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Latest Information

Printer Drivers, Servicing and Consumables

For the latest information on you PD-22 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 America Corporation www.citizen-america.com 2102 Alton Parkway – Unit A, Irvine, CA 92606 Tel: (949) 838-0327

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FCC Declaration of Conformity		
We, the Responsible Party:	Citizen America Corporation 2102 Alton Parkway – Unit A Irvine, CA 92606 U.S.A. Telephone (949) 838-0327	
declares that the product:		
Trade Name:	CITIZEN	
Product Name:	Printer	
Model Number:	PD-22	
confirms to the following specif	fications:	
Regulation:	FCC Part 15B, Class B	
Test Method:	ANSI C63.4-1992	
and therefore is in compliance with the protection requirement of FCC Rules relating to electromagnetic compatibility.		
issued on 1, August 2003		
Authorized Signature:		
Ryuhzoh Kondoh		
President		

	DECLARATI	ON OF CONFO	DRMITY
We,	Citizen Systems I Park House 643-651 Staines F Feltham, Middles TW14 8PA. Unite	Europe GmbH Road sex ed Kingdom	CE
declare under ou	r sole responsibility Product Type: Model Name:	that the product: Thermal Printer PD-22	
manufactured by	Crown Young Indu Block 10, Tung Fu Hang Tse Town Lu Shenzhen 518122	ustries Ltd 1 Yue Industrial Area 1 ung Kong District China	
in 2002, to which this declaration relates is in conformity with the following standards: EMC: EN 55022 / 1998, EN61000-3-3 / 1995, EN 50024 / 1998			
Following the provisions of EMC (89/336/EEC) based on the following documents:1. EMI Test Report issued by OHTAMA CO., LTD.2. Immunity Test Report issued by OHTAMA CO., LTD.			
(European Repre	sentative)		<i>,</i> }
London, 1 st Augu	st 2003	Norimitsu Katoh Managing Director	ato
		Citizen Systems Euro	ope 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.

• EMC Directive (89/336/EEC)/EN55022, EN55024 & 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.

Danger	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.
A 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

 \bigwedge This symbol indicates that something must be handled carefully.

- \checkmark 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



• If any foreign matter (metal scraps, water, or other fluid) gets inside the printer, first cut off the power and remove the battery, then contact your service representative. If you use it in this condition, it will start a fire.



Precautions to be followed when operating the printer





Precautions when using rechargeable batteries





• If fluid from a rechargeable battery touches your skin or clothing, there is a danger of it harming your skin, so wash it off with clean water immediately.

Safety Instructions



■ Precautions when using the specialized RS-232C cable



• When using one of the connectors on the printer, do not touch the metal part of the other connector.



• There is a danger of static electricity damaging the internal circuits of the product.

• 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)



Precautions when installing the printing paper



Accessories

Included Accessories

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



User's Manual (This Volume)

Roll Paper (\$30 mm x 10 m)



Size AA Alkaline Batteries (4)

Optional Accessories

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



External Appearance and Part Descriptions



1 POWER LED (POWER: Green)

The green indicator lights up when the power button (${\bf 0}$) is pressed continuously for 2 to 3 seconds.

Additionally, the indicator blinks according to the printer mode (refer to the Error Indication Table). The indicator blinks more slowly when the batteries are running low. Replace the batteries when this occurs.

② ERROR LED (ERROR: Red)

The red indicator lights or blinks when the printer is unable to print because of the following conditions.

Type of Error	POWER LED (Green)	ERROR LED (Red)
Batteries running low		OFF
No paper (used up)	ON	$0 \bullet 0 \bullet 0 \bullet 0 \bullet$
Offline after paper loaded*1	ON	
Printhead overheated	ON OFF ON OFF	ON OFF ON OFF
Paper feed motor overheated	ON	ON OFF ON OFF
Black mark (p. 17) not detected	ON OFF ON OFF	OFF ON OFF ON
Roll paper cover open	ON	
Hardware error	OFF	ON

Time Axis \longrightarrow O ON, \bullet OFF

*1: Indicated only when the printer's internal "offline operation with No-paper error cancelled" setting (p. 28) is set to "ON."

Error Indication Table

External Appearance and Part Descriptions

③ Optical Receiver

Receives printing data through infrared transmission.

④ Serial Port

Connect the optional RS-232C cable here when using the cable for printing.

⑤ POWER Button(())

Turns the printer's power on and off. To turn on the power, press this button continuously (2 to 3 seconds) until the power LED lights up.

6 FEED Button (Paper Feed/Clear Error)

The paper is fed while this button is held down. The feeder does not operate unless the paper is set in the printer.

