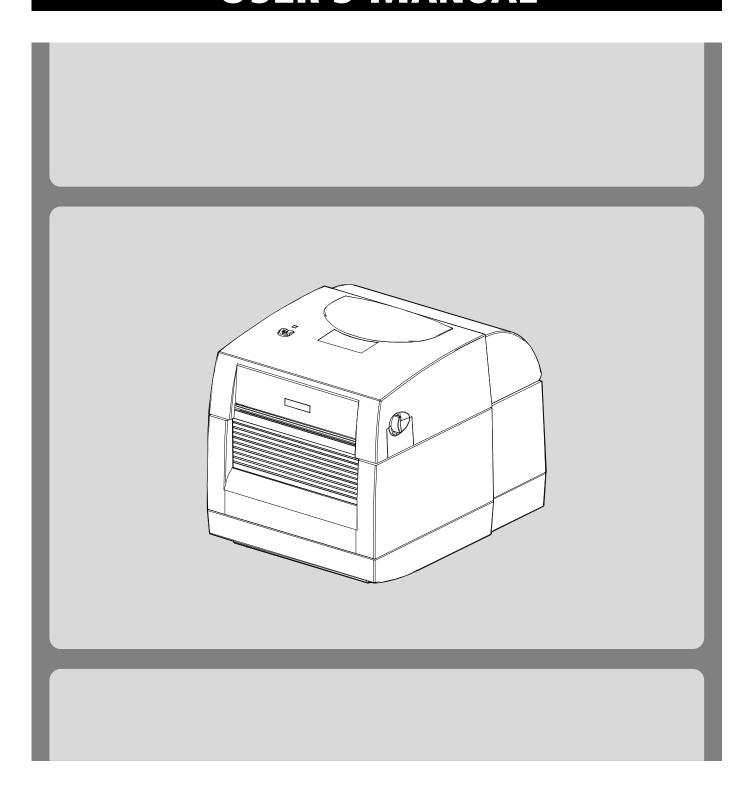
CITIZEN

Thermal Label & Barcode Printer

CL-S300

USER'S MANUAL



FCC COMPLIANCE STATEMENT FOR AMERICAN USERS

This equipment has been tested and found to comply with the limits for a CLASS A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at own expense.

EMS AND EMI COMPLIANCE STATEMENT FOR EUROPEAN USERS

This equipment has been tested and passed with the requirements relating to electromagnetic compatibility based on the standards EN 55022: 2010, CISPR 22, Class A EN 55024: 2010, IEC 61000- 4 Series EN 61000-3-2 / 2006+A1:2009+A2:2009 & EN 61000-3-3:2008. The equipment also tested and passed in accordance with the European Standard EN55022 for the both Radiated and Conducted emissions limits.

CL-S300 TO WHICH THIS DECLARATION RELATES IS IN CONFORMITY WITH THE FOLLOWING STANDARDS

EN55022: 2010, Class A / EN55024: 2010 / IEC 61000-4 Series / EN61000-3-2:

2006+A1:2009+A2:2009 / EN 6100-3-3 : 2008 / CFR 47, Part 15/CISPR 22, Class A / ANSI

C63.4: 2009 / IEC60950-1: 2005 (EN 60950-1: 2006+A11: 2009+A1:2010+A12:2011) /

GB4943.1:2011/GB9254:2008/GB17625.1:2003

C	AUTION			
•	Changes or modifications not expressly approved by the party responsible for compliance			
	could void the user's authority to operate the equipment.			

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Safety instructions

Please read the following instructions carefully.

- 1. Keep the equipment away from humidity.
- 2. Before you connect the equipment to the power outlet, please check the voltage of the power source.
- 3. Make sure the printer is off before plugging the power connector into the power jack.
- 4. It is recommended that you connect the printer to a surge protector to prevent possible transient overvoltage damage.
- 5. Be careful not to get liquid on the equipment to avoid electrical shock.
- 6. For safety and warranty reasons, ONLY qualified service personnel should open the equipment.
- 7. Do not repair or adjust energized equipment under any circumstances.

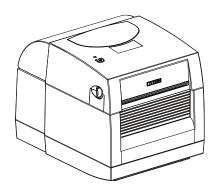
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1. Barcode printer

1-1. Box content

Please check that all of the following items are included with your printer:

- ◆ Barcode printer
- ◆ Power cord
- Quick Start guide
- ◆ CD (with BarTender label software / User's manual)



CL-S300

1-2. Specifications

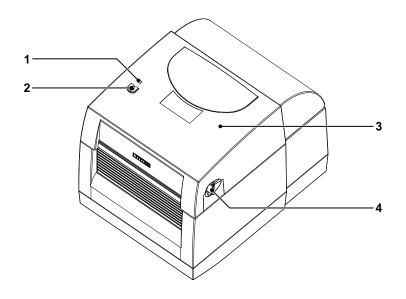
1-2. Specifications				
Model	CL-S300			
Print Method	Direct Thermal			
Resolution	203 dpi (8 dot/mm)			
Print Speed	4 IPS (102 mm/s)			
Print Width	4.25" (108 mm)			
Print Length	Min. 1.98" (50 mm)**			
Memory	64KB Flash ; 16KB SDRAM (No user storage)			
Sensor Type	Adjustable reflective sensor. Fixed transmissive sensor, central aligned			
	Types: Gap labels, black mark sensing, and punched hole; label length set by			
	auto sensing or programming			
Madia	Width: 1" (25.4 mm) Min 4.64" (118 mm) Max.			
Media	Thickness: 0.003" (0.06 mm) Min 0.008" (0.20 mm) Max.			
	Label roll diameter: Max. 5" (127 mm)			
	Core diameter: 1", 1.5" (25.4 mm, 38.1 mm)			

Software	Label design software: BarTender	
Software	Driver: Windows 2000, XP, Vista, 7, 8, Windows Server 2003, 2008 & 2012	
Interfaces	USB Device	
Control Panel	One Tri-color LED: Power (Green, Orange and Red)	
Control Parier	Control key: FEED	
Power	AC100-240V 1.6A (Max) 50/60Hz	
Environment	Operation temperature: 41°F to 104°F (5°C to 40°C)	
Environment	Storage temperature: -4°F to 122°F (-20°C to 50°C)	
Humidity	Operation: 30-85%, non-condensing.	
Humaity	Storage: 10-90%, non-condensing.	
Agency	CE(EMC), FCC Class A, CB, UL, c-UL, CCC	
Approvals		
	Length: 222 mm	
Dimension	Height: 178 mm	
	Width: 168 mm	
Weight	tht 2.0Kg