CITIZEN

LINE THERMAL PRINTER MODEL CL-E300/CL-E303 User's Manual



CITIZEN SYSTEMS JAPAN CO., LTD.

WEEE MARK



If you want to dispose of this product, do not mix it 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.



Fr

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.

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.

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.

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.

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.



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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Compliance Statement for European Users

CE marking shows conformity to the following criteria and provisions:

Low Voltage Directive (2014/35/EU), EMC Directive (2014/30/EU), and RoHS directive (2011/65/EU)

Full text of the EU declaration of conformity is available at the following internet address:

http://www.citizen-systems.co.jp/english/support/download/printer/others/eu_doc/

FCC Compliance Statement for American Users

FCC Related Information

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 harmful 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 the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Pursuant to FCC regulations, you are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Sicherheitshinweis

Die Steckdose zum Anschluß dieses Druckers muß nahe dem Gerät angebracht und leicht zugänglich sein.

EMI Compliance Statement for Canadian Users

This **Class B** Information Technology Equipment (ITE) complies with Canadian CAN ICES-3(B)/NMB-3(B).

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. This Information Technology Equipment (ITE) does not exceed the **Class B** limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications. This equipment is designed to provide reasonable protection against such interference in a residential installation.

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 the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

État de conformité EMI à l'usage des utilisateurs Canadiens

Cet Équipements informatiques (EI) de la **classe B** est conforme à la norme CAN ICES-3(B)/NMB-3(B) du Canada.

Cet équipment produit et utilise l'énergie à radiofréquences et s'iln'est pas installé et utilisé correctment, c'esst à dire en accord strict avec les instructions du fabricant, il risque de provoquer des intérferences avec la réception de la radio et de latélévision.

Le présent Équipements informatiques (EI) n'émet pas de bruite radio électriques dépassant les limites applicables aux appareils numériques de la **classe B** prescrites dans le Réglement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

Cet équipment est conçu pour fournir une protection satisfaisante contre de telles interférences dans une installation résidentielle.

Cependant, il n'y a pas de garantie contre les interférences avec les réceptions radio ou télévision, provoquées par la mise en et hors circuit de l'équipment; aussi, il est demandé a l'utilisateur d'essayer de corriger l'interférence par l'une ou plus des mesures suivantes:

- Réorienter l'antenne de réception.
- Installer l'ordinateur autre part, par égard pour le récepteur.
- Brancher l'ordinateur dans une prise de courant différente de façon à ce que l'ordinateur et le récepteur soient branchés sur des circuits différents.
- Consulter le revendeur ou un technicien radio/ TV expérimenté pour toute assistance.

GENERAL PRECAUTIONS

- Before using this product, be sure to read through this manual. After having read this manual, keep it in a safe, readily accessible place for future reference.
- The information contained herein is subject to change without prior notice.
- Reproduction or transfer of part or all of this document in any means is prohibited without permission from Citizen Systems.
- Note that Citizen Systems is not responsible for any operation results regardless of omissions, errors, or misprints in this manual.
- Note that Citizen Systems is not responsible for any trouble caused as a result of using options or consumables that are not specified in this manual.
- Except explained elsewhere in this manual, do not attempt to service, disassemble, or repair this product.
- Citizen Systems Japan Co., Ltd. shall not be liable for damages caused by improper or incorrect usage or by the usage environment.
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SAFETY PRECAUTIONS...which should be strictly observed

Before using this product for the first time, carefully read these SAFETY PRECAU-TIONS. Improper handling may result in accidents (fire, electric shock or injury). In order to prevent injury to operators, third parties, or damage to property, special warning symbols are used in the User's Manual to indicate important items to be strictly observed.

- After having read this Manual, keep it in a safe, readily accessible place for future reference.
- Some of the descriptions contained in this manual may not be relevant to some printer models.

The following describes the degree of hazard and damage that could occur if the printer is improperly operated by ignoring the instructions indicated by the warning symbols. Be sure to read this information carefully.

Neglecting precautions indicated by this symbol may result in fatal or serious injury.

Neglecting precautions indicated by this symbol may result in injury or damage to property.



This symbol is used to alert your attention to important items.

Warnings



- Do not perform any of the following actions as they may result in damage or malfunction of the device, overheating, the generation of smoke, fire, or electric shock. If the device is damaged or defective, turn off the power, disconnect the power plug from the electrical outlet, and contact your retailer.
- Do not step on, drop, hit, or otherwise subject the device to significant force or impact.
- Do not use the device in environments of poor ventilation or in a manner that blocks device vents.
- Do not use the device in environments, such as laboratories, where chemical reactions occur or environments exposed to air that contains salt or toxic gases.
- Use the device in environments at specified power supply voltage and frequency (100 to 240 V and 50/60 Hz).
- Do not connect or disconnect the power cord or an interface cable by holding the cable itself. Do not pull or carry the device while cables are under load.
- Do not drop or insert small objects such as clips or push-pins into the device.
- · Do not connect too many power cords to a single electrical outlet.
- Do not spill tea, coffee, juice, or other beverages onto the device. Do not subject the device to insecticides. If liquid is spilled onto the device, turn off the power, disconnect the power plug from the electrical outlet, and contact your retailer.
- Do not disassemble or modify the device.
- Do not use non-specified AC adapters.
- Use only the included power cord. Do not use the included power cord with other devices.
- · Do not use deformed or damaged power cords.
- Do not unnecessary process power cords.
- Exposed wire due to damaged power cords or melted sheaths may cause current leakage, malfunction, or electric shock. Contact your retailer if the power cord becomes damaged.
- Do not place objects around the power plug.

General Precautions

Observe these precautions to ensure proper use of the device. Make sure to read these precautions.



- Do not touch the area around the thermal head during or right after the printing process. This area will be hot and may cause burns.
- Do not drop or insert small objects such as clips or pins into the printer. Doing so may result in failure.
- Exercise caution when carrying or transporting the device. Dropping the device may damage other objects or cause injury.
- Make sure to open the printer cover fully when it needs to be opened. Failure to do so may result in the printer closing unexpectedly, which may cause injury.
- Exercise caution when the printer cover is open. Contact with edges may result in injury.
- Do not open the printer cover while the printer is printing.
- Do not use thinner, trichlene, benzene, ketone-based solvents, or cleaning cloths with chemicals to clean the case surface.
- Do not use the device in environments exposed to significant levels of oil, metal shavings, waste, and dust.
- Do not spill liquids onto the device or expose the device to spray chemicals.
- Do not step on, drop, hit, or otherwise subject the device to significant force or impact.
- Make sure to use the control panel correctly. Pressing buttons randomly may cause malfunction and even failure. Do not use sharp objects including tips of pens to operate the control panel.
- If some abnormality occurs during use, immediately stop using the device and disconnect the power plug from the electrical outlet.
- Do not disassemble the device for repairs in case of failure. Always contact the dealer for repairs.
- The auto cutter has internal blades near the media discharge port. Never insert hands inside the media discharge port whether the printer is operating or not.
- There is a risk of the thermal head being damaged by static electricity. Take measures to prevent the charging of static electricity in advance, and do not directly touch the thermal head heating element and connector terminal parts when handling the printer.

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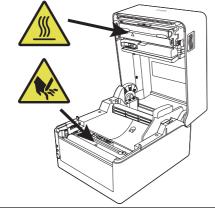
Installation Precautions



- Do not use or store the device in environments exposed to excessive heat, moisture, direct sunlight, near heaters, extremely high or low altitudes, excessive humidity, or excessive dust.
- Do not use the device in environments, such as laboratories, where chemical reactions occur.
- Do not use the device in environments exposed to air that contains salt or toxic gases.
- Place printers on level, stable surfaces in environments with good ventilation. (Do not place the printer such that the vents are against walls.)
- Do not place objects on top of the device.
- Using the device near radios or televisions or plugging the power cord into the same electrical outlet as used by such devices may cause reception interference.
- Use the device in environments at specified power supply voltage and frequency.
- Use only the included power cord. Do not use the included power cord with other devices.
- Do not place objects or step on power cords.
- Do not pull or attempt to carry the device by the power cord or an interface cable.
- Do not connect too many power cords to a single electrical outlet.
- Do not bundle the power cord.
- Hold the power cord by the power plug to connect and disconnect to/from electrical outlets.
- Ensure connectors are properly connected. In particular, reversing the polarity may damage internal parts.
- Turn the power switch off before connecting or disconnecting interface cables.
- Do not run long signal lines or make connections with noisy devices to the extent possible. If necessary, use shielded twisted pair cables for signal lines and take any other necessary steps to ensure signal integrity.
- Place the device near an electrical outlet and ensure that the power plug can be unplugged easily so that the power to the device can be cut quickly if necessary.
- Use electrical outlets with ground terminal screws. Using electrical outlets without ground terminals may result in injury due to static electricity.
- Do not install the printer in a location where there is vibration or in an unstable location.

PRECAUTIONS IN HANDLING THE PRINTER

Caution label is attached in the position shown in the following figure. Carefully read the handling precautions before using the printer.



These labels indicate that the head becomes hot, so touching it may cause burns, and touching the auto cutter and manual cutter when opening the paper cover may cause cuts on hands.

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1. GENERAL OUTLINE

Thank you for purchasing the Citizen Systems Line Thermal Printer CL-E300 / CL-E303.

This printer is a line direct thermal printer developed for labels, tags, tickets, and many other applications.

1.1 Features

< Compact and Stylish Design >

- Boasting the smallest footprint in the industry, this printer was designed to be compact to free users from placement restrictions.
- The stylish design enables the device to be used in different environments.
- Exterior color options include black and pure white.

< High-speed, High-quality Printing >

• This printer utilizes the direct thermal method and a thermal print head and includes

a 32-bit RISC CPU with a maximum operating frequency of 216 MHz and thermal history control to provide high-speed, high-quality performance up to 8 IPS with the CL-E300 model and up to 6 IPS with the CL-E303 model.

< Adjustable Sensors Provided as Standard >

• Adjustable media/black line sensors are provided as standard so that the detection position can be adjustable horizontally. This enables sensors to be placed at detection positions suitable for different types of media.

< Interface >

 Standard interfaces include a 9-pin, DSUB RS232C interface, full-speed USB 2.0 port, and an Ethernet port that supports 100BASE-TX and 10BASE-T. These interfaces enable high-speed connections to many peripheral devices.

< Excellent Usability >

- Manual media cutters are installed at the top and bottom of the media discharge port to cut media after being printed for better usability in many different environments.
- The operation panel has been designed to have a different color than the main exterior color for better visibility and stress-free operation.
- Thermal heads and platen rollers can be easily replaced without the use of tools.

< Easy to Use >

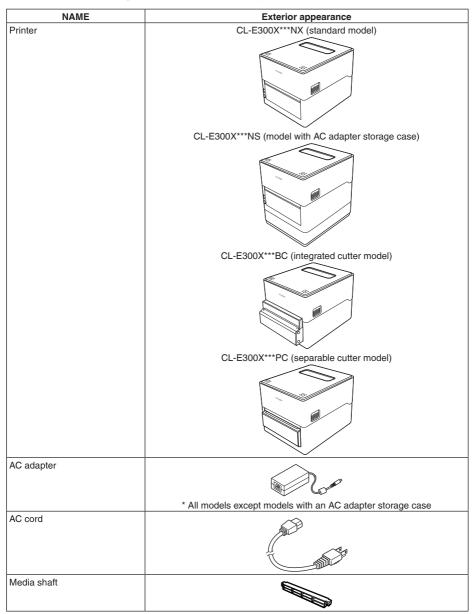
- Use the LabelPrinterUtility developed by Citizen to configure printer settings from a host computer.
- The built-in LinkServer[™] printer tool can be used over Ethernet connections to change settings and perform other operations.
- Printer includes functionality to enable users to quickly adjust head balance.

<Models with cutter and models with AC adapter storage case are available>

- Models equipped with an auto cutter are also available.
- The auto cutter models that are available include the integrated fixed blade/adjustable blade model and the separable fixed blade/adjustable blade model.
- Models that allow you to store the AC adapter at the bottom of the printer are also available.

1.2 Unpacking

Make sure the following items are included with your printer.



| NAME | Exterior appearance |
|--|--|
| Media shaft guide | Je start and a start and a start a sta |
| USB cable | |
| CD-ROM | |
| Quick Start Guide Safety Instructions | |

1.3 Model Classification

Model numbers indicate printer features according to the following system.



- 1. Model name CL-E300: 203 DPI CL-E303: 300 DPI
- 2. Fixed value
- 3. Market
 - A: Asia
 - C: China
 - E: Europe
 - U: North America
- 4. Body case color B: Black W: Pure white
- 5. Interface N: USB port, wired LAN, and serial port

6. Cutter

N: None BC: Integrated PC: Separable

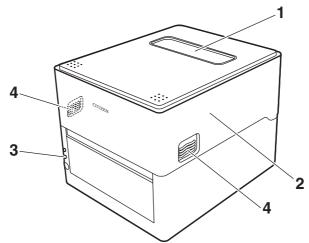
- 7. AC adapter storage case
 - X: Not available
 - S: Available

Certain combinations may not be available. Please contact us for inquiries on desired configurations.

2. Part Names and Function

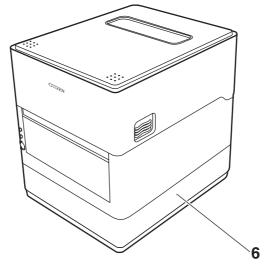
2.1 Front of Printer

CL-E300X***NX (standard model)



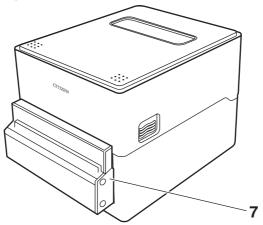
CL-E300X***NS (model with AC adapter storage case)

* The figure illustrates the standard model with AC adapter case.

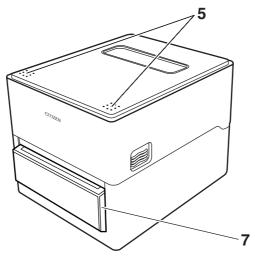


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CL-E300X***BC (integrated cutter model)



CL-E300X***PC (separable cutter model)



1. Media window

Enables users to check the media level.

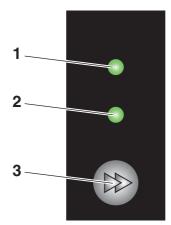
- 2. Top cover Opens upward so users can replace or set media.
- 3. Operation panel

Includes 2 LEDs and 1 key. Enables users to perform different printer operations and check printer status.

Refer to 2.2 Operation panel

- Cover release buttons
 The cover is opened by pressing the buttons on both the right and left sides.
- 5. Push marks
- 6. AC adapter case
- 7. Auto cutter

2.2 Operation panel



The operation panel includes 2 LEDs and 1 key.

1. Power LED

Turns on when the power is turned on and turns off when the power is turned off.

2. Status LED

Turns on or flashes in green, red, and amber depending on the printer status.

| Color | Lights/ flashes | Status |
|-------------------|--------------------|-------------------|
| Green | On | Printer is online |
| | Flashes | Receiving data |
| Amber | On | Startup |
| Red, green, amber | Flashes | Error or alarm |
| - | Off | Paused |

- 3. FEED key
 - Feeds media when pressed while the printer is waiting to receive data.
 - Pressing and holding this key for at least 3 seconds changes the operation mode to the online configuration mode.