⑦ Cover Open Button

Slide this button to open the cover. Close the cover after loading a roll paper.

- 8 Paper Check Window Use to confirm that paper is loaded in the printer.
- ③ Cut Sheet Insertion Slot Insert single sheets (cut sheets) of paper here.

10 Paper Exit Slot/Paper Cutter

The printed paper exits from the printer here. The slot includes a cutter (tear bar), which is used to cut the paper from the roll after printing.

1 Roll Paper Cover

Open the cover to load a roll paper. Close the cover after the paper is loaded.

External Appearance and Part Descriptions

Inside the Printer



12 Paper Feed Roller

This feeds the paper to the paper exit slot.

- Paper HolderThe roll paper is placed here.
- Cover Sensor
 Detects whether the roll paper cover is open or closed.
- (5) Paper End/Black Mark Detector

Detects whether or not paper is loaded.

■ About the Black Mark

This is a black marking 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 cut.

(16) **Print Thermal Head** This is the actual printing

component.

17 Battery Cover

Remove the cover to load the batteries (see p. 18).

(18) **Battery Release Strip** Pull it upwards to release the batteries.

- 17

Printer Underside



About the Power Source

The printer only runs on four AA rechargeable or dry cell batteries. This section explains how the batteries are loaded and provides additional information about the batteries.

Loading the Batteries

Have on hand the four AA alkaline batteries provided with the printer. (Follow the same sequence of steps when replacing the batteries.)

1 Slide the battery cover downwards to open the cover.

- 2 Place the batteries in the compartment with each battery's "+" and "-" terminal oriented as shown in the figure.
 - Set each battery from the [+] side. They cannot be inserted from the [-] side.
- **3** Slide the battery cover up again to close.





18 =

Use These Batteries

■ You can use the following batteries with this product. Use only four batteries of identical type.

- AA rechargeable NiMH batteries (Recommended)
- AA rechargeable NiCd batteries
- AA alkaline batteries
- Do not use any batteries other than those listed above.
 - Use of batteries other than those specified may result in damage to the unit.
- The service life of AA alkaline batteries may be reduced according to the environment or the way they are used. In such cases, use AA rechargeable NiMH batteries or AA rechargeable NiCd batteries.

Precautions when using batteries

• The electric power consumption of this printer varies greatly according to the printing type.

When batteries that have been stored for a long time or AA alkaline batteries that have been drained of energy are used, the printing may be too light or printer power may be cut off without any indication of a power reserve error (P. 15).

- The service life of AA alkaline batteries may be shortened depending on the manufacturer and utilization temperature (particularly low temperatures) and the amount of time that has passed since the batteries were manufactured.
- Remove the batteries from the printer if you are not going to use it for a long time. If you do not, the batteries may leak.

About Battery Chargers

When using NiMH or NiCd batteries, be sure to obtain an appropriate charger that conforms to the specifications for the respective battery type.

About the Power Source

Turning the Power On and Off

Press the power button (${\bf 0}$) continuously for 2 to 3 seconds to turn on the power.

- The green POWER LED lights.
- The red ERROR LED blinks rapidly if no paper is set in the printer.

Press the POWER button (0) again to turn off the power.

• The POWER LED goes off.



■ About the Auto Power Off Function

If the conditions listed below continue unchanged over a predetermined time period, the printer automatically shuts off to save battery power (this shutoff time is set at the factory at three minutes).

- No data received
- No operation with the FEED button (paper feed/clear error)

If the printer happens to be turned off with the Auto Power Off function, press the POWER button (\bigcirc) to turn the printer on again.



Connecting the Printer

Data Reception Methods

The printer provides two interfaces for receiving print data and other information: the serial port and the infrared port (optical interface). The interface selection automatically switches according to whether or not the RS-232C cable is connected to the serial port. Data is transferred through the serial port only if the RS-232C cable is connected before the printer is turned on.

- Connecting with the Infrared Port (Optical Interface)
- 1 Direct the printer's infrared port straight at the port of device to be linked.
 - Transmission can be achieved within a 15° angle horizontally and vertically from center.
 - Confirm that there are no obstacles in the space between the printer and the device to be connected. Data cannot be transmitted correctly if any obstructions are present in this space.



Connecting the Printer

- Connecting with the Serial Port (Cable) First obtain the optional RS-232C cable (PD79901-0S).
- **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.
 - Take care not to connect it upside down. (The connector is connected with the side marked "PUSH" facing upwards). Forcing the connection may damage the unit.
 - To disconnect the connector, pull it out while pressing the part marked "PUSH".
- **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.
 - Data is transferred through the serial port (through the RS-232C cable) only if the cable is connected before the printer is turned on.





