer not operating	 Printer is not turned on. Battery pack voltage falls. Battery pack is not adequately charged. 	Turn on the power. Charge the battery pack.
Paper cannot feed	A foreign object is caught on the gear.	Remove the foreign object.
Error results when executing print command	Printer is not properly connected to other device with cable. Paper is jammed in the printer.	Make sure the printer and the device issuing print commands are connected correctly with the RS-232C cable, then turn on the power to the printer. Check for jammed paper.
Cannot print using infrared transmission	Devices are either too close together or too far apart.	Adjust the distance between the two devices so that they are in the range given in the specifications (page 29).
	• Infrared ports are not on axis.	Align both ports so that they are directly facing each other.

Specifications

Printer

Category		Specification
Printing Method		Direct Thermal
Print Width		104 mm (4.09 in.)
Printhead	Total Dot Count	832 dots
	Dot Pitch	8 dots/mm
	Resolution	203DPI
	Head life	50 million pulses (at printing rate of 12.5%, room temp., and density setting of 0)
	Durability	30km or more for 1P paper
		2 sheets of copy paper (original + 1) 10km or more
Printing speed	Thermal paper	400 dot lines/sec (max. 45 dots/line)
	Copy paper	100 dot lines/sec. (max. 45 dots/line) Conditions: room temp. 25°C / printing density 0/battery fully charged
Paper		Thermal paper sheets (cut paper), copy thermal paper sheets (cut paper), thermal roll paper
Paper width		112 mm (4.41 in.)
Recommended	Thermal paper	TF50-KS-E2D (Nippon Seishi)
paper	Copy thermal paper	TLC#25 black (Naigai Carbon Ink) If any paper other than the recommended designated paper is used, it may be impossible to ensure adequate printing quality, so do not use such paper. Roll paper Copy thermal roll paper is not compatible, do not use it.
Roll paper diameter	Thermal paper	Max. diameter: 50 mm (1.97 in.) Internal diameter (Min. diameter when rolling begins): 8.0-8.5 mm (0.32-0.33 in.)
Paper length	Cut sheet paper	Min. paper length: 110 mm (4.33 in.) Max. paper length: 250 mm (9.84 in.)
Media sensor		Reflection sensor (paper end and black mark)
Paper handling mechanism		Clam shell method (roll paper) Rear loading (cut paper)

Category		Specification
Printing direction		Receipt printing mode Normal printing mode (printing per line while receiving data)
		Page printing mode • Baud rate • Landscape mode
Emulation		ESC/P command compatibility + Citizen original command ESC/POS (supports only barcode commands)
Font	Characters Code	ASCII 96 Characters International Characters (16 Languages + 1 Legal) IBM Graphics Character Code Page 33 page Windows Page 5 page
Fonts style		Roman, Sans Serif, Prestige Elite, Courier Script
Print columns		69 columns But if the character size and character interval in any of the above cases are 0: 46 columns (10CPI), 55 columns (12CPI), 69 columns (15CPI) 79 columns (17CPI), 92 columns (20CPI)
Character font dot matrix sizes		12H x 24H, 18H x 24V (10CPI), 15H x 24V (12CPI), 12H x 24V (15CPI), 10H x 24V (17CPI), 09H x 24V (20CPI)
One-dimensional bar code		UPC-A, UPC-E, JAN13 (EAN), JAN8 (EAN), CODE93, ITF, CODABAR, CODE39, CODE128
Two-dimensional bar code		QR code, PDF417
Interface	Optical interface Serial port USB interface Wireless interface	IrDA mode, 1.2 standard RS-232C mode FULL SPEED mode Bluetooth (Factory option)
Infrared protocol	IrDA protocol Transfe IrCZ protocol Transfe	