Refer to 8. Online Configuration Mode

• Turning on the power to the printer while pressing and holding the FEED key with the cover closed changes starts the printer in the special function mode.

Refer to 7. Configuring the Printer Using the Operation Panel

Other key operation varies depending on the currently selected mode. Refer to "FEED Key Operation" for more information.

2.3 FEED Key Operation

Online state (status LED is solid green)

(1) Press the FEED key while the printer is not receiving data to feed media.

- If label media is specified, the printer automatically stops after detecting the beginning of media. If continuous media is specified, the printer stops after a certain amount of feed operation.
- If Tear off mode is selected in the Function Select setting, the printer feeds media to the tear-off position.
- For models with a cutter, the printer will feed media to the cut position and then cut the media.
- (2) Press and hold the FEED key for at least 3 seconds while the printer is not receiving data to change the operation mode to the online configuration mode.

Refer to 8. Online Configuration Mode

Printing (status LED is solid or flashing in green)

Press the FEED key while the printer is printing or receiving data to pause the printer.

- The status LED turns off, and the printer pauses.
- If the FEED key is pressed while the printer is printing, the printer will finish printing the current label and then stop.

Press the FEED key again to resume printing operation for the remaining labels in the print job.

Paused (status LED is off)

Press and hold the FEED key to change to the clear job mode.

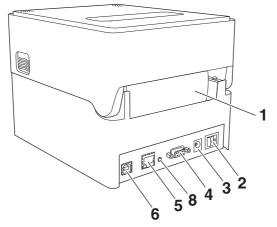
₹ Refer to 9. Clearing Jobs Stored in the Printer

Error/alarm has occurred (status LED flashes in red, green, or amber)

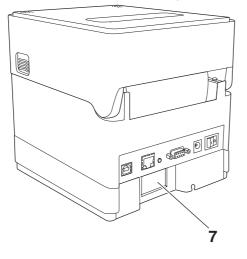
Press the FEED key to clear the error or alarm.

2.4 Rear of Printer

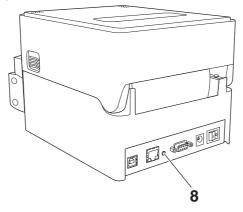
CL-E300X***NX (standard model)



CL-E300X***NS (model with AC adapter storage case)



CL-E300X***BC (integrated cutter model)

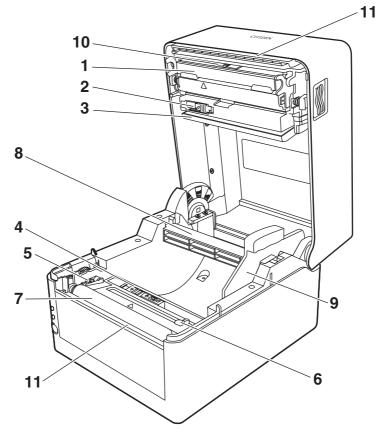


- External media feed port This port is used to feed media into the printer.
- 2. Power switch Turns the printer power supply on and off.
- 3. DC jack Connects to the included AC adapter.
- 4. D-SUB 9pin serial interface
- 5. Ethernet Interface
- 6. USB interface
- 7. AC port
- Ethernet panel button This button prints and initializes network settings.

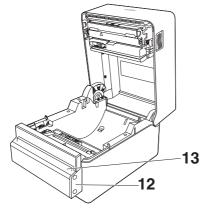
Do not connect a USB cable to the Ethernet interface. Doing so may damage connectors/interfaces.

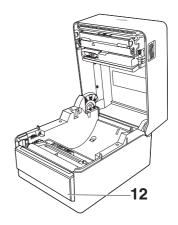
2.5 Inside of Printer

CL-E300X***NX (standard model)



CL-E300X***BC (integrated cutter model) CL-E300X***PC (separable cutter model)





- 1. Thermal head Prints characters and graphic data on paper (paper rolls).
- Upper sensor This sensor detects the media position.
- Media damper When using roll media, absorbs tension generated by media feed operations to prevent print errors.
- 4. Bottom sensor This sensor detects the media position.

Devices are equipped with lock mechanisms.

- 5. Fixed left-side media guide
- 6. Adjustable right-side media guide
- Platen roller This roller transports media.
- 8. Media shaft
- 9. Media shaft guide
- 10.Head balance adjustment slider
- 11.Manual cutter (Upper/Bottom)
- 12.Auto cutter
- 13.Media discharge port

3.1 Printing Preparation Process

The printer must be set up according to the following process before printing can be performed.

Refer to the description of each section for detailed information on each step of the process.

1. Unpack and check the package contents

| | Refer to 1.2 Unpacking |
|-----|---|
| 2. | Physical installation |
| 3. | Loading Media |
| | Refer to 3.2 Loading Paper |
| 4. | Adjusting Media Sensor Positions |
| | Refer to 3.3 Adjusting Media Sensor Positions |
| 5. | Connecting the AC Adapter |
| | Refer to 3.4 Connecting the AC Adapter |
| 6. | Connecting the Printer to a Host Computer |
| | Refer to 3.5 Connecting the Printer to a Host Computer |
| 7. | Operation Check |
| | Refer to 7.2 Test print mode |
| 8. | Installing the Printer Driver onto the Host Computer |
| | Refer to 3.6 Install the Printer Driver |
| 9. | Installing the Configuration Application onto the Host Computer |
| | Refer to 4.2 Obtaining the LabelPrinterUtility |
| 10. | Printing |

Perform a test print from the printer driver installed on the host computer.

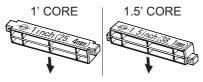
3.2 Loading Paper

1. Press the cover release buttons on both the right and left sides to open the top cover.



Note the following precautions when the top cover is open.

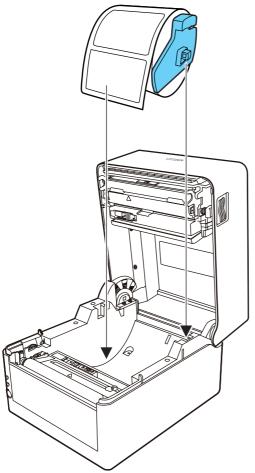
- Do not touch the thermal head.
- Do not touch the cutter blades.
- 2. Insert the media shaft through the core of the media roll and then install the media shaft guide.
 - The media shaft is designed to accommodate both 1-inch and 1.5-inch media roll cores by flipping it upside down. The media shaft has markings indicating which side supports the different core sizes. Select the media shaft orientation in accordance with the size of the media roll core.





- Use media rolls that have the print surface on the outer side. Do not use media rolls that have the print surface on the inner side. Labels may peel when such media roll is back-fed.
- If the media shaft is not installed correctly, the top cover or bottom of the printer will prevent media from feeding properly and cause paper jams.

- 3. Set the media so that the media shaft guide is on the right side of the media when looking at the front of the printer.
- 4. Press the media shaft guide onto the media roll so that the center of the media aligns with the center of the media shaft and then set the media into the printer.
 - 1. Assemble the media shaft and media shaft guide.
 - 2. Insert the media shaft through the core of the media roll and then set the assembly into the printer.
 - 3. Set the media in the printer and slide the media to the left from the perspective of looking at the front of the printer. Insert the media shaft guide into the paper at this position.

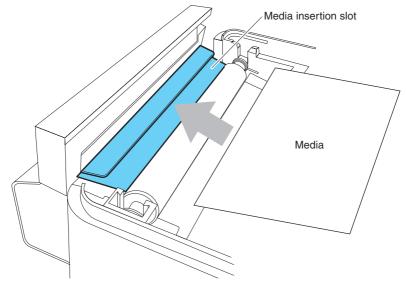






Too much abutment force by media shaft guide may cause improper feeding of media, which may negatively impact print quality.

5. If using an integrated cutter model (CL-E300X***BC), insert the media through the cutter slit.

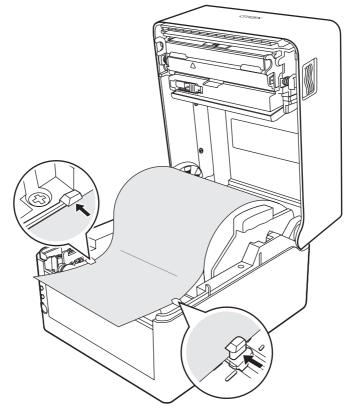




Insert media into the slit correctly. Failure to do so may result in improper feeding of media, which may cause paper jams.

6. Make sure the media is in abutment with the left media guide and then adjust the position of the right media guide in accordance with the media width.

From the front of the printer, set in front of the edge of media by approximately 10 mm.





Too much abutment force of the right movable paper guide may cause improper feeding of media, which may negatively impact print quality. Slide the head balance adjustment slider located near the thermal head along the media size scale (inch) so that the position of the notch in the slider matches the media width.

| media s | ize scale | Thermal | printhead |
|---------|----------------|------------------|-----------|
| | Head balance a | djustment slider | |
| | | 65″ | |
| | <u>A</u> | | |



Adjust the head pressure horizontal balance carefully so as not to damage the thermal head. Damaged thermal heads will result in poor printing, paper jams, and malfunction.

8. Close the top cover.



Press the push marks on left and right sides at the top of the top cover and ensure that the top cover hooks on each side lock securely.

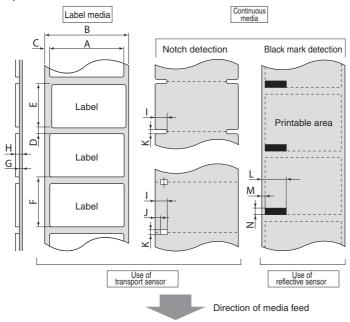
If the top cover is not securely locked, this may cause print errors, paper jams, and malfunction.

Compatible Paper Types



Continuous label media cannot be used with the model that has a cutter. Using such media may cause the label media adhesive to accumulate on the cutter blade, which could result in a failure.

Refer to the following specification table for information on the types of media compatible with this printer.



| | | Minimum value | | Maximum value | |
|---|--|---------------|--------|--|------------------------------------|
| | | mm | inch | mm | inch |
| Α | Label width | 21.50 | 0.83 | 118.00 | 4.65 |
| В | Backing paper width | 25.40 | 1.00 | 118.00 | 4.65 |
| С | Left edge position of label | 0 | 0 | 2.54 | 0.10 |
| D | Label gap length | 2.54 | 0.10 | 2,539.75 (CL-E300) 1,270.00 (CL-E303) | 99.99 (CL-E300) 50.00 (CL-E303) |
| E | Label length | 6.35 | 0.25 | 2,539.75 (CL-E300) 1,270.00 (CL-E303) | 99.99 (CL-E300) 50.00 (CL-E303) |
| F | Label pitch | 8.89 | 0.35 | 2,539.75 (CL-E300) 1,270.00 (CL-E303) | 99.99 (CL-E300) 50.00 (CL-E303) |
| G | Backing paper thickness | 0.06 | 0.0025 | 0.125 | 0.0049 |
| н | Total media thickness (standard / integrated cutter) | 0.06 | 0.0025 | 0.19 | 0.0075 |
| | Total media thickness (separable cutter) | 0.06 | 0.0025 | 0.15 | 0.0059 |
| Ι | Notch right edge position | 8.3 | 0.32 | 60.80 | 2.39 |
| J | Notch left edge position | 0 | 0 | 57.20 | 2.25 |
| К | Notch length | 2.54 | 0.10 | 17.80 | 0.70 |
| L | Black line right edge position | 15.00 | 0.59 | 66.50 | 2.62 |
| М | Black line left edge position | 0 | 0 | 51.50 | 2.02 |
| Ν | Black line length | 3.18 | 0.125 | 17.80 | 0.70 |

- Use the transmissive sensor when using media that has both gaps between labels and black lines.
- Use the transmissive sensor when using fanfold media.
- If the label pitch is 1 inch or less, configure an accurate label pitch with the [Small Media Adjustment] setting.
- Use carbon-based ink with an OD value of at least 1.5 to print black lines.
- The stop position and cut position may change depending on the width or type of media that is used.

Adjust these positions using the Paper Position setting.

3.3 Adjusting Media Sensor Positions

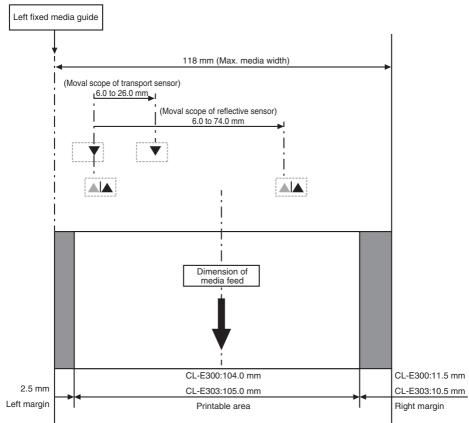
This section describes the procedure to adjust sensors when loading media. Transmissive and reflective sensors can be used for the media sensors.

The printer comes from the factory equipped with a transmissive sensor. The media sensor must be replaced with a reflective sensor for certain types of media.

Refer to 7.1 Sensor Adjustment Mode

Range of Paper Sensor Adjustment

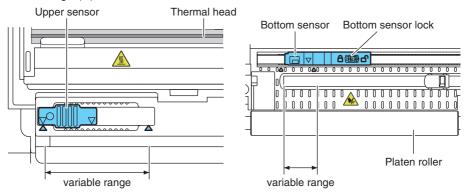
The following figure illustrates the range of media sensor adjustment.



Transmissive Sensor Adjustment

Adjust the position of the bottom sensor and upper sensor in accordance with the media width.

Move the bottom sensor and upper sensor by the same number of steps from the position of the triangle (\blacktriangle).



The range of bottom sensor and upper sensor horizontal adjustment is 10 steps between the triangle marks (\blacktriangle).

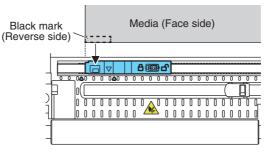
Use a pen or other object with a narrow tip to unlock the bottom sensor and then reposition it. Lock the sensor in place once the new position has been determined.



- The bottom sensor and upper sensor must be in alignment with each other.
- Attempting to move the sensor while still locked may damage it.

Reflective Sensor Adjustment

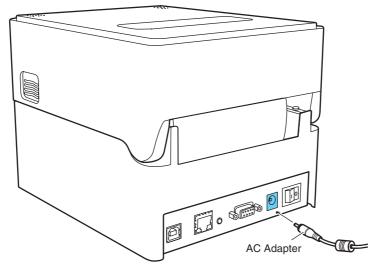
Set the bottom sensor at a position so that the center of the sensor window is in alignment with the center of the black line.



3.4 Connecting the AC Adapter

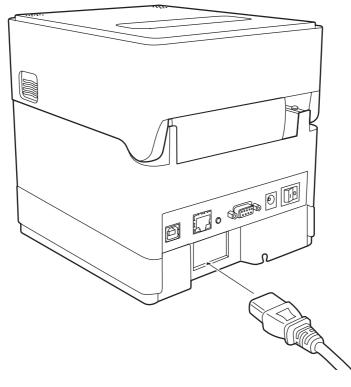


- Use the dedicated AC adapter designed for this device.
- Make sure the power switch on the printer is turned off before connecting the AC adapter.
- Insert the AC adapter connector completely into the DC jack.
- 1. Insert the DC plug on the output side of the AC adapter into the DC jack in the printer.
- 2. Insert the plug of the AC cord into an electrical outlet.