Loading the Paper

Loading Roll Paper

- Turn on the printer.
 The ERROR LED blinks if no paper is set in the printer.
- 2 Slide the Cover Open button towards you to open the cover.
- **3** Place roll paper in the paper holder so that the end of the paper is extending toward you, as shown in the figure.
- 4 Move the cover towards you so that the end of the paper extends slightly from the paper exit slot.
 - Close the cover after removing slack from the roll paper that you are using. Slackness may cause a paper jam.
- 5 Firmly close the cover with both hands.



Make sure the cover is fully and securely closed.



Loading the Paper

■ If the Paper is Not Loaded Straight

Slide the cover OPEN button to open the cover, then adjust the paper by hand. After confirming that the paper is completely straightened, securely close the cover.





Do not allow the printed paper to enter the single sheet (cutsheet) insertion slot.

When Printing is Finished

When you have finished printing using the roll paper, slowly pull back the printed paper at an angle along the paper cutter, allowing you to cut it from the roll.





Loading the Paper

Feeding Single Sheets (Cutsheets)

1 Turn the printer on.

- Confirm that the roll paper cover is closed.
- The ERROR LED blinks if no paper is set in the printer.
- 2 Insert the paper as shown in the figure, by feeding the end of a single sheet into the single sheet insertion slot.
 - The printer automatically takes up about 15 mm (0.6 inch) of the paper, the ERROR LED goes off, and the unit is ready for printing.



The paper is loaded automatically when the internal setting controlling the automatic paper feed is set to "ON."

Make sure the cover is fully and securely closed.

■ Use of the following single (cut) sheet paper is recommended. Normal thermal paper (1 sheet type): TF50KS-E2C (Nippon Seishi) Copy thermal paper (2 sheet type): TLC#25 Black (Naigai Carbon Ink)

Special Labels: HW54S (Nippon Seishi)

Printing Test



Self-Print Function

- 1 With the paper loaded, simultaneously hold down the POWER button (也) and FEED button.
- 2 When the POWER LED and the ERROR LED are blinking together, release the POWER button (().
- **3** When the POWER LED and the ERROR LED begin to blink alternately, release the FEED button.
- 4 Press the FEED button to begin the selfprint test.
 - To repeat the test, press the FEED button again after the previous test is completed.

PD-22 SELF-PRINT

 ROM
 : CK10-0A01
 2002-03-29

 FIRM
 : CK10-0AXX
 2002-03-29

 CG
 : CK10X01
 2002-03-08

 BOOT
 : CK00-000F
 2002-02-28

 BOAD RELYSOIN
 : 2.0
 IF

 FSELECT
 : R
 .

[Roman] !"#\$%&'()*+,-./01234 56789:;<=>?@ABCDEFGHI JKLMNOPQRSTUVWXY2[\]^ _`abcdefghijklmnopqrs tuvwxy2{]}~

[Sans serif] !"#\$%&'()*+,-./01234 56789:;<=>?@ABCDEFGHI JKLMNOPQRSTUVWXYZ[\]^ `abcdefghijk|mnopqrs tuvwxyz{|}~

[Courier]
!"#\$%&`()*+,-./01234
56789:;<=>?@ABCDEFGHI
JKLMNOPQRSTUVWXYZ[\]^
`abcdefghijklmnopqrs
tuvwxyz[]}

```
[Prestige]
!"#$%&'()*+,-./01234
56789:;<=>?@ABCDEFGHI
JKLMNOPQRSTUVWXYZ[\]^
_`abcdefghijklmnopqrs
tuvwxyz[]}~
```

[Script] !"#\$%&'()*+,-./01234 56789:;<=>?@ABCDEFGHI JKLMNOPQRSTUVWXVZ[\]^ `abcdefghijklmnopqrs tuvwxyz[]}

Hex Dump Function

The HEX dump function is used to judge whether or not the transmitted data is correct or not.

- 1 With the paper loaded, simultaneously hold down the POWER button (也) and FEED button.
- 2 When the POWER LED and the ERROR LED are blinking together, release the POWER button (⁽¹)).
- **3** The POWER LED and the ERROR LED start blinking alternately, slowly at first. When the LED starts blinking faster, release the FEED button.
- **4** Press the FEED button to execute the hex dump.