Specifications

Category		Specification
Infrared communication distance		When the light transmitter/receivers on the printer and host are set so they are directly facing each other horizontally, and the angle of the host's transmitter to the printer's light receiver is ±15° vertically and ±15° to the right or left. IrDA: max. 20 cm (0.66 feet)
Serial port	Transfer rates	600/1,200/2,400/4,800/9,600/19,200/ 38,400/57,600/115,200 bps
	Parity	Even, odd, none
	Data length	7 or 8 bit
	Stop bit	1 bit, 2 bit
	Reception buffer size	64 KB
LED color	POWER LED green/yello ERROR LED red	w/orange, STATUS LED green/yellow/orange,
Operation	POWER button 1, FEED	button 1, MENU button 1
	POWER LED green/orang	ge, STATUS LED green/orange, ERROR LED red
Power sources	Battery	DC7.2V (type: lithium ion battery pack) (Max. voltage DC8.4V)
	AC Adapter	DC8.0V (sold separately) When the battery pack is mounted on the printer, it can be charged using an AC adapter. But it cannot be charged during data reception and during printing.
Number of lines		Min. 25,000 lines
can be printed continually		ASCII slide pattern continuous printing (Conditions: fully charged battery pack, printing density 0, usage temperature 25°C)
Power check functions		Auto Power Off, Low Power Detect
Environmental conditions	Guaranteed operation temperature	Battery pack: 0°C ~ 45°C AC adapter: 0°C ~ 40°C
	Guaranteed printing temperature	5°C ~ 40°C
	Temperature during storage	−25°C ~ 60°C
	Humidity during operation	30% ~ 90% RH (no condensation)
	Humidity during storage	30% ~ 90% RH (no condensation)

Category	Specification
Obtained standard	UL60950 (3rd), CAN/CSA-C22.2No.60950 (3rd), FCC Part 15 Subpart B (Class B) EN60950-1, EN55022 (Class B), EN55024, EN61000-3-2, EN61000-3-3
Power consumption	Battery: Rated voltage 7.2 V, Rated amperage 2.0 A AC adaptor: Rated voltage 8.0 V, Rated amperage 2.0 A
Acoustic noise	55 dB(A) (by EN ISO 7779)
External dimensions	147 (W) x 140 (D) x 63 (43) (H) mm 5.79 (W) x 5.51 (D) x 2.48 (1.69) (H) in. (Excluding protruding parts)
	147 (5.79) mm (inch)
Weight	Printer 540g (including battery, but without paper)
Accessories	Users Manual, Battery pack, AC adaptor, AC adaptor use power cord, Roll paper (TF50-KS-E2D: diameter 30)
Separately sold parts	Specialized battery pack charger Specialized RS-232C cable, specialized USB cable

Interfaces

Serial Interface

■ Specifications

Transmission method	Two way serial communication
Signal level	RS-232C
Baud rate	600/1,200/2,400/4,800/9,600/
	19,200/38,400/57,600/11,500 bps
Data length	7 or 8 bit
Start bit	1 bit
Stop bit	1 bit, 2 bits
Parity	Even, odd, none
Connector	MD-S8100-10 (JST)

■ Pin layout

No.	Name	I/O	Pin explanation
1	CTS	IN	XON/OFF: not used
			DTR/DSR: not used
2	RTS	OUT	Pull up to $+$ 10V through 3.3 k Ω
3	RXD	IN	Data beam from the host to the printer
4	SGND	_	GND of the signal line
5	TXD	OUT	XON/OFF: Data beam from printer to host
			Transmits XON/XOFF
			DTR/DSR: Not used
6	DTR	OUT	XON/OFF: Always High
			DTR/DSR: High when the printer can receive
			Low when it cannot receive
7	IFSEL		Cable judgement when the optional RS232C cable is connected to
			the printer
8	DSR	IN	XON/OFF: Not used
			DTR/DSR: High when the host can receive
			Low when it cannot receive

^{*} IN: signal from host to printer, OUT: signal from the printer to host

Infrared interface

■ IrDA method

Transfer method	Infrared transfer method
Transfer wave	Wave length peak 850 - 900nm infrared light
Communication conditions	Baud rates 115,200, 57,600, 38,400, 19,200, 9,600bps
Data length	8 bit
Stop bit	1 bit
Parity	None
Communication method	Asynchronous/half duplex
Flow control	Governed by IrDA
Transfer distance	Max. 20 cm (0.66 feet)
Theoretical rating	0: Low level, 1: High level
Reception angle	Vertically ±15°, right or left ±15°

■ IrCZ method

Transfer method	Infrared transfer method
Transfer wave	Wave length peak 850 - 900nm infrared light
Communication conditions	Baud rates 38,400, 19,200, 9,600bps
Data length	8 bit, 7 bit
Stop bit	1 bit, 2 bit
Parity	None
Communication method	Asynchronous/half duplex
Transfer distance	Max. 20 cm (0.66 feet)
Theoretical rating	0: Low level, 1: High level
Reception angle	Vertically ±15°, right or left ±15°