For a model with an AC adapter storage case

• Insert the plug of the AC cord into the AC port.



3.5 Connecting the Printer to a Host Computer

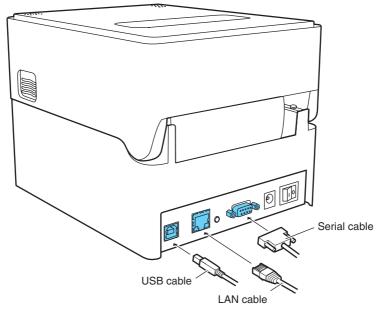
This printer is equipped with print data interfaces including a USB port, an Ethernet port, and a serial port.

Use the following procedure to connect this printer to a host computer.



Interface cables are required to connect the printer to a host computer.

- 1. Turn off the power to the printer and host computer.
- 2. Insert the cable into the appropriate interface port at the back of the printer. Tighten any locking screws to secure the cable.



3. Insert the other end of the cable into the appropriate interface port in the host computer.

Tighten any locking screws to secure the cable.

Using an Ethernet connection

Configure network settings as necessary.

Refer to 5. Configuring Ethernet Network Settings Using Network Seeker



- To check the current Ethernet settings, press the Ethernet panel button located next to the Ethernet interface to printout the settings.
- To initialize Ethernet settings, press and hold the Ethernet panel button for at least 3 seconds. Once the buzzer emits a short tone, press and hold the Ethernet panel button again within 3 seconds for at least 3 seconds.

3.6 Install the Printer Driver

Install the printer driver onto the host computer.

Printer drivers are available for download from the Citizen Systems support website. The latest documentation, drivers, utilities, and other support information are also available from this website.

http://www.citizen-systems.co.jp/support/download/printer/label/index_en.html

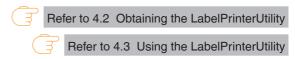
Once a printer driver has been downloaded, follow the on-screen instructions to install the driver.

4. Configuring Printer Settings Using the Specialized Utility

Use the LabelPrinterUtility configuration application to change printer settings.

| Easy Standard Advance | ed information 1 | Check/Uncheck All It | errs , | Printer Model: |
|--------------------------|----------------------|---|-----------------|-----------------------|
| Config Set | CONFIG SET 1 | × | | CL-E300/CL-E303 |
| Page Setup | | | | I/F: |
| Print Speed | 6 IPS 🔹 | Auto Side Shift | | Oriver Name |
| Print Darkness | T 10 | Sensor Select | REAR ADJ SENSOR | Citizen CL-E300 |
| Darkness Adjust | 0 | Media Sensor | SEE THROUGH | USBO |
| Print Method | E DT - | Top Form Sensor | OFF 👻 | C COM / VCOM: |
| Ribbon Winding Direction | OUTSIDE . | Top Form Length | INCH 👻 | COM1: <u>v</u> Detail |
| Continuous Media Length | 4.00 INCH | Small Media Adjustn | nent OFF 🔹 | C LPT: |
| Vertical Position | 0.00 INCH • | Small Media Length | 1.00 INCH • | LPT1: |
| Horizontal Shift | 0.00 INCH • | Symbol Set | PM • | C USB: |
| Vertical Image Shift | 0.00 INCH • | - | | USB001 |
| Vertical Image Shift | DOTS | _ | | C IP Address |
| | | | | 192 . 168 . 0 . 1 |
| System Setup | □ 1.5 V | | | Part Number: 9100 |
| Paper End Level | □ 3.00 V | Standby Timer | | Port toriber. |
| Error Reporting | ON PRINTING | 7 | | Send Configuration |
| | | 3 | | |
| Cover Open Sensor | C OFF | PNE Alarm | C OFF - | Import Export |
| Buzzer Select | | | T STD 💌 | Receive STANDARD |
| Metric/Inch | INCH • | Emulation Select | □ ZPL2 • • | Restore Defaults Exit |

Refer to the following sections for more information on obtaining and using LabelPrinterUtility.



4.1 List of Settings

This section describes the procedures to configure printer settings using the Label-PrinterUtility.

The following table lists the settings configurable with LabelPrinterUtility.

| Home menu | Sub menu | Default | Configurable range | Notes |
|------------|-------------------|-------------|---------------------|---------------------------------------|
| Page Setup | Print Speed | 6 IPS | CL-E300: 2 to 8 IPS | Sets the print speed |
| | | | CL-E303: 2 to 6 IPS | |
| | Print Darkness | 10 | 00 to 30 | Adjusts the print density |
| | Darkness Adjust | 00 | -10 to 10 | Fine adjustment of the density |
| | | | | command |
| | Continuous | 4.00 inch | CL-E300: | Sets the length of continuous media |
| | Media Length | 101.6 mm | (Datamax) | The lower row shows millimeter |
| | | | 0.25 to 99.99 inch | values when using the printer in |
| | | | 6.4 to 2539.7 mm | mm mode |
| | | | (Zebra) | |
| | | | 0.25 to 100.00 inch | |
| | | | 6.4 to 2540.0 mm | |
| | | | CL-E303: | |
| | | | 0.25 to 50.00 inch | |
| | | | 6.4 to 1,270.0 mm | |
| | Vertical Position | 0.00 inch | -1.00 to 1.00 inch | Adjusts the printing start position |
| | | 0.0 mm | -25.4 to 25.4 mm | |
| | Horizontal Shift | 0.00 inch | -1.00 to 1.00 inch | Adjusts the horizontal image posi- |
| | | 0.0 mm | -25.4 to 25.4 mm | tion |
| | Vertical Image | (Datamax) | 0.00 to 32.00 inch | Adjusts the start position for creat- |
| | | 0.00 inch | 0.0 to 812.8 mm | ing images |
| | | 0.0 mm | | |
| | | (Zebra) | -120 to 120 dots | |
| | | 000 dots | | |
| | Auto Side Shift | 0 dots | 0 to 15 dots | Shifts the horizontal print position |
| | | | | by the specified number of dots |
| | | | | for each sheet/label. This is useful |
| | | | | when significant load is placed on |
| | | | | the portion of the thermal head, |
| | | | | such as when printing vertical |
| | | | | borders. |
| | Media Sensor | See Through | See Through | Selects the type of label sensor |
| | | | Reflect | type |
| | | | None | |
| | Small Media | Off | On | Setting for small label support |
| | Adjustment | | Off | |
| | Small Media | 1.00 inch | 0.25 to 1.00 inch | Sets the length for small label |
| | Length | 25.4 mm | 6.4 to 25.4 mm | media |
| | Symbol Set | PM | 50 options | Sets the character set |