---- HEX DUMP PRINT MODE -----31 32 33 34 35 36 37 38 12345678 39 30 41 42 43 44 45 46 90ABCDEF 47 48 49 4A 4B 4C 4D 4E GHIJKLMN 4F 50 51 52 53 54 55 56 OPQRSTUV

Printing Test

Internal Menu Settings List Print Function

- 1 With the paper loaded, simultaneously hold down the POWER button (也) and FEED button.
- 2 When the POWER LED and the ERROR LED are blinking together, release the POWER button (()).
- **3** The POWER LED and the ERROR LED alternately blink, slowly at first, then a little faster, then very fast; when they are flashing very fast, release the FEED button.
- **4** Press the FEED button to begin printing of the internal menu settings.
 - When the internal menu settings are printed out, the printer automatically turns off.
- **Note:** The Internal Settings of the printer are usually pre-configured by the supplier for the particular application. These settings can be changed by software commands from a computer or using a special configuration utility under Windows. For further details of this, please contact your supplier or visit Citizen's web sites shown at the beginning of this manual.

PD-22 SETUP REPORT Baud rate 9600bps Data bit length 8 Stop bit 1 Parity bit None S/I Protocol X-ON/X-OFF Print density 0 Paper selection Plain paper

Automatic paper feed Enable

```
Eye-mark
Disable
```

```
Character code set
Italic
```

International character code USA

```
Print pitch
10 cpi
```

Font typeface Roman

Code page USA

Auto-power off 3min

```
Printer status respo-
nse
Disable
```

Offline status at reloading paper Disable

Care and Maintenance

If the paper becomes jammed inside the printer, or if some other such problem occurs, remove the paper and clean the printer's interior.

- **1** Turn off the printer.
- 2 Slide the cover OPEN button towards you to open the cover.
- **3** Use a cotton swab or other such soft object to wipe any grime and paper dust from the feed roller and print (thermal) head.





• 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.
- Dropping the printer may cause a malfunction. Handle it very carefully.

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 "+" and "-" terminals are reversed. Batteries are running low. 	 Press the POWER button ((). Install the batteries so that they are in the proper direction. Replace all batteries with fresh batteries. If using rechargeable batteries, fully charge the batteries.
	 Rechargeable batteries are not sufficiently charged. 	Change the batteries again.
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.	• 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.
	 Printer is not turned on. Paper is jammed in the printer.	 Turn on the power. Open the paper roll cover and remove the jammed paper or other obstruction.
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 (p. 21).
	• Infrared ports are not on axis.	• Align both ports so that they are directly facing each other.

Note: The service life of AA alkaline batteries may be reduced according to the environment or the way they are used. In such cases, use AA rechargeable NiMH batteries or AA rechargeable NiCd batteries.

Optional AC Adaptor Kit

Installing the Battery Adaptor

- 1 Remove the battery cover from the printer. (Remove batteries if there are any loaded.)
- **2** Push in the battery adaptor as shown in the figure.
- **3** Connect the AC adaptor cord.
- **4** Attach the battery adaptor cover.

Notes:

- This kit is for use with this printer only. You cannot use it with other products.
- Be sure to insert the battery adaptor before connecting the AC adaptor.
- When the AC adaptor is connected, there is voltage at the battery adaptor's terminals. Do not create a short between the two terminals.
- When using batteries, be sure to use the original battery cover.



Specifications

Category	Specification	
Printing Method	Direct Thermal	
Print Speed	 Normal thermal paper (1 sheet type): 300 dotlines/second (maximum) (64 dots/line or less) Print speed with batteries fully charged and printer set to fast printing Copy thermal paper (2 sheet type): 100 dotlines/second (64 dots/line or less) Print speed with batteries fully charged and printer set to fast printing 	
Printhead	Total Dot Count: 384 dots/dotline Dot Pitch: 8 dots/mm Print Width: 48 mm (1.89 in.) Head Life: 50 million pulses (12.5% print ratio, normal tempera- ture, rated energy) But not if the head has been damaged by a foreign object. Durability: Recommended designated paper. 30 km (32808 yd.) or greater (w/specified paper). 10 km (10936 yd.) or greater (transfer paper: original + one sheet)	
Print Direction	Portrait: Normal print mode (printing while receiving data) Page mode: Printing after reception of data for one page Landscape: In page mode only	
Emulations	Conforms to ESC/P commands, barcode commands (ESC/POS compatible)	
Fonts	Roman, Sans serif, Courier, Prestige, Script	
Character codes	ASCII 96 Normal Characters International Characters: 16 Languages +1 Legal Character set IBM Characters and Graphics Code page: 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, GREEK 437, GREEK 851, GREEK ABC, GREEK ELOT 928, CYPRUS, MALTA, ARABIC NLS, ARABIC EXT, UNISYS, BRAZIL ASCII, BRAZIL ABICOMP, LATIN 1 Windows Page: US ANSI, CYRILLIC, ANSI, EAST EUROPEAN	
	ANSI	