Interfaces

USB Interface

■ Specifications

Transfer method	Complies with Universal Serial Bus Specification	
Transfer rate	Compatible with 12Mbps (full speed) transfer rate	
Reception buffer	64 kB	
Connector	CAM-D89 (Mitsumi Electric)	
Cable	IAM-C17 (Mitsumi Electric)	

■ Pin Layout

Pin number	Signal code	Signal name	Function
1	VBUS	USB power source	USB power source (+5V)
2	D-	Signal line –	– signal line
3	D+	Signal line +	+ signal line
4	GND	GND	GND

Wireless (Bluetooth) Interface (Option)

Transfer method	Bluetooth 1.2 compliant	
Frequency	2.4 GHz	
Modulation method	FH method (Frequency hopping spectrum diffusion method)	
Hypothetical interference distance	10 m	
Transfer rate	723.2k/57.6k bps (but the transfer rate between Bluetooth) The communication speed between Bluetooth and the printer is 115.2kbps.	
Transfer capacity	Up to +4 dBm (Class 2 & Class 3)	
Coding	128 bit	
Security level	Link	
Standard PIN specification	Prepared (16 digits)	
PIN code	Lower 4 digits of the BD address	
Profile	Serial Port Profile	

MEMO —
MEMO



WEEE MARK

- If you want to dispose this product, do not mix with general household waste. There is a separate collection systems for used electronics products in accordance with legislation under the WEEE Directive (Directive 2002/96/EC) and is effective only within European Union.
- Wenn Sie dieses Produkt entsorgen wollen, dann tun Sie dies bitte nicht zusammen mit dem Haushaltsmüll. Es gibt im Rahmen der WEEE-Direktive innerhalb der Europäischen Union (Direktive 2002/96/EC) gesetzliche Bestimmungen für separate Sammelsysteme für gebrauchte elektronische Geräte und Produkte.
- Fr Si vous souhaitez vous débarrasser de cet appareil, ne le mettez pas à la poubelle avec vos ordures ménagères. Il existe un système de récupération distinct pour les vieux appareils électroniques conformément à la législation WEEE sur le recyclage des déchets des équipements électriques et électroniques (Directive 2002/96/EC) qui est uniquement valable dans les pays de l'Union européenne.
 - Les appareils et les machines électriques et électroniques contiennent souvent des matières dangereuses pour l'homme et l'environnement si vous les utilisez et vous vous en débarrassez de façon inappropriée.
- Si desea deshacerse de este producto, no lo mezcle con residuos domésticos de carácter general. Existe un sistema de recogida selectiva de aparatos electrónicos usados, según establece la legislación prevista por la Directiva 2002/96/CE sobre residuos de aparatos eléctricos y electrónicos (RAEE), vigente únicamente en la Unión Europea.
- Se desiderate gettare via questo prodotto, non mescolatelo ai rifiuti generici di casa. Esiste un sistema di raccolta separato per i prodotti elettronici usati in conformità alla legislazione RAEE (Direttiva 2002/96/CE), valida solo all'interno dell'Unione Europea.
- Du Deponeer dit product niet bij het gewone huishoudelijk afval wanneer u het wilt verwijderen. Er bestaat ingevolge de WEEE-richtlijn (Richtlijn 2002/96/EG) een speciaal wettelijk voorgeschreven verzamelsysteem voor gebruikte elektronische producten, welk alleen geldt binnen de Europese Unie.
- Da Hvis du vil skille dig af med dette produkt, må du ikke smide det ud sammen med dit almindelige husholdningsaffald. Der findes et separat indsamlingssystem for udtjente elektroniske produkter i overensstemmelse med lovgivningen under WEEE-direktivet (direktiv 2002/96/EC), som kun er gældende i den Europæiske Union.
- Por Se quiser deitar fora este produto, não o misture com o lixo comum. De acordo com a legislação que decorre da Directiva REEE Resíduos de Equipamentos Eléctricos e Electrónicos (2002/96/CE), existe um sistema de recolha separado para os equipamentos electrónicos fora de uso, em vigor apenas na União Europeia.
- Pol Jeżeli zamierzasz pozbyć się tego produktu, nie wyrzucaj go razem ze zwykłymi domowymi odpadkami. Według dyrektywy WEEE (Dyrektywa 2002/96/EC) obowiązującej w Unii Europejskiej dla używanych produktów elektronicznych należy stosować oddzielne sposoby utylizacji.

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