| | Home menu | Sub menu | Default | Configurable range | Notes |
|--|--------------|------------------|---------------|--------------------|---------------------------------------|
| Paper End Level 3.00 V 0.01 V to 3.30 V Sets the paper end level Error Reporting On Printing Error reporting setting Buzzer Select Exec/Err Exec/Err Sets the conditions at which the buzzer is triggered Max Media Inch Inch Sets the unit of measure mm Max Media 10.00 inch CL-E300: Sets the maximum length of label media Length 254.0 mm CL-E300: Sets the maximum length of label media 0.25 to 100.00 inch 6.4 to 2539.7 mm CL-E303: None 1.000 inch 6.4 to 2540.0 mm CL-E303: None Settings Lock Off On Prevents changes via setting commands Keyboard Lock Off On Prevents changes via setting commands Media Power Up Off On Sets the media length measuring function when Datamax® Media Power Up Off On Sets the media length measuring models) Control Code STD STD Changes the command mode for ALT Media Power Up Off On Sets the media length measuring function mode is | System Setup | 1 | | | |
| Error Reporting On Printing On Printing Error reporting setting Buzzer Select Exec/Err Exec/Err Sets the conditions at which the buzzer is triggered Metric/Inch Inch Error Sets the unit of measure Max Media 10.00 inch CL-E300: Sets the unit of measure Length 254 to 99.99 inch 6.4 to 2539.7 mm Sets the maximum length of label 0.25 to 100.00 inch 6.4 to 2539.7 mm Sets the maximum length of label media Settings Lock Off On Prevents changes via setting com- mands Mands Keyboard Lock Off On Prevents changes via setting com- off Mands Control Code STD STD Changes the command mode for DMX mode (only when Datamax®) and is selected) Media Power Up Off On Prevents changes via Cloom- mands (only when Zebra@ emulation mode is selected) Cl Lock Off On Prevents changes via Cloom- mands (only when Zebra@ emulation mode is selected) on international models) Cl Lock Off On Prevents changes via Cloom- mands (only when Zebra@ emulation mode is selected) | | Paper End Level | 3.00 V | 0.01 V to 3.30 V | Sets the paper end level |
| Immediate Immediate Buzzer Select Exeo/Err Exeo/Err Sets the conditions at which the All Max Error Key Sets the unit of measure Max Media 10.00 inch Sets the unit of measure Length 10.00 inch Sets the unit of measure Max Media 10.00 inch Sets the unit of measure Length 10.00 inch Sets the unit of measure Classon Classon Sets the unit of measure Max Media 10.00 inch Sets the unit of measure Length 254.0 mm Sets 10.2500: Control Code Control Code Off Keyboard Lock Off On Settings Lock Off On Control Code STD All'T ALT-2 emulation is selected? Media Power Up Off On Off On Sets the media length measuring function when the power is turned on (only when Zebra@ emulation is selected on international models) Cl Lock Off On Prevents changes via Cl commands (only when Zebra@ emulation is selected?) | | | (| <u>.</u> | |
| Buzzer Select Exec/Err All Exec/Err All Sets the conditions at which the buzzer is triggered Metric/Inch Inch Inch Sets the unit of measure Max Media 10.00 inch CL-E300: Sets the maximum length of label media Length 254.0 mm CL-2303: media 0.25 to 99.99 inch 6.4 to 2539.7 mm (Zebra) Sets the maximum length of label media media Settings Lock Off On Prevents changes via setting com- mands Settings Lock Off On Prevents changes via key operation Off Control Code STD STD Changes the command mode for ALT-2 Media Power Up Off On Sets the media length measuring function when the power is turned on (only when Zebra@ emulation mode is selected) CI Lock Off On Prevents changes via CI com- mands (only when Zebra@ emulation mode is selected on interna- tional models) CI Lock Off On Prevents changes via CI com- mands (only when Zebra@ emulation mode is selected on interna- tional models) Emulation Select DM4 Datamax@ LiesrM Datamax@ LiesrM DPP DM4 Datamax@ 100 MI Datamax@ Prodig | | 1 | | | |
| All buzzer is triggered Metric/Inch Inch Inch Max Media 10.00 inch CL-E300: Length 254.0 mm CL-E300: 0.25 to 99.99 inch 6.4 to 2539.7 mm 0.25 to 10.00 inch CL-E300: 0.25 to 10.00 inch 6.4 to 2539.7 mm CL=5303: 0.05 to 10.00 inch 0.25 to 10.00 inch 6.4 to 2540.0 mm CL=3303: 1.00 to 50.00 inch 2.5 4 to 1.270.0 mm 25.4 to 1.270.0 mm Settings Lock Off On Prevents changes via setting commands New poperation Control Code STD STD Media Power Up Off On Off On Sets the media length measuring function when the power is turned on (only when Zebra® emulation mode is selected) Media Power Up Off On CI Lock Off On | | Buzzer Select | Exec/Err | | Sets the conditions at which the |
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| Key None Key None Metric/Inch Inch Inch Max Media Length 10.00 inch CL-E300: (Datamax) Sets the unit of measure media 0.25 to 99.99 inch 6.4 to 2539.7 mm (Zebra) Sets the maximum length of label media 0.25 to 100.00 inch 6.4 to 2540.0 mm Sets the maximum length of label media 0.25 to 100.00 inch 6.4 to 2540.0 mm CL-E303: 1.00 to 55.00 inch 1.00 to 50.00 inch 2.54 to 1,270.0 mm Prevents changes via setting com- mands Settings Lock Off On Prevents changes via setting com- mands Keyboard Lock Off On Prevents changes via setting com- mands Keyboard Lock Off On Prevents changes via leapt measure emulation is selected.0 Media Power Up Off On Sets the media length measuring function when the power is turned on (only when Zebra® emulation models) Cl Lock Off On Prevents changes via Cl com- mads (only when Zebra® emulation models) Emulation Select DM4 (Datamax®) ZP12 (Zebra®) DM4 Datamax®/Zebra® compatibility selection ZP12 DM4 DM4 Datamax@ 400 DM4 Datama | | | | | Suzzon lo inggorou |
| Metric/Inch Inch Inch Sets the unit of measure Max Media Length 10.00 inch CL-E300: (Datamax) Sets the maximum length of label media 0.25 to 99.99 inch 6.4 to 2539.7 mm (Zebra) Sets the maximum length of label media 0.25 to 99.99 inch 6.4 to 2539.7 mm (Zebra) Sets the maximum length of label media Settings Lock Off On Prevents changes via setting com- mands Keyboard Lock Off On Prevents changes via setting com- mands Control Code STD STD Changes the command mode for ALT Media Power Up Off On Sets the media length measuring function when the power is turned on (only when Zebra@ emulation mode is selected) Cl Lock Off On Prevents changes via Cl com- mands (only when Zebra@ emulation mode is selected on interna- tional models) Cl Lock Off On Prevents changes via Cl com- mands (only when Zebra@ emula- tion mode is selected on interna- tional models) Emulation Select DM4 (Datamax@) ZPI2 (Zebra@) DM4 DPP DM4 zbatamax@ IClassTM DPP Datamax@ Prodigy Plus@ ZPI2 Zebra@ Pru2 @ Emulation Auto Detect Full Auto On Sets the emulation sensing functi | | | | | |
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| mm mm Max Media Length 10.00 inch 254.0 mm CL-E300: (Datamax) 0.25 to 99.99 inch 6.4 to 2539.7 mm (Zebra) Sets the maximum length of label media 0.25 to 100.00 inch 6.4 to 2539.7 mm (Zebra) Sets the maximum length of label media 0.25 to 100.00 inch 6.4 to 2540.0 mm CL-E303: 1.00 to 50.00 inch 25.4 to 1,270.0 mm Prevents changes via setting com- mands Settings Lock Off On Prevents changes via key operation Off Keyboard Lock Off On Prevents changes via key operation Off Control Code STD STD Changes the command mode for ALT Media Power Up Off On Sets the media length measuring function when the power is turned on (only when Zebra@ emulation mode is selected on international models) Cl Lock Off On Prevents changes via Cl com- mands (only when Zebra@ emulation mode is selected on interna- tional models) Emulation Select DM4 Datamax@/Zebra@ compatibility selection ZPI2 (Zebra@) DPP DM4 Datamax@ HO DATamax@ Prodigy Plus@ ZPI2 Zebra@ Prodigy Plus@ | | Motrie/Inch | Inch | | Sata the unit of measure |
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| 0.25 to 99.99 inch 6.4 to 2539.7 mm (Zebra) 0.25 to 90.99 inch 6.4 to 2539.7 mm (Zebra) 0.25 to 100.00 inch 6.4 to 2540.0 mm CL-E303: 1.00 to 50.00 inch 25.4 to 1,270.0 mm 0.00 Settings Lock Off On Prevents changes via setting com- mands 0.01 Keyboard Lock Off On Control Code STD STD ALT-2 emulation is selected) Media Power Up Off On CI Lock Off On CI Lock Off On CI Lock Off On Emulation Select DM4 D212 (Zebra®) DM4 DPP DM4 Datamax® 400 ZP12 ZP12 Emulation Auto Full Auto On Sets the emulation sensing function (international models) | | | | | u u u u u u u u u u u u u u u u u u u |
| 6.4 to 2539.7 mm (Zebra) 6.4 to 2539.7 mm (Zebra) 0.25 to 100.00 inch 6.4 to 2540.0 mm CL-E303: 1.00 to 50.00 inch 25.4 to 1,270.0 mm Settings Lock Off On Off On Prevents changes via setting com- mands Keyboard Lock Off On Off On Prevents changes via key operation Off Control Code STD STD ALT-2 DMX mode (only when Datamax® emulation is selected) Media Power Up Off On Off On Sets the media length measuring function when the power is turned on (only when Zebra® emulation mode is selected on international models) Cl Lock Off On Cl Lock Off On DM4 DtAtamax®/Zebra® compatibility selection ZPI2 (Zebra®) ZPI2 ZPI2 DM4 DM4 DtAtamax® Prodigy Plus@ ZPI2 Zebra@ ZPL2 @ ZPI2 Zebra@ ZPL2 @ Emulation Auto Detect Full Auto On Off On Sets the emulation sensing function (international models only) | | Length | 254.0 mm | · / | media |
| (Zebra) 0.25 to 100.00 inch 0.25 to 100.00 inch 6.4 to 2540.0 mm CL-E303: 1.00 to 50.00 inch 25.4 to 1,270.0 mm 25.4 to 1,270.0 mm Settings Lock Off On Meyboard Lock Off On Control Code STD STD ALT DMX mode (only when Datamax®) ALT-2 emulation is selected) Media Power Up Off On Off On Sets the media length measuring function when the power is turned on (only when Zebra® emulation mode is selected) Cl Lock Off On Cl Lock Off On DM4 Datamax®/zebra@ compatibility selection DVI ZP12 (Zebra®) DPP ZP12 DM4 DAtamax® 400 ZP12 DMI Datamax® Prodigy Plus® ZP12 Zebra@ ZP12 @ Emulation Auto Full Auto On Sets the emulation sensing function (international models only) | | | | | |
| 0.25 to 100.00 inch 6.4 to 2540.0 mm CL-E303: 1.00 to 50.00 inch 25.4 to 1,270.0 mm Settings Lock Off On Prevents changes via setting commands Keyboard Lock Off Off On Prevents changes via key operation Off On Control Code STD ALT-2 emulation is selected) Media Power Up Off On Sets the media length measuring function when the power is turned on (only when Zebra® emulation models) Cl Lock Off Off On DM4 Datamax@/Zebra® compatibility selection ZP12 (Zebra®) DPP ZP12 (Zebra®) DPP DM4 Datamax@ 400 DPP Datamax@ Prodigy Plus@ ZP12 @ Emulation Auto Full Auto On Sets the emulation sensing function (international models only) | | | | | |
| 6.4 to 2540.0 mm CL-E303: 1.00 to 50.00 inch 25.4 to 1,270.0 mm Settings Lock Off On Prevents changes via setting com- mands Keyboard Lock Off On Prevents changes via key operation Off Control Code STD STD Changes the command mode for ALT Media Power Up Off On Sets the media length measuring function when the power is turned on (only when Zebra® emulation mode is selected) CI Lock Off On Prevents changes via CI com- mands (only when Zebra® emulation models) CI Lock Off On Prevents changes via CI com- mands (only when Zebra® emula- tion al models) Emulation Select DM4 (Datamax®) ZPI2 (Zebra®) DM4 Datamax®/Zebra® compatibility selection DPP DM4 Datamax® 400 ZPI2 DPP Datamax® 400 ZPI2 Zebra® ZPL2 @ DPP Datamax® Prodigy Plus® ZPI2 Zebra® ZPL2 @ Emulation Auto Detect Full Auto On Sets the emulation sensing function (international models only) | | | | () | |
| CL-E303: 1.00 to 50.00 inch 25.4 to 1,270.0 mm Settings Lock Off On Off Prevents changes via setting com- mands Keyboard Lock Off On Off Prevents changes via key operation Control Code STD STD Changes the command mode for DMX mode (only when Datamax®) Media Power Up Off On Sets the media length measuring function when the power is turned on (only when Zebra® emulation models) Cl Lock Off On Sets the media length measuring function when the power is turned on (only when Zebra® emulation models) Cl Lock Off On Prevents changes via Cl com- mands (only when Zebra® emula- tion mode is selected on interna- tional models) Emulation Select DM4 DM4 Datamax®/Zebra® compatibility selection ZP12 DM4 DH4 Datamax® 400 ZP12 DPP Datamax® Prodigy Plus® ZP12 Zebra® ZPL2 @ Emulation Auto Detect Full Auto On Sets the emulation sensing function (international models only) | | | | | |
| Image: Settings Lock Off On Prevents changes via setting commands Keyboard Lock Off On Prevents changes via setting commands Keyboard Lock Off On Prevents changes via key operation Control Code STD STD Changes the command mode for ALT DMX mode (only when Datamax® emulation is selected) Media Power Up Off On Sets the media length measuring function when the power is turned on (only when Zebra® emulation mode is selected on international models) Cl Lock Off On Prevents changes via Cl commande selected on international models) Emulation Select DM4 DM4 Datamax®/Zebra® compatibility selection ZPI2 (Zebra®) DPP DM4 Datamax® 400 DPP Datamax® 400 ZPI2 Zebra® ZPI2 @ Emulation Auto Full Auto On Sets the emulation sensing function (international models only) | | | | 6.4 to 2540.0 mm | |
| 25.4 to 1,270.0 mm Settings Lock Off On Prevents changes via setting commands Keyboard Lock Off On Prevents changes via key operation Off On Off On Control Code STD STD Changes the command mode for ALT Media Power Up Off On Sets the media length measuring function when the power is turned on (only when Zebra® emulation mode is selected) Cl Lock Off On Prevents changes via Cl commodels Cl Lock Off On Prevents changes via Cl commodels Emulation Select DM4 DM4 Datamax®/Zebra® compatibility selection ZPI2 (Zebra®) DPP DM4 Datamax® /LoasTM DPP Datamax® /LoasTM DPP Datamax® Prodigy Plus® ZPI2 Zebra® ZPL2 @ Emulation Auto Full Auto Detect Full Auto On Sets the emulation sensing function (international models only) | | | | CL-E303: | |
| Settings Lock Off On Off Prevents changes via setting com- mands Keyboard Lock Off On Off Prevents changes via key operation Control Code STD STD Changes the command mode for ALT Media Power Up Off On Sets the media length measuring function when the power is turned on (only when Zebra® emulation mode is selected on international models) CI Lock Off On Prevents changes via CI com- mands (only when Zebra® emula- tion mode is selected on interna- tional models) Emulation Select DM4 (Datamax®) ZPI2 (Zebra®) DM4 DMI Datamax@/Zebra® compatibility selection Emulation Auto Detect Full Auto On Sets the emulation sensing function (international models only) | | | | 1.00 to 50.00 inch | |
| Off mands Keyboard Lock Off On Off Prevents changes via key operation Control Code STD STD Changes the command mode for ALT Media Power Up Off On Sets the media length measuring function when the power is turned on (only when Zebra® emulation mode is selected on international models) CI Lock Off On Prevents changes via CI com- mands (only when Zebra® emula- tion mode is selected on interna- tional models) Emulation Select DM4 Datamax®/Zebra® compatibility selection ZPI2 (Zebra®) DPP DM4 Datamax® 400 DMI Datamax® 400 ZPI2 Emulation Auto Detect Full Auto On Sets the emulation sensing function (international models only) | | | | 25.4 to 1,270.0 mm | |
| Keyboard Lock Off On Off Prevents changes via key operation Control Code STD STD Changes the command mode for DMX mode (only when Datamax® emulation is selected) Media Power Up Off On Sets the media length measuring function when the power is turned on (only when Zebra® emulation mode is selected on international models) CI Lock Off On Prevents changes via CI com- mands (only when Zebra® emula- tion mode is selected on interna- tional models) Emulation Select DM4 (Datamax®) DM4 DMI Datamax®/Zebra® compatibility selection ZPI2 (Zebra®) DPP DM4 Datamax® IClassTM DPP Datamax® Prodigy Plus® ZPI2 Zebra@ ZPL2 @ Emulation Auto Detect Full Auto On Sets the emulation sensing function (international models only) | | Settings Lock | Off | On | Prevents changes via setting com- |
| Off Off Control Code STD STD Changes the command mode for DMX mode (only when Datamax® emulation is selected) Media Power Up Off On Sets the media length measuring function when the power is turned on (only when Zebra® emulation mode is selected on international models) CI Lock Off On Prevents changes via CI com- mands (only when Zebra® emula- tion mode is selected on interna- tional models) Emulation Select DM4 Datamax®/Zebra® compatibility selection ZPI2 (Zebra®) DPP DM4 Datamax® 400 DMI Datamax® IClassTM DPP Datamax® Prodigy Plus® ZPI2 Zebra@ ZPL2 @ Emulation Auto Detect Full Auto On Sets the emulation sensing function (international models only) | | | | Off | mands |
| Off Off Control Code STD STD Changes the command mode for ALT Media Power Up Off On Sets the media length measuring function when the power is turned on (only when Zebra® emulation mode is selected on international models) CI Lock Off On Prevents changes via CI com- mands (only when Zebra® emula- tion mode is selected on interna- tional models) Emulation Select DM4 DM4 Datamax®/Zebra® compatibility selection ZPI2 (Zebra®) DPP DM4 Datamax® 400 DMI Datamax® IClassTM DPP Datamax® Prodigy Plus® ZPI2 Zebra@ ZPL2 @ Emulation Auto Detect Full Auto On Sets the emulation sensing function (international models only) | | Keyboard Lock | Off | On | Prevents changes via key operation |
| ALT DMX mode (only when Datamax® emulation is selected) Media Power Up Off On Sets the media length measuring function when the power is turned on (only when Zebra® emulation mode is selected on international models) CI Lock Off On Prevents changes via CI commode is selected on international models) Emulation Select DM4 DM4 Datamax®/Zebra® compatibility selection ZPI2 (Zebra®) DM4 DM4 Datamax® 400 DMI Datamax® 1ClassTM ZPI2 Zebra® ZPI2 @ Emulation Auto Full Auto On Sets the emulation sensing function (international models only) | | | | Off | |
| ALT-2 emulation is selected) Media Power Up Off On Sets the media length measuring function when the power is turned on (only when Zebra® emulation mode is selected on international models) CI Lock Off On Prevents changes via CI commode is selected on international models) CI Lock Off On Prevents changes via CI commode is selected on international models) Emulation Select DM4 DM4 Datamax®/Zebra® compatibility selection ZPI2 (Zebra®) DMI selection DMI Datamax® 400 ZPI2 Zebra® Prodigy Plus® ZPI2 Zebra® ZPL2 ® Emulation sensing function (international models only) | | Control Code | STD | STD | Changes the command mode for |
| ALT-2 emulation is selected) Media Power Up Off On Sets the media length measuring function when the power is turned on (only when Zebra® emulation mode is selected on international models) CI Lock Off On Prevents changes via CI commode is selected on international models) CI Lock Off On Prevents changes via CI commode is selected on international models) Emulation Select DM4 DM4 Datamax®/Zebra® compatibility selection ZPI2 (Zebra®) DMI selection DMI Datamax® 400 ZPI2 Zebra® Prodigy Plus® ZPI2 Zebra® ZPL2 ® Emulation sensing function (international models only) | | | | ALT | DMX mode (only when Datamax® |
| Media Power Up Off On Sets the media length measuring function when the power is turned on (only when Zebra® emulation mode is selected on international models) CI Lock Off On Prevents changes via CI commands (only when Zebra® emulation mode is selected on international models) CI Lock Off On Prevents changes via CI commands (only when Zebra® emulation mode is selected on international models) Emulation Select DM4 Datamax®/Zebra® compatibility selection ZPI2 (Zebra®) DMI selection ZPI2 DMI Datamax® 400 ZPI2 DMI Datamax® IClassTM DPP Datamax® Prodigy Plus® ZPI2 Zebra® ZPI2 @ Emulation Auto Full Auto On Sets the emulation sensing function (international models only) | | | | ALT-2 | |
| CI Lock Off function when the power is turned on (only when Zebra® emulation mode is selected on international models) CI Lock Off On Prevents changes via CI commodels) CI Lock Off On Prevents changes via CI commodels) Emulation Select DM4 Datamax®/Zebra® compatibility ZPI2 (Zebra®) DMI selection ZPI2 (Zebra®) DMI Datamax® IClassTM DPP Datamax® Prodigy Plus® ZPI2 Zebra® ZPL2 ® Emulation Auto Full Auto On Detect Full Auto On | | Media Power Up | Off | On | <u> </u> |
| CI Lock Off On Prevents changes via CI commodels) CI Lock Off On Prevents changes via CI commodels) Emulation Select DM4 Off mands (only when Zebra® emulation models) Emulation Select DM4 Datamax®/Zebra® compatibility selection ZPI2 (Zebra®) DPP DM4 Datamax® 400 DPP DM4 Datamax® IClassTM DPP Datamax® Prodigy Plus® ZPI2 Zebra® ZPL2 ® Emulation Auto Full Auto On Sets the emulation sensing function (international models only) | | | - | Off | 5 5 |
| CI Lock Off On Prevents changes via CI commands (only when Zebra® emulation mode is selected on international models) Emulation Select DM4 Datamax®/Zebra® compatibility selection ZPI2 (Zebra®) DPP DM4 Datamax® 400 ZPI2 (Zebra®) DPP DMI Datamax® IClassTM DPP Datamax® Prodigy Plus® ZPI2 Zebra® ZPL2 ® Emulation Auto Full Auto On Detect Off On | | | | | · · |
| CI Lock Off On Prevents changes via CI commands (only when Zebra® emulation models) Emulation Select DM4 Datamax®/Zebra® compatibility selection ZPI2 (Zebra®) DM4 Datamax®/Zebra® compatibility selection ZPI2 (Zebra®) DPP DM4 Datamax® IClassTM DPP Datamax® IClassTM DPP Datamax® IClassTM ZPI2 Zebra® ZPL2 @ Emulation Auto Emulation Auto Full Auto On Off Off Sets the emulation sensing function (international models only) | | | | | |
| CI Lock Off On Prevents changes via CI commands (only when Zebra® emulation mode is selected on international models) Emulation Select DM4 Datamax®/Zebra® compatibility selection ZPI2 (Zebra®) DMI selection ZPI2 (Zebra®) DPP DM4 Datamax® IClassTM DPP DMI Datamax® IClassTM DPP Datamax® Prodigy Plus® ZPI2 Zebra® ZPI2 2@ Emulation Auto Full Auto Off Off Sets the emulation sensing function (international models only) | | | | | |
| Emulation Select DM4 DM4 Datamax®/Zebra® compatibility Emulation Select DM4 DM4 Datamax®/Zebra® compatibility ZPI2 (Zebra®) DMI selection ZPI2 (Zebra®) DPP DMI Datamax® 400 ZPI2 DMI Datamax® IClassTM DPP Datamax® Prodigy Plus® ZPI2 Zebra® ZPI2 @ Emulation Auto Full Auto On Sets the emulation sensing function (international models only) | | CLLock | Off | On | |
| Emulation Select DM4 DM4 Datamax®/Zebra® compatibility ZPI2 (Zebra®) DMI selection ZPI2 (Zebra®) DPP DMI Datamax® 400 ZPI2 DMI Datamax® IClassTM DPP Datamax® Prodigy Plus® ZPI2 Zebra® ZPI2 @ Emulation Auto Full Auto Detect Off | | OILOCK | | - | 5 |
| Emulation Select DM4 DM4 Datamax®/Zebra® compatibility ZPI2 (Zebra®) DMI selection ZPI2 (Zebra®) DPP DMI Datamax® IClassTM DPP Datamax® Prodigy Plus® ZPI2 Zebra® ZPI2 @ Emulation Auto Full Auto On Detect Off Gets only | | | | | |
| Emulation Select DM4 DM4 Datamax®/Zebra® compatibility selection ZPI2 (Zebra®) DMI DM4 Datamax® 400 ZPI2 DPP DM4 Datamax® IClassTM DPP Datamax® Prodigy Plus® ZPI2 Zebra® ZPI2 2 Emulation Auto Full Auto On Detect Off Sets the emulation sensing function (international models only) | | | | | |
| (Datamax®) DMI selection ZPI2 (Zebra®) DPP DMI Datamax® 400 ZPI2 DMI Datamax® IClassTM DPP Datamax® IClassTM DPP Datamax® Prodigy Plus® ZPI2 Zebra® ZPL2 ® Emulation Auto Full Auto On Detect Off Sets the emulation sensing function (international models only) | | Emulation Octors | | DM4 | |
| ZPI2 (Zebra®) DPP DM4 Datamax® 400 ZPI2 DMI Datamax® IClassTM DPP Datamax® Prodigy Plus® ZPI2 Zebra® ZPI2 @ ZPI2 Zebra® ZPL2 ® Emulation Auto Full Auto On Detect Off (international models only) | | Emulation Select | | | |
| ZPI2 DMI Datamax® IClassTM DPP Datamax® Prodigy Plus® ZPI2 Zebra® ZPL2 ® Emulation Auto Full Auto Detect Off | | | · / | | |
| Emulation Auto Full Auto On Sets the emulation sensing function (international models only) | | | ZPI2 (Zebra®) | | |
| ZPI2 Zebra® ZPL2 ® Emulation Auto Full Auto On Sets the emulation sensing function (international models only) Detect Off (international models only) | | | | ZPI2 | |
| Emulation Auto Full Auto On Sets the emulation sensing function (international models only) | | | | | 0, |
| Detect Off (international models only) | | | | | |
| | | Emulation Auto | Full Auto | On | Sets the emulation sensing function |
| Full Auto | | Detect | | Off | (international models only) |
| | | | | Full Auto | |