Category	Specification
Print Columns	21 columns (10 CPI), 25 columns (12 CPI),
	32 columns (15 CPI), 36 columns (17 CPI)
Character Font Dot Matrix Sizes	18 H x 24 V (10 CPI), 15 H x 24 V (12 CPI),
	12 H x 24 V (15 CPI), 10.5 H x 24 V (17 CPI)
Barcodes	UPC-A, UPC-E, JAN13 (EAN), JAN8 (EAN), ITF, CODABAR,
	CODE39, CODE128
Print Paper	
1) Paper Feed Method	Friction Feed
2) Media Width	58 [°] ₋₁ mm (2.28 [°] _{-0.04} in.)
3) Paper Path	Rear (Clamshell)
4) Media Types	Single Sheet (Cut Sheet)/
	Continuous 1-sheet or copy paper (original + 1 sheet)
	(only folded paper supported for continuous transfer paper)
5) Recommended Papers	1-sheet Paper: TF50KS-E2C (Nippon Seishi)
, , , , , , , , , , , , , , , , , , , ,	Copy Paper: TLC#25 Black (Naigai Carbon Ink)
	Special Labels: HW54S (Nippon Seishi)
	Paper Roll Diameter:
	Maximum outer diameter \$30 mm (\$1.18 in)
	Minimum diameter for starting roll ϕ 8 mm (ϕ 0.32 in)
	* Do not fold back or apply adhosives to paper rolls ands
lute of a sec	Ortical later for a strDA 1.0:
Interfaces	Optical Interface <ifda 1.0=""></ifda>
IrDA Interface	Transfer Rate: 115200 bps (maximum)
Serial Port	Transfer Rates: 4800, 9600, 19200, 38400, 57600, 115200 bps
	Parity: Even, Odd, No
	Data Length: 7- or 8-bit
	Stop bit: 1- or 2-bit
IR Transfer Range	Figures apply with printer and computer ports on-axis and directly
	facing each other, with the computer IR port within a vertical and
	horizontal angle $\pm 15^{\circ}$ from center
	IrDA: Maximum 60 cm (approx. 2 ft.) (may vary according to the
	computer and environmental conditions; see p. 18)
Input Buffer Size	64 KB
LED Color	POWER LED: Green ERROR LED: Red

Specifications

Category	Specification
Power Source	4 x AA cells (Rechargeable NiMH/Rechargeable NiCd/Alkaline)
	Supply Voltage
	Rechargeable NiMH: 4.8 V DC
	NiCd: 4.8 V DC
	Dry Cell Alkaline: 6.0 V DC
Power Check Functions	Auto Power Off, Low Power Detect
Continuous Print Lines	Approximately 14000 Lines (with rechargeable NiMH batteries) Count for continuous print of slide patterns at 25°C (77°F), with
	unused AA rechargeable NiMH batteries loaded and print density set to 0; the number of lines that can be printed continuously
	varies according to the manufacturer of the batteries, the
	utilization temperature, and the amount of time that has passed
	since the batteries were manufactured. The above numbers of
	lines are criterion that cannot be assured.
Environmental Conditions (with rechargeable NiMH/rechargeable NiCd batteries)	
	Warranted Print Temperature: 5°C (41°F) to +40°C (104°F)
	(with rechargeable NiMH/NiCd batteries)
	Storage Temperature: $-20^{\circ}C$ ($-4^{\circ}F$) to $+60^{\circ}C$ ($140^{\circ}F$)
	Operational Humidity: 30% to 90% RH (no condensation)
	Storage Humidity: 30% to 90% RH (no condensation)
Applicable Standard	FCC Part 15B, Class B/EN55022/EN55024/EN61000-3-3
Power Consumption	7 W (with rechargeable NiMH/NiCd batteries), 8 W (with alkaline batteries)
Dimensions	77.4 mm (W) x 108.3 mm (D) x 35.4 mm (H)
	(3.05 in. (W) x 4.26 in. (D) x 1.39 in. (H))
Weight	Printer (including four AA alkaline batteries) 215 g (0.474 lb.) or less
Included Accessories	User's Manual, Size AA Alkaline Batteries (4), 30 mm (1.18 in.)
	diameter Roll Paper (length approximately 10 m (32.8 ft.))
Optional Accessories	RS-232C cable (9-pin D-sub type connector/Part No. PD79901 -
	OS), Roll Paper, AC Adaptor Kit (Part No. PD69957-0S)

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