| Home menu | Sub menu | Default | Configurable range | Notes |
|-----------------|-----------------|----------|-----------------------|---------------------------------------|
| After Print - 1 | AutoConfigure | On | On | Enables/disables the auto configu- |
| | | | Off | ration of optional equipment. |
| | | | | On - Enables auto configuration |
| | | | | (when a cutter is installed, mode is |
| | | | | automatically configured regardless |
| | | | | of the Function Select setting) |
| | | | | Off - Disables auto configuration. |
| | | | | Turn this setting Off and select op- |
| | | | | eration with Function Select when |
| | | | | you do not want to use the cutter if |
| | | | | installed. |
| | Function Select | Tear | Off | Selects the operation mode when |
| | | | Tear | AutoConfigure is Off. Each option |
| | | | Cut On(only valid for | has a specified media stop position. |
| | | | models with cutters) | Enables operation of the applicable |
| | | | | device when selected. |
| | Cutter Action | Backfeed | Backfeed | Cutter action setting |
| | *Only valid for | | Through | Prints only when AutoConfigure for |
| | models with | | | a model with a cutter is On or when |
| | cutters | | | [Backfeed] is selected for the Func- |
| | | | | tion Select setting. |
| | | | | The [Backfeed] option performs a |
| | | | | back-feed after each cut operation. |
| | | | | The [Through] option continues the |
| | | | | print operation at the trailing edge |
| | | | | of each sheet/label from the first |
| | | | | sheet/label to the n-1 sheet/label |
| | | | | when the number of copies is set |
| | | | | to n. A back-feed operation is then |
| | | | | performed at the trailing edge of the |
| | | | | last sheet/label or when printing a |
| | | | | single sheet/label. |

| Home menu | Sub menu | Default | Configurable range | Notes |
|-----------------|-----------------|-------------|--------------------|-------------------------------------|
| After Print - 2 | Paper Position | 0.00 inch | STD | Adjusts the stop position. |
| | | 0.00 mm | 0.00 to 2.00 inch | This setting is dependent on the |
| | | | 0.0 to 50.8 mm | Metric/Inch setting. |
| | | | Cut/Tear | Each device has an initial stop |
| | | | -1.00 to 1.00 inch | position as configured with the |
| | | | -25.4 to 25.4 mm | settings previously described. This |
| | | | | setting sets a relative value from |
| | | | | these other settings. |
| | Feed Key Action | Feeds Media | Repeat Last Set | Changes the operation of the |
| | | | Repeat Last One | FEED key |
| | | | Feeds Media | Repeat Last Set |
| | | | | Reprints a set of labels. |
| | | | | This setting is ignored when Ze- |
| | | | | bra®* emulation mode is selected. |
| | | | | Repeat Last One |
| | | | | Reprints the last page only. |
| | | | | Prints only 1 sheet/label from the |
| | | | | current number when using counts. |
| | | | | Feeds Media |
| | | | | Functions as the FEED key. |
| | | | | Disables reprinting. |

| Home menu | Sub menu | Default | Configurable range | Notes |
|---------------------|----------------------|--|--|---|
| Interface - 1 *1 | RS-232C Baud Rate | 9600 | 115200 57600 38400 19200 | Sets the baud rate of the serial interface |
| | | | 9600 4800 2400 | |
| | RS-232C Parity | None | None Odd Even | Sets the communication parity of the serial interface |
| | RS-232C Length | 8 bits | 8 bits 7 bits | Sets the data length for the serial interface |
| | RS-232C Stop bit | 1 bit | 1 bit 2 bits | Sets the stop bits for the serial interface |
| | RS-232C X-ON | Yes | Yes No | Enables/disables X-ON flow control for the serial interface |
| | USB Device Class | Printer | Printer VCOM | Sets the USB device class |
| | USB VCOM Protocol | Auto | Auto DTR X-ON | Sets the USB VCOM protocol (flow control) |
| | IPv4 Address | 169.254.001.010 | 000.000.000.000 to 255.255.255.255 | Sets the IPv4 network address |
| | IPv4 Subnet Mask | 255.255.000.000 | 000.000.000.000 to 255.255.255.255 | Sets the IPv4 subnet mask |
| | IPv4 Gateway | 000.000.000.000 | 000.000.000.000 to 255.255.255.255 | Sets the IPv4 gateway |
| | IPv4 DHCP | On | On Off | Enables/disables IPv4 DHCP |
| | Host Name | CL-E300: CL-E321/300 Print Server CL-E303: CL-E331/303 Print Server | Any length from 0 to 31 characters long using single-byte let- ters (uppercase and lowercase), numbers, and symbols | Name to assign to the device to identify the printer |
| | Port Number | 9100 | 1024 - 65535 | Print port number |

| Home menu | Sub menu | Default | Configurable range | Notes |
|---------------------|-------------------------|-------------------------------------|---|--|
| Interface - 2 *1 | Timeout | 60 | 0 - 300 | Timeout time (in seconds) for con- nection with host machine When the set number of sec- onds elapses without data being received from the host in the state in which a session is established, a timeout occurs and the session is disconnected. If this is set to 0, there will be no timeout. |
| | Action at timeout | Close all | Close all Move next | Pending session processing when timeout Sets whether to disconnect all other sessions or to enable send- ing and receiving when there are two or more sessions established and a timeout occurs for the ses- sion that was established first |
| | Transmits buffered data | Disable | Disable Enable | Transmission data processing when host machine not connected |
| | IPv6 | On | On Off | Enables/disables IPv6 |
| | Fixed IPv6 Address | On | On Off | Enables/disables IPv6 static net- work address |
| | IPv6 Address | 0.0.0.0.0.0.0. | 0.0.0.0.0.0.0. 0.0.0.0.0.0.0 - 255.255.255.255.255. 255.255.255.255.25 | Sets a IPv6 network address Example: If the network address you wish to set is 2001:0db8:0000: 0123:4567:89ab:cdef:feed, specify the value for each network address field in decimal notation separated by periods as shown below. 32.1.13.184.0.0.1.35.69.103.137.1 71.205.239.254.237 |
| | IPv6 Prefix Length | 64 | 1 - 128 | IPv6 prefix length setting (in bits) |
| | IPv6 Gateway | 0.0.0.0.0.0.0.0. 0.0.0.0.0.0.0.0 | 0.0.0.0.0.0.0. 0.0.0.0.0.0.0 - 255.255.255.255.255. 255.255.255.255.25 | IPv6 gateway address setting For how to specify an address, refer to the Notes column in "IPv6 Address". |

*1 Contains menus of option interface settings that can be configured for this printer.

| Home menu | Sub menu | Default | Configurable range | Notes |
|---------------------------|-------------------------|--------------|--|--|
| Global Configu- ration | - | Config Set 1 | Config Set 1 Config Set 2 Config Set 3 | Configuration number setting |
| Machine Infor- mation | Model Number *2 | - | CL-E300 | Displays the model number. *Appears as "CL-E303" for the CL- E303 model. |
| | Serial Number | - | RH****** | Displays the serial number |
| | Boot Version *2 | - | * * | Displays the boot version |
| | ROM Version *2 | - | **** | Displays the ROM version |
| | ROM Date *2 | - | **/**/** | Displays the ROM creation date |
| | ROM Check- Sum *2 | - | *** | Displays the ROM checksum |
| | Print Counter | - | ****.*** km | Displays the print counter |
| | Service Counter | - | ****.*** km | Displays the service counter |
| | Cut Counter | - | ***** | Displays the cut counter only for models with cutters |
| | Sensor Monitor *2 | - | *.* V | Displays the sensor level |
| | MAC Address | - | ** .** .** .** .** | Displays the MAC address |

*2 This cannot be obtained with LabelPrinterUtility. To check the value, print the list of settings.

Refer to 7.3 Configuration Print Mode

4.2 Obtaining the LabelPrinterUtility

- 1. Access the following URL from a PC to download the LabelPrinterUtility. http://www.citizen-systems.co.jp/support/download/printer/label/index_en.html
- 2. Save the downloaded LabelPrinterUtility.exe to the desired folder.

4.3 Using the LabelPrinterUtility

• Start LabelPrinterUtility.exe.

Refer to the user manual for more information on using the application.

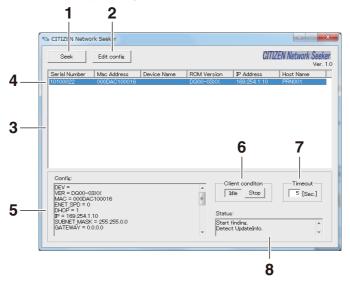
5. Configuring Ethernet Network Settings Using Network Seeker

You can check and change the settings of the wired LAN interface board by using CITIZEN Network Seeker, which is utility software that runs in Windows.

5.1 Starting Network Seeker

After obtaining the program "NetSeeker.exe" from the CD-ROM or our website, double click the program. A dialog box appears.

Start a search for printers by clicking the "Seek" button.



1. "Seek" button

Start a search for Ethernet interface boards on the network. Waits for a response during the time configured with [Communication timeout].

"Edit config" button

Change the settings of the selected board.

Board information list

Single click to select a board and double click to change settings.

- Board information Single click to select a board and double click to change settings.
- Configuration display section View the settings of the selected board.
- Client condition display When "Busy" is displayed, operations to search, change settings, and so on are prohibited.
 If you click "Stop", the "Busy" status is cleared forcibly.
- Communication timeout You can configure the time-out duration for searches and other operations.
- Status log View the status of the utility.

5.2 Changing Settings

You can configure an Ethernet interface board by selecting it at the main dialog box, and then clicking "Edit config".

 These are unalterable parameters. These parameters are for display purposes only.

| lease edit parameters then click OK. | |
|--------------------------------------|--------------------------|
| alterable parameters | |
| Device name: OL-E300 | ROM version: EQ000L0A |
| MAC address: 000DACFF0306 | Serial number: |
| Manufacturer: | |
| twork parameters | |
| Host name: CL-E321/300 Print S | Server |
| Line speed: Auto-detect | v |
| P address from DHCP: Enable 💌 | |
| IP address: 169.254.1.10 | Subnet mask: 255.255.0.0 |
| Gateway IP address: 0 . 0 . 0 . 0 | |
| int parameters | |
| PRNT_PORT: 9100 | PRNT_RCV_TMO: 60 [Sec.] |
| OK | Cancel |

- 1. Device name
- 2. MAC address
- 3. Manufacturer
- 4. ROM version
- 5. Serial number
- These are changeable parameters. Users can change these parameters.

| | Edit Config | × |
|----|---|---|
| | *Please edit parameters then click OK. | |
| | Unalterable parameters | |
| | Device name: CL-E300 ROM version: EQ000L0A | |
| | MAC address: 000DACFF0306 Serial number: | |
| | Manufacturer: | |
| | Network parameters | |
| 1- | Host name: CL-E321/300 Print Server | |
| 2— | Line speed: Auto-detect | |
| 3— | IP address from DHCP: Enable | |
| 4— | IP address: 169.254.1.10 Subnet mask: 255.255.0.0 | • |
| 5— | Gateway IP address: 0 . 0 . 0 . 0 | |
| | Print parameters | |
| | PRNT_PORT: 9100 PRNT_RCV_TMO: 60 [Sec.] | |
| | | |
| | | |
| | OK Cancel | |

- 1. Host name
- 2. Line speed
- 3. IP address from DHCP
- 4. IP address
- 5. Gateway IP address
- 6. Subnet mask

6. Configuring Printer Settings Using a Browser

Printer and network settings can be configured using a Web browser via the printer's built-in LinkServer function.

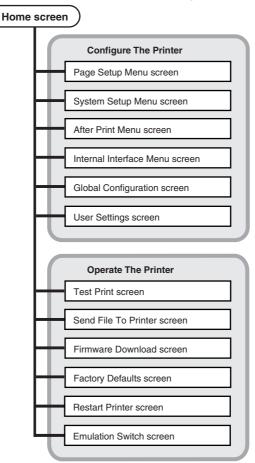
6.1 LinkServer user roles

LinkServer has the following three user roles available: User, Operator, and Administrator The menus that appear for each user role can be changed to restrict operational access to LinkServer.

The Home screen for the user role appears when first connecting.

6.2 LinkServer menu configuration

The following figure illustrates the LinkServer menu configuration.



6.3 LinkServer connection procedure

1. Open a Web browser and enter the IP address of the desired printer into the address bar (area circled in red).

The example illustrates the entry of "http://169.254.1.10".

| ← (// 169.254. | .1.10/ | | 0 - C | 🙋 Citizen LinkServer | × | | £ € | |
|-----------------|---------------------------|-----------------------|--------------|-----------------------|--------|---------|-----|--------|
| Li | ink 👁 Se | rver™ | | | 0 | CITIZEN | | |
| | | | | | ``` | | | |
| Prin | ter Information | | | Front Panel Status | | | | |
| Mode | lel Number Cl | -E300 | | | | | | |
| | | 59.254.001.010 | | | n Line | | | |
| Stat | | sady | | | Ready | | | |
| Mach | hine Information - Serial | number, Print counter | | | | | | |
| Acce | ess Level | | | | | | | |
| | | | | | | | | |
| _ | | | | | | | | |
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| | | | | s Japan Co. Ltd. 2014 | | | | |
| | | Copyright (g) | unden bystem | 5 (5)51 Co. 00. 2014 | | | 1 | |
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| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | \sim |

2. Press the [LOG IN] to display the authentication window.

| <page-header><complex-block><complex-block><complex-block><complex-block><complex-block><complex-block><complex-block></complex-block></complex-block></complex-block></complex-block></complex-block></complex-block></complex-block></page-header> | ← (a) @ http://169.254.1.10/ | | Citizen LinkServer × | CITIZEN | e" <mark>×</mark> ∰ |
|--|--|---|---|---------|---------------------|
| | Model Number IP Address Status Nechrise Information Access Level | Windows Security The server 169 254.110 is asking for you server reports that it is from Initia Server Warning 'Your warmare and passoons authentication on a connection that isr User name Passend Passend Remember my cre | ar user name and password. The - will be sent using basic 14 secure. dentials OK Cancel | | |

3. Enter your user name and password.

The default authentication credentials for the Operator role are as follows.

- User name: Operator
- Password: Operator

The default authentication credentials for the Administrator role are as follows.

- User name: Admin
- Password: Admin

The user name and password for the Operator and Administrator roles can be changed in the User Settings menu. User names and passwords can contain up to 20 single-byte, alphanumeric characters and symbols.

After successful authentication, the Home screen for the Operator or Administrator role appears.

| | CITIZEN |
|---|---|
| Printer Information | Front Panel Status |
| Model Number QE300 IP Address 169.254.001.010 Status Ready Machine Information - Serial number, Print counter | On Line Ready |
| Access Lovel | PAUSE STOP . FEED * |
| | · · · · · · · · · · · · · · · · · · · |
| Page Setup Menu - Page layout and print styles | Test Print - Check your printer Send File To Printer - Send printer code |
| A LAND AND A REAL AND A REAL AND A | |
| System Setup Menu - Printer configuration | Einmana Download - Upgrade the printer |
| After Print Menu - Cutting, Peeling and tearing | Firmware Download - Upgrade the printer |
| After Print Menu - Cutting, Peeling and tearing Internal Interface Menu - Ethernet, USB, Serial | Factory Defaults - Reset your printer |
| After Print Menu - Cutting, Peeling and tearing | |

The menus that appear for the User and Operator roles can be changed from the User Settings menu.

- 4. Press the Menu button on the Home screen to perform printer operations.
 - Printer Information: Displays printer information.
 - Configure The Printer: Provides access to the same settings as configured with LabelPrinterUtility.
 - Operate The Printer: Used to operate the printer.
- 5. Once you are finished, press the [LOG OUT] button to log out.

The Home screen for the User role appears again after logging out.

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7. Configuring the Printer Using the Operation Panel

The following operations can be performed from the control panel after changing the printer operation mode to the special mode.

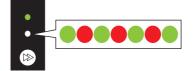
- Adjust media sensors
- · Print test samples
- · Print the settings configuration
- · Change emulation modes
- HEX dump mode
- Initialize the printer

*This device is not equipped with the [Menu Configuration Mode] featured in other models.

1. With the top cover closed, turn on the power to the printer while pressing and holding the FEED key.

The printer changes to the special mode.

The buzzer emits 3 short tones and the status LED flashes alternately in green and red.



2. Press the FEED key to select the desired operation mode.

| Mode | Buzzer | Status | LED |
|--------------------------|---------------|--------------------------|-----------------|
| | | Color | Interval |
| Special function mode | 3 short tones | Alternately in green and | Flashes quickly |
| | | red | |
| | | | |
| | Press the | FEED key ↓ | |
| Sensor Adjustment Mode | 1 short tones | Green | Flashes |
| | | | |
| | Press the | FEED key ↓ | |
| Test print mode | 2 short tones | Green | Flashes quickly |
| | | | |
| | Press the | FEED key ↓ | |
| Configuration print mode | 3 short tones | Amber | Flashes |
| | | | |
| | Press the | FEED key ↓ | |

| Mode | Buzzer | Status | s LED |
|--------------------------|---------------------|---------------------|-----------------|
| | | Color | Interval |
| Emulation switching mode | 4 short tones | Amber | Flashes quickly |
| | | | |
| · · · | Press the | FEED key ↓ | |
| HEX dump mode | 5 short tones | Red | Flashes |
| | | | |
| · | Press the | FEED key ↓ | |
| Initialization mode | 6 short tones | Red | Flashes quickly |
| | | | |
| | Press the | FEED key ↓ | |
| | Returns to the sens | or adjustment mode. | |

- 3. Once the desired operation mode has been selected, press and hold the FEED key for at least 3 seconds.
- 4. Release the FEED key once the buzzer emits a long tone. The printer is now in the desired operation mode.
- After finishing use of operation modes, press and hold the FEED for at least 3 seconds to return to the normal startup mode.
 After you have finished configuring each mode, restart the printer.
- To return to the normal startup mode without selecting an operation mode after changing to the special function mode, press and hold the FEED key for at least 3 seconds.
- If you continue to press and hold the FEED key for at least 3 seconds after the buzzer emits a long tone, the buzzer will emit 4 short tones, and then printer restarts.
- The printer restarts, and changes to normal mode.

7.1 Sensor Adjustment Mode

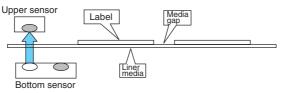
Use this mode to adjust media sensors (upper or lower) in accordance with the media used.

Set the sensor position and media before starting this adjustment procedure.

Setting transmissive sensor positions and media

- 1. Align the bottom sensor and upper sensor with each other at the same position.
- Refer to Transmissive Sensor Adjustment
 Peel a label and set the media so that only the backing paper (glassine paper) reaches the platen roller and media sensor.

If the media has black lines, do not set the media so that a black line is between the sensors.

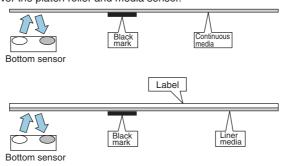


3. Adjust the sensors.



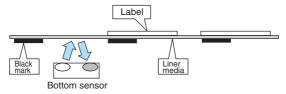
Setting reflective sensor positions and media

- 1. Adjust the reflective sensor so that it is underneath the media.
- 2. Set the media so that the media covers the platen roller and media sensor. Set that media so that black lines or gaps between labels do not cover the sensor.
 - Using continuous media and label media without gaps between labels Set the media so that a section without a black line (or label face stock for label media) does not cover the platen roller and media sensor.

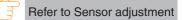


• Using label media with gaps

Peel a label and set the media so that only the backing paper (glassine paper) reaches the platen roller and media sensor.



3. Adjust the sensors.



Sensor adjustment

- 1. Turn on the power to the printer while pressing and holding the FEED key to start the printer in special function mode.
- 2. Press the FEED key once to select sensor adjustment mode.

The buzzer emits 1 short tone. The status LED also flashes in green.



- 3. Press and hold the FEED key for at least 3 seconds.
- 4. Release the FEED key once the buzzer emits a long tone and then press the FEED key again.

The printer is now in sensor adjustment mode.

 Press the FEED key to select either transmissive sensor or reflective sensor. Each press of the FEED key toggles between transmissive sensor and reflective sensor options.

| Sensor | Buzzer | Statu | s LED |
|---------------------|----------------------|-------|-----------------|
| | | Color | Interval |
| Transmissive sensor | 1 short tones | Green | Flashes |
| | | | |
| | Press the FEED key ↓ | | |
| Reflective sensor | 2 short tones | Green | Flashes quickly |
| | | | |

6. Press and hold the FEED key for at least 3 seconds.

7. Release the FEED key once the buzzer emits a long tone.

The sensor adjustment process starts.

- Once sensors have been adjusted, the buzzer emits 1 short tone, and the printer restarts.
- The buzzer emits 1 long tone if sensor adjustment fails. If this happens, check the sensor and media positions.
- To cancel sensor adjustment, continue pressing and holding the FEED key for at least 3 seconds at step 7.

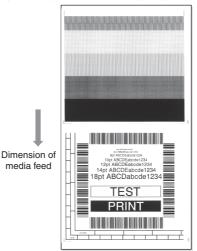
The buzzer emits 4 short tones, and the printer restarts.

7.2 Test print mode

This mode prints the test sample.

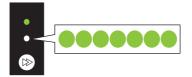
This printer can print test samples to label media and continuous media.

Printing test samples is a quick way to check print quality.



Load media and then perform the following procedure.

- 1. Turn on the power to the printer while pressing and holding the FEED key to start the printer in special function mode.
- Press the FEED key twice to select test print mode. The buzzer emits 2 short tone. The status LED also flashes guickly in green.



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- 3. Press and hold the FEED key for at least 3 seconds.
- 4. Release the FEED key once the buzzer emits a long tone. The printer is now in test print mode.
- Press the FEED key to select the media. Each press of the FEED key toggles between label media and continuous media.

| Media | Buzzer | Status LED | |
|-------------|----------------------|------------|-----------------|
| | | Color | Interval |
| Label media | 1 short tones | Green | Flashes |
| | | | |
| | Press the FEED key ↓ | | |
| Continuous | 2 short tones | Green | Flashes quickly |
| | | | |

- 6. Press and hold the FEED key for at least 3 seconds.
- 7. Release the FEED key once the buzzer emits a long tone. The test print process starts.
 - Once the test sample has been printed, press the FEED key to print another test sample without a feed operation.
- 8. Once the test sample has been printed, turn the power to the printer off and on again to reset the printer in the normal startup mode.
- To cancel test printing, continue pressing and holding the FEED key for at least 3 seconds without releasing your finger at step 7.

The buzzer emits 4 short tones, and the printer restarts.



Normal mode printing can also be performed when the printer is in test print mode. Note that pressing the FEED key while the printer is in test print mode will not feed media. Instead, it will print a test sample.

7.3 Configuration Print Mode

This mode is used to print the printer settings configuration when using continuous media mode. Printing the current settings configuration is a quick way to check the current configuration.

| Machine Informati | on | | |
|---|---|--|---|
| Model Number | : | CL-E300 | |
| Serial Number | : | RH****** | |
| Boot Version | : | 0.0 | |
| ROM Version | : | ***** | |
| ROM Date(DD//MM//YY) | : | **/**/** | |
| ROMCheck Sum | : | **** | |
| Print Counter | : | 0001.234km | |
| Service Counter | : | 0001.234km | |
| Cut Counter | : | 0 | |
| Sensor Monitor | : | 1.50V | |
| MAC Address | : | ff:ff:ff:ff:ff | |
| Current Menu Settir | ıg | | |
| [Global Config Menu] | | | |
| Config Set | : | 1 | |
| [PageSetup Menu] | | | |
| Print Speed | : | 6 IPS | |
| Print Daw | | -10 | |
| | | | |
| ortion | | - | _ |
| reed Key Action | : | Feeds Metha | |
| | | | |
| [Interface Menu] | | | |
| RS-232C Baud rate | : | 9600 bps | |
| | | | |
| RS-232C Parity | : | None | |
| | : | | |
| RS-232C Parity RS-232C Length RS-232C Stop bit | : | None | |
| RS-232C Parity RS-232C Length RS-232C Stop bit RS-232C X-ON | : | None 8 bit | |
| RS-232C Parity RS-232C Length RS-232C Stop bit | : | None 8 bit 1 bit | |
| RS-232C Parity RS-232C Length RS-232C Stop bit RS-232C X-ON USB Device Class USB VCOM Protocol | : | None 8 bit 1 bit Yes | |
| RS-232C Parity RS-232C Length RS-232C Stop bit RS-232C X-ON USB Device Class | : | None 8 bit 1 bit Yes Printer | |
| RS-232C Parity RS-232C Length RS-232C Stop bit RS-232C X-ON USB Device Class USB VCOM Protocol | : | None 8 bit 1 bit Yes Printer Auto | |
| RS-232C Parity RS-232C Length RS-232C Stop bit RS-232C X-ON USB Device Class USB VCOM Protocol IPv4 Address | : | None 8 bit 1 bit Yes Printer Auto 000.000.000 | |
| RS-232C Parity RS-232C Length RS-232C Stop bit RS-232C X-ON USB Device Class USB VCOM Protocol IPv4 Address IPv4 Subnet Mask | ::::::::::::::::::::::::::::::::::::::: | None 8 bit 1 bit Yes Printer Auto 000.000.000.000 000.000.000 | |

Example of printed settings configuration

Load media and then perform the following procedure.

- 1. Turn on the power to the printer while pressing and holding the FEED key to start the printer in special function mode.
- 2. Press the FEED key 3 times to select configuration print mode. The buzzer emits 3 short tone.

The status LED also flashes in amber.



- 3. Press and hold the FEED key for at least 3 seconds.
- 4. Release the FEED key once the buzzer emits a long tone. The printer is now in settings print mode.

- 5. Press and hold the FEED key for at least 3 seconds.
- Release the FEED key once the buzzer emits a long tone. The configuration print process starts. Once the configuration has been printed, the printer will be in the online state.
- 7. To print configurations that include default settings, continue pressing and holding the FEED for at least 3 seconds without releasing your finger at step 6.
- 8. Release the FEED key once the buzzer emits a long tone and then press the FEED key again.

The process to print a configuration that includes default settings starts. Once the configuration has been printed, the printer will be in the online state.

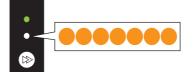
• To cancel configuration printing, continue pressing and holding the FEED key for at least 3 seconds without releasing your finger at step 7.

The buzzer emits 4 short tones, and the printer restarts.

7.4 Emulation switching mode

This mode is used to change the command set used. The default setting is [DMX mode].

- 1. Turn on the power to the printer while pressing and holding the FEED key to start the printer in special function mode.
- Press the FEED key 4 times to select emulation switching mode. The buzzer emits 4 short tone. The status LED also flashes guickly in amber.



- 3. Press and hold the FEED key for at least 3 seconds.
- 4. Release the FEED key once the buzzer emits a long tone. The printer is now in emulation switching mode.

5. Press the FEED key to select an emulation switching mode.

Each press of the FEED key cycles through the emulation mode options of DMX mode, ZPL mode, and EPL mode.

| Emulation mode | Buzzer | Status | s LED |
|----------------|---------------|------------|-----------------|
| | | Color | Interval |
| DMX mode | 1 short tones | Green | Flashes |
| | | | |
| | Press the I | FEED key ↓ | |
| ZPL mode | 2 short tones | Green | Flashes quickly |
| | | | |
| | Press the I | FEED key ↓ | |
| EPL mode | 3 short tones | Amber | Flashes |
| | | | |
| | Press the I | FEED key ↓ | |
| | Returns to | DMX mode. | |

- 6. Press and hold the FEED key for at least 3 seconds.
- 7. Release the FEED key once the buzzer emits a long tone and then press the FEED key again.

The selected emulation mode is set, and the printer restarts.

 To cancel setting the emulation mode, continue pressing and holding the FEED key for at least 3 seconds without releasing your finger at step 7.

The buzzer emits 4 short tones, and the printer restarts.

7.5 HEX Dump Mode

This mode is used to print a hex dump list (data received by the printer represented in hex values) for confirmation of the data content.

| DUN | MP LIST | |
|-----|--|---|
| | 10 30 31 30 30 0D 02 60 30 30 32 30 0D 02 4C .M0100c0020L 11 31 0D 31 30 30 30 30 30 30 30 30 30 31 30 D11.100000000010 | |
| | 0 31 30 31 32 33 34 35 36 37 38 39 3A 38 3C 0010123456789;;< | |
| | | _ |

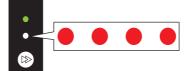
Example of dump list printing

Load media and then perform the following procedure.

1. Turn on the power to the printer while pressing and holding the FEED key to start the printer in special function mode.

2. Press the FEED key 5 times to select HEX dump mode.

The buzzer emits 5 short tone. The status LED also flashes in red.



- 3. Press and hold the FEED key for at least 3 seconds.
- 4. Release the FEED key once the buzzer emits a long tone. The printer is now in HEX dump mode.
- Press the FEED key to select the media. Each press of the FEED key toggles between label media and continuous media.

| Media | Buzzer | Status LED | |
|-------------|----------------------|------------|-----------------|
| | | Color | Interval |
| Label media | 1 short tones | Green | Flashes |
| | | | |
| | Press the FEED key ↓ | | |
| Continuous | 2 short tones | Green | Flashes quickly |
| | | | |

- 6. Press and hold the FEED key for at least 3 seconds.
- 7. Release the FEED key once the buzzer emits a long tone and then press the FEED key again.

The hex dump list print process starts.

- 8. Once the HEX dump list has been printed, turn the power to the printer off and on again to reset the printer in the normal startup mode.
- To cancel HEX dump mode, continue pressing and holding the FEED key for at least 3 seconds without releasing your finger at step 7. The buzzer emits 4 short tones, and the printer restarts.

7.6 Initialization Mode

This mode is used to initialize printer settings and the user memory area.

1. Turn on the power to the printer while pressing and holding the FEED key to start the printer in special function mode.

2. Press the FEED key 6 times to select initialization mode.

The buzzer emits 6 short tone. The status LED also flashes quickly in red.



- 3. Press and hold the FEED key for at least 3 seconds.
- 4. Release the FEED key once the buzzer emits a long tone. The printer is now in initialization mode.
- 5. Press the FEED key to select initialization of settings or initialization of the user memory area.

Each press of the FEED key toggles between settings initialization and user memory area initialization.

| Initialization option | Buzzer | Statu | s LED |
|---------------------------|---------------|-------|-----------------|
| | | Color | Interval |
| Settings initialization | 1 short tones | Green | Flashes |
| | | | |
| Press the FEED key ↓ | | | |
| User memory area initial- | 2 short tones | Green | Flashes quickly |
| ization | | | |

- 6. Press and hold the FEED key for at least 3 seconds.
- 7. Release the FEED key once the buzzer emits a long tone and then press the FEED key again.

Once the selected initialization process completes, the printer restarts.

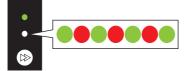
• To cancel setting the initialization mode, continue pressing and holding the FEED key for at least 3 seconds without releasing your finger at step 7. The buzzer emits 4 short tones, and the printer restarts.

8. Online Configuration Mode

1. Press and hold the FEED key for at least 3 seconds while the printer is online and not receiving data.

The printer is now in online configuration mode.

The buzzer emits 3 short tones and the status LED flashes alternately in green and red.



2. Press the FEED key to select media sensor mode.

| Media sensor mode | Buzzer | Statu | s LED |
|--------------------------|-----------------------|----------------------|-----------------|
| | | Color | Interval |
| Transmissive sensor mode | 1 short tones | Green | Flashes |
| | | | |
| | Press the | FEED key ↓ | |
| Reflective sensor mode | 2 short tones | Green | Flashes quickly |
| | | | |
| | Press the | FEED key ↓ | |
| Continuous media mode | 3 short tones | Amber | Flashes |
| | | | |
| | Press the | FEED key ↓ | |
| | Returns to the transr | nissive sensor mode. | |

- 3. Press and hold the FEED key for at least 3 seconds.
- 4. Release the FEED key once the buzzer emits a long tone. The selected media sensor mode is set.
- To cancel online configuration mode, continue pressing and holding the FEED key for at least 3 seconds without releasing your finger at step 4. The buzzer emits 4 short tones, and the printer restarts.

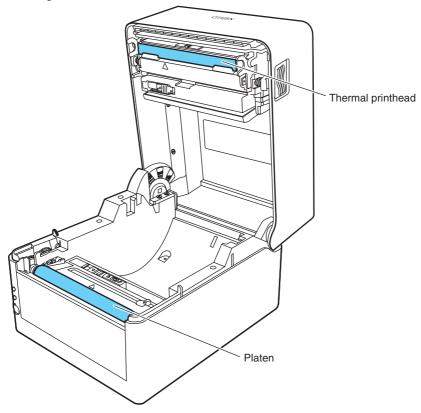
9. Clearing Jobs Stored in the Printer

Jobs stored in the printer can be cleared when the printer is paused.

- 1. Press the FEED key if the printer is printing or receiving data. The printer is now paused.
- 2. Press and hold the FEED key for at least 3 seconds. The buzzer emits 1 short tone.
- Release the FEED key. One job has been cleared. Alternatively, continue to press and hold the FEED key for at least 3 second without releasing your finger until the buzzer emits 2 short tones.
- 4. Release the FEED key once the buzzer emits 2 short tones. All jobs have been cleared.

10. Maintenance

Perform printer maintenance on a regular basis to ensure that the printer is always in good working condition.



Excluding ethyl alcohol, do not use solvents such as benzene, acetone, thinner, or others to clean the printer. Doing so may cause the printer surface or other parts to deform.

10.1 Plastic Surface of Printer and Platen

 Use a soft cloth or cotton swab dipped with a small amount of ethyl alcohol to wipe off dust and dirt.



Using an excessive amount of ethyl alcohol to clean the platen may cause surface deformation, which would result in unstable feed operation.

10.2 Thermal head

Use a cotton swab dipped with a small amount of ethyl alcohol.



- The thermal head is hot immediately after printing. Do not touch the thermal head at this time.
- Do not touch the thermal head with bare hands or do not allow metals to come into contact with the thermal head.

11. Appendices

11.1 Troubleshooting

The status LED and buzzer are used to confirm error status when errors occur in the printer.

| Status LED | Buzzer | Error | Error description (in bold) and resolution |
|---------------|----------|-----------------------|--|
| Flashes | 2 short | Head Up Error | Top cover is not closed correctly. |
| in red | tones | | Close the top cover correctly. |
| Flashes | 3 short | End of Media Error | Printer has run out of media. |
| in red | tones | | Media is not set correctly. |
| | | | Open the top cover and load media or set the media correctly. |
| Flashes | 4 short | Media Load Error | Label gaps or black lines cannot be detected. |
| in red | tones | Media Jam Error | Check the media sensor positions. |
| | | | Readjust the media sensors. |
| | | | Make sure the selection of transmissive sensor, reflective |
| | | | sensor, or continuous media matches the type of media used. |
| | | | Media cannot be transported. |
| | | | Open the top cover, remove any media blocking transport, |
| | | | and set the media again. |
| Flashes | 6 short | Cutter Error | Cutter is not operating. |
| in red | tones | (models with cutters) | Open the top cover and remove any media or other object |
| | | | blocking cutter operation. |
| | | | • If the cutter does not operate after removing foreign objects, |
| | | | the cutter may not be connected or installed correctly or may |
| | | | have failed. Contact your retailer. |
| | | | Home position cannot be detected. |
| | | | The auto cutter may have failed. Contact your retailer. |
| Flashes | Rep- | Head Low Tempera- | The thermal head is at a low temperature (approximately |
| in amber | etitions | ture Error | -10°C). |
| | of long | | • Use the printer in proper environments of at least 0°C. |
| | tones | | The thermal head is not connected. |
| | | | Check the cable connection with the thermal head. |

| Status LED | Buzzer | Error | Error description (in bold) and resolution |
|--|--------------------------------------|---|--|
| Flashes in amber | None | Head High Tempera- ture Alarm Motor High Tem- perature Alarm | The thermal head or feed motor is at a high temperature. Printing stops if the thermal head reaches approximately 70°C or more while printing. Printing resumes automatically once the temperature falls to approximately 60°C or lower. Printing stops if the feed motor reaches approximately 95°C or more while operating. Printing resumes automatically once the temperature falls to approximately 85 °C or lower. |
| Flashes alter- nately in red and green | Rep- etitions of long tones | RS-232C Communi- cation Error | Parity error Framing error Receive buffer is full Transmission buffer is full • Check the communication settings. |
| Flashes alter- nately in red and amber | Rep- etitions of long tones | Hardware Error | A hardware error has been detected. Immediately turn off the power to the printer and contact your retailer. |

This product does not have a broken head element check function so if there are vertical white lines that you suspect are caused by a broken head element, clean the thermal head and then perform a print check in the sample print mode.

If the white line problem is not resolved, the head element may be broken.

11.2 Basic Specifications

Printing

| Item | Description | |
|-------------------|---|--|
| Print method | Direct thermal | |
| Resolution | CL-E300 | Main scanning line density: 203 dots/inch (8 dots/mm) |
| | | Sub-scanning line density: 203 dots/inch (8 dots/mm) |
| | | Head dots: 864 dots (effective dots: 832) |
| | CL-E303 | Main scanning line density: 300 dots/inch (11.8 dots/mm) |
| | | Sub-scanning line density: 300 dots/inch (11.8 dots/mm) |
| | | Head dots: 1248 dots (effective dots: 1240) |
| Max. print width | CL-E300 | 104 mm / 4.1 inch |
| | CL-E303 | 105 mm / 4.1 inch |
| Max. print length | CL-E300 | (Datamax) 2539.7 mm/99.99 inch |
| | | (Zebra) 2540.0 mm/100.00 inch |
| | CL-E303 | 1,270.0 mm / 50.00 inch |
| Print density | Print density is adjustable with software | |

Print speed

| Item | Description | |
|---------------------|-------------|--|
| Print speed setting | CL-E300 | 2 to 8 inch per second in 1-inch increments (7 to 8 inch per second possible at normal temperature using a print density of 10 and the recommended direct thermal media) |
| | CL-E303 | 2 to 6 inch per second in 1-inch increments |

Print mode

| Item | Description | |
|---------------|---|--|
| Batch mode | Normal printing (single or multiple sheets) | |
| Tear off mode | Back-feeds to the tear-off position after printing is complete. (Labels may peel when roll media is back-fed.) | |
| Cut mode | Prints while cutting after every specified number of sheets/labels. Two types of cut mode operations are available. Back-feed Cut-through (Cut-through pauses printing to cut the previous label when it reaches the cut position. Printing resumes after the cut operation, but a gap may be formed at the location where printing was paused.) | |

Media

| Item | Description | | |
|--|--|------------------------------|--|
| Media types | Roll, fanfold media (Continuous label media, die-cut media, continuous tag media, and continuous ticket media) | | |
| Roll media orienta- tion | Outer surface | | |
| Recommended media | Label media (Ricoh 150LA-1), tag media (Ricoh 130LHB) | | |
| Max. media width | 118.0 mm / 4.65 inch | | |
| Min. media width | 25.4 mm / 1.00 inch | | |
| Min. label width | 21.5 mm / 0.85 inch | | |
| Min. media pitch*1 | 8.89 mm / 0.35 inch*2 | | |
| Max. media thick- | standard model | 0.19 mm / 0.0075 inch | |
| ness | integrated cutter model | | |
| | separable cutter model | 0.15 mm / 0.0059 inch | |
| Max. media length | CL-E300 | (Datamax) 2539.7mm/99.99inch | |
| | | (Zebra) 2540.0mm/100.00inch | |
| | CL-E303 | 1,270.0 mm / 50.00 inch | |
| Min. media length*1 | 6.35 mm / 0.25 inch*2 | | |
| Min. media thickness 0.0635 mm / 0.0025 inch | | nch | |
| Loaded roll diameter | Max. external diameter: 127 mm / 5 inch | | |
| | Media core: 25.4 or 38.1 mm / 1 or 1.5 inch | | |

*1 To use media with a pitch of less than 1 inch, enable the [Small Media Adjustment] setting. *2 For models with a cutter, the cutter operation will not be performed if the media length is less than 25.4 mm (1 inch).

Barcodes

| Item | | Description | |
|--------------------|--------------------------|--|--|
| Datamax® emulation | One- dimen- sional | ·Code 3 of 9 ·UPC-A ·UPC-E ·EAN-13 (JAN-13) ·EAN-8 (JAN-8) ·Interleaved 2 of 5 ·Code 128 ·HIBC (Code 3 of 9 using Modulus 43) ·Codabar (NW-7) ·Int 2 of 5 (Interleaved 2 of 5 using Modulus 10) ·Plessey ·Case Code ·UPC2DIG Add ·UPC5DIG Add ·Code 93 ·Telepen ·ZIP ·UCC/EAN128 ·UCC/EAN128(for K-MART) ·UCC/EAN128 Random Weight ·FIM | |
| | Two- dimen- sional | Maxi Code ·PDF-417 ·Data Matrix ·QR Code Aztec ·GS1 Databar Omnidirectional (RSS-14) ·GS1 Databar Truncated (RSS-14 Truncated) ·GS1 Databar Stacked (RSS-14 Stacked) ·GS1 Databar Stacked Omnidirectional (RSS-14 Stacked Omnidirectional) ·GS1 Databar Limited (RSS Limited) ·GS1 Databar Expanded (RSS Expanded) | |
| Zebra® emulation | One- dimen- sional | ·Code 11 ·Interleaved 2 of 5 ·Code 39 ·EAN-8 ·UPC-E ·Code93 ·Code128 ·EAN-13 ·Industrial 2 of 5 ·Standard 2 of 5 ·ANSI COD- ABAR ·LOGMARS ·MSI ·Plessey ·UPC/EAN Extensions ·UPC-A ·POSTNET ·Planet | |
| | Two- dimen- sional | Code49 ·PDF-417 ·CODA BLOCK ·Maxi Code ·Micro PDF-417 Data Matrix ·QR Code ·TLC39 ·Aztec GS1 Databar Omnidirectional (RSS-14) GS1 Databar Truncated (RSS-14 Truncated) GS1 Databar Stacked (RSS-14 Stacked) GS1 Databar Stacked Omnidirectional (RSS-14 Stacked Omnidirectional (RSS-14 Stacked Omnidirectional) GS1 Databar Limited (RSS Limited) GS1 Databar Expanded (RSS Expanded) | |

Fonts

| Item | Description | |
|--------------------|--|--|
| Datamax® emulation | 1. 7 types of fixed-pitch fonts | |
| | 2. OCR fonts | |
| | OCR-A*3 and OCR-B*3 | |
| | 3. Proportional fonts | |
| | CG Triumvirate smooth font | |
| | CG Triumvirate bold smooth font | |
| | CL-E300: 6, 8, 10, 12, 14, 18, 24, 30, 36, and 48 points | |
| | CL-E303: 4, 5, 6, 8, 10, 12, 14, 18, 24, 30, 36, and 48 points | |
| | Character sets: Compliant with code page 850 | |
| | TrueType[™] rasterizer | |
| Zebra® emulation | 1. 5 types of fixed-pitch fonts | |
| | 2. OCR fonts | |
| | OCR-A*3 and OCR-B*3 | |
| | 3. Proportional fonts | |
| | CG Triumvirate Condensed Bold | |
| | 4. TrueType™ rasterizer | |

*3 Depending on the reader, OCR font recognition may be poor.

Symbol Sets

| Item | Description | |
|------------------|--|--|
| Single-byte sets | ·PC866U Ukrainian*4 ·PC Cyrillic ·ISO 60 Danish/Norwegian ·Desk Top ·ISO | |
| | 8859/1 Latin 1 ·ISO 8859/2 Latin 2 ·ISO 8859/9 Latin 5 ·ISO 8859/10 Latin 6 | |
| | ·ISO 8859/7 Latin/Greek ·ISO 8859/15 Latin 9 ·ISO 8859/5 Latin/Cyrillic ·ISO | |
| | 69: French ·ISO 21: German ·ISO 15: Italian ·Legal, Math-8 ·Macintosh ·Math | |
| | ·PC-858 Multilingual ·Microsoft Publishing ·PC-8 ·PC-437 USA ·PC-8 D/N | |
| | ·PC-437N ·PC-852 Latin/Greek ·PC-862 Latin/Hebrew ·Pi Font ·PC-850 | |
| | Multilingual ·PC-864 ·Latin/Arabic ·PC-8 TK ·PC-437T ·PC-1004 ·PC-775 | |
| | Baltic ·Non-UGL ·Generic Pi Font ·Roman-8 ·Roman-9 ·ISO 17: Spanish | |
| | ·ISO 11: Swedish ·Symbol ·PS Text ·ISO 4: United Kingdom ·ISO 6: ASCII | |
| | ·Ventura International ·Ventura Math ·Ventura US ·Windows 3.1 Latin 1 | |
| | ·Wingdings ·Windows 3.1 Latin 2 ·Windows 3.1 Baltic (Latv, Lith) ·Windows | |
| | 3.0 Latin 1 . Windows Latin/Cyrillic . Windows 3.1 Latin 5 | |
| Double-byte sets | ·EUC ·JIS ·Shift JIS ·Unicode ·KS Code ·GB Code | |

*4 "PC866U Ukraina" is supported only in Datamax® emulation.

Control Languages

Supports the Datamax® language and Zebra® language

Digital Processing Components

| Item | Description | |
|------|---|--|
| CPU | 32-bit RISC CPU (max. operation frequency of 216 MHz) | |
| ROM | 16 MBytes of flash ROM (user area: 4 MBytes) | |
| RAM | 32 MBytes of SDRAM (user area: 4 MBytes) | |

Media detection sensors

| Item | Description |
|---------------------|---|
| Transmissive sensor | Detects label gaps, tag notches, and out of media state |
| Reflective sensor | Detects black lines on back of media and out of media state |

Communication interfaces

| Item | Description | |
|----------|---|--|
| USB | Full-speed USB 2.0 (12 Mbps), Type B connector | |
| Ethernet | 100BASE-TX / 10BASE-T, RJ45 connector | |
| Serial | RS232C, 9-pin D-SUB female connector | |
| | Baud rates: 2400, 4800, 9600, 19200, 38400, 57600, and 115200 bps | |

Indicators and switches

| Item | Description | |
|--------------------------|--|--|
| LED | Power on (green), status/errors/alarms (green, red, and amber) | |
| Buzzer | Alarms, warnings, and other indications | |
| Operation keys | 1 (Performs feed and other operations) | |
| Head-up detection switch | Detects head-up states | |
| Ethernet panel button | Prints and initializes Ethernet settings | |
| Power switch | Turning the Power On/Off | |

Power supply

AC adapter (CEC Level VI-compliant) Input: 100 to 240 VAC, 50/60 Hz Output: 24 VDC, 2.5 A

Supported Standards

- VCCI: CISPR32 Class B
- UL: 60950-1st, 2nd Edition
- CSA: No. 950
- FCC: 47 CFR Part 15, Subpart B, Class B
- EN: 60950-1
- EN: 55032:2012 Class B
- EN: 55024:2010
- EN: 61000-3-2:2014
- EN: 61000-3-3:2013
- EU: RoHS (2011/65/EC)
- Energy Star: Energy Equipment, Version2.0
- CCC: GB4943.1-2011, GB/T9254-2008, and GB17625.1-2012
- KC-Mark / BIS / CoC Mexico / S-mark SIN(AC Adapter) / RCM

Reliability

| Item | Description | |
|-------------|---|--|
| Head | When the recommended paper is used under our given printing conditions: | |
| | Wear resistance 50 km (damage due to foreign matter being caught in the head is not applicable) | |
| Platen | 100 km | |
| Auto cutter | Integrated type: | |
| | Min. 300,000 cuts (60 μ m \leq paper thickness < 150 μ m) | |
| | Min. 100,000 cuts (150 μ m \leq paper thickness \leq 190 μ m) | |
| | Interchangeable type: | |
| | Min. 300,000 cuts (60 μ m \leq paper thickness < 85 μ m, paper width \leq 4 inches) | |
| | Min. 200,000 cuts (85 μ m \leq paper thickness \leq 150 μ m, paper width \leq 4 inches) | |
| | Min. 150,000 cuts (85 μ m \leq paper thickness \leq 150 μ m, paper width \leq 2 inches) | |

Environmental conditions

Refer to 11.3 Usage Conditions

Refer to 11.4 Storage Conditions

Electrostatic Voltage

EN61000-4-2:2009-compliant

AC Power Consumption

| Item | Description |
|---------|---|
| CL-E300 | 100 V/50 Hz: 1.5 W standby, |
| | 66 W during operation |
| | (USB, print speed of 8 IPS, print density of 10, printing rate of 12.5 %) |
| | 220 V/50 Hz: 1.7 W standby, |
| | 64 W during operation |
| | (USB, print speed of 8 IPS, print density of 10, printing rate of 12.5 %) |
| CL-E303 | 100 V/50 Hz: 1.7 W standby, |
| | 60 W during operation |
| | (USB, print speed of 6 IPS, print density of 10, printing rate of 12.5 %) |
| | 220 V/50 Hz: 1.7 W standby, |
| | 58 W during operation |
| | (USB, print speed of 6 IPS, print density of 10, printing rate of 12.5 %) |

External Dimensions

Refer to External Dimensions*5

Weight

- CL-E300X***NX (standard model): 2.0 kg
- CL-E300X***BC (integrated cutter model): 2.3kg
- CL-E300X***PC (separable cutter model): 2.2kg *Excludes media, the AC adapter, and power cord.

Accessories

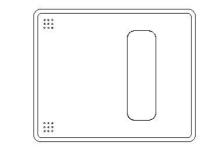
- AC adapter
- AC cord
- Media shaft
- Media shaft guide
- USB cable
- CD-ROM
- Quick Start Guide/Safety Instructions

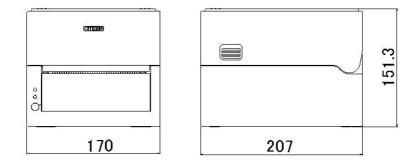
Factor Options (the default setting)

- Cutter unit (integrated or separable)
- Model with AC adapter storage case

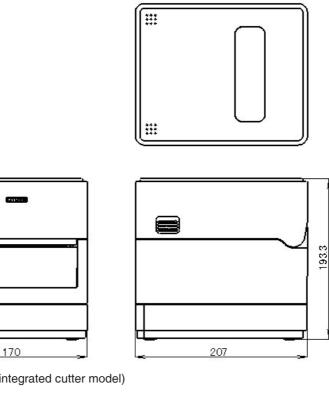
External Dimensions*5

CL-E300X***NX (standard model)



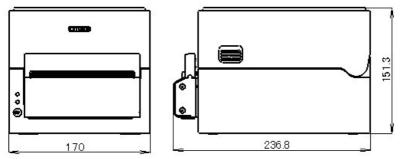


CL-E300X***NS (model with AC adapter storage case)

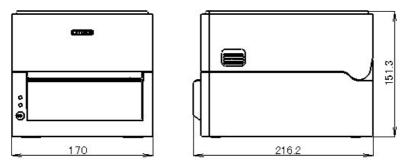




•• •



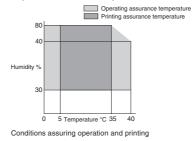
CL-E300X***PC (separable cutter model)



*5 Dimensions are design values. Actual dimensions may vary due to variance in manufacturing processes.

11.3 Usage Conditions

- (1) Safe operating temperature: 0 to 40°C
- (2) Safe printing temperature: 5 to 35°C
- (3) Humidity: 30 to 80% RH (no condensation)



11.4 Storage Conditions

(1) Temperature: -20 to 60°C (excluding record sheet)

(2) Humidity: 5 to 85% RH (excluding record sheet, no condensation)

*However, for storage at high temperature and humid environments, the combination of 40°C and 85% RH (no condensation) is taken as the worst value.

11.5 Interfaces

USB Interface

Specifications

| Standard | Compliant with Universal Serial Bus Specification 2.0 | |
|--------------------|---|--|
| Transmission speed | Supports Full-speed 12 Mbps transfer | |
| Receive buffer | 16 kB receive buffer | |
| Connector | USB Type B connector | |

Signal Line/Pin Assignment

| Signal code | Signal | Pin No. | Function |
|-------------|----------------------|---------|----------------------|
| VBUS | USB power | 1 | USB power (+5 V) |
| D- | Negative signal line | 2 | Negative signal line |
| D+ | Positive signal line | 3 | Positive signal line |
| GND | GND | 4 | GND |

Ethernet Interface

Supported Protocols

| Supported Protocols | ARP, IP, and TCP |
|-----------------------------|---------------------------------------|
| Transport layer protocols | TCP and UDP |
| Application layer protocols | DHCP, HTTP, SNMP, and Raw Socket Port |

Raw Socket Port

Performs bidirectional communication of print data and printer status.

| Port No. | 9100 (user-configurable) | |
|---------------------------------|---|--|
| Direction of port communication | Bidirectional | |
| Max. socket connections | 8 | |
| Printable connections | 1 (other sockets are reserved) | |
| Timeout | Default: 60 seconds | |
| | Configurable between 0 and 300 seconds. | |
| | Value of 0 disables timeouts. | |

HTTP Server

The Web monitoring function can be used to configure printer and network settings. Refer to the pages describing the Web monitor for more information.

| ਜ | Refer to 6 | Configuring Printer Settings Using a Browser | |
|---------|--------------|---|--|
| \prec | 110101 10 0. | Configuring i finiter Octaings Config a Drowser | |

| Port No. | 80 |
|-------------------------------|----------|
| Max. simultaneous connections | 4 |
| HTTP version | HTTP/1.1 |

DHCP

Automatically retrieves IP address information from a DHCP server within 60 seconds after the power is turned on.

If IP address information cannot be retrieved automatically, a fixed IP address (default is 169.254.1.10) is applied.

SNMP Agent

| SNMP Version | SNMPv2 (Trap function not supported) | |
|----------------|--|--|
| Port No. | 161 | |
| Supported MIBs | HOST-RESOURCES-MIB and Citizen-MIB (Private) | |
| Community name | public | |

Connector Connections

| Pin No. | Signal | Function |
|---------|--------|---------------------|
| 1 | TX+ | Transmit (positive) |
| 2 | TX- | Transmit (negative) |
| 3 | RX+ | Receive (positive) |
| 4 | N.C. | - |
| 5 | N.C. | - |
| 6 | RX- | Receive (negative) |
| 7 | N.C. | - |
| 8 | N.C. | - |

Compatible connectors

Printer: RJ-45 connector

LED operation

The following table describes port LED operation.



1. Network communication speed indicator

| Communication speed | LED (Green) |
|----------------------|-------------|
| 100 Mbps | On |
| 10 Mbps/disconnected | Flashes |

2. Network status indicator

| Status | LED (amber) |
|-----------------|-------------|
| Connecting | On |
| Disconnected | Off |
| Exchanging data | Flashes |

Serial Interface

Interface Specifications

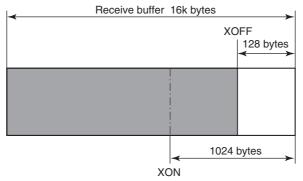
| Transfer method | Start-stop synchronization method, full-duplex com- munication | |
|-----------------|---|--|
| Signal level | RS-232C | |
| Baud rates | 2400, 4800, 9600, 19200, 38400, 57600, and 115200 bps | |
| Data length | 7 bits or 8 bits | |
| Stop bits | 1 bits or 2 bits | |
| Parity | Even, odd, or none | |
| Interface | 9-pin D-SUB female connector | |

Signal Line/Pin Assignment

| Signal code | Signal | Pin No. | Function |
|-------------|---------------------|---------|--|
| INIT | Reset | 1 | Reset printer signal line |
| RXD | Receive data | 2 | Signal line used by printer to receive data from exter- nal devices |
| TXD | Transmit data | 3 | Signal line used by printer to send data to external devices |
| DTR | Data terminal ready | 4 | Signal line used by printer to notify external devices that printer is ready to communicate |
| SGND | Signal line ground | 5 | Signal line ground refer- ence |
| DSR | Data set ready | 6 | Signal line used by external devices to notify printer that they are ready to communicate |
| RTS | Request to send | 7 | Signal line used by printer to notify external devices that the printer is read to receive data |
| CTS | Clear to send | 8 | Signal line used by external devices to notify printer that they are ready to receive data |
| VCC | +5 V | 9 | (Factory use only) |

XON / XOFF Protocol

- a Conditions for XON code output
 - Communication is possible after the power is turned on.
 - Scenario in which the receive buffer has less than 128 bytes available causing output of the XOFF code followed by the receive buffer then having at least 1,024 bytes available.
- b Conditions for XOFF code output
 - Scenario in which the receive buffer has less than 128 bytes available.



DTR Protocol

- a Conditions when DTR signal state changes to Ready (High)
 Scenario in which the receive buffer has at least 128 bytes available.
 Note that once the receive buffer has less than 1,024 bytes available causing the DTR signal to change to the Busy (Low) state, the DTR signal state remains in the Busy (Low) state until the receive buffer has at least 1,024 bytes available.
- b Conditions when DTR signal state changes to Busy (Low) Scenario in which the receive buffer has less than 128 bytes available.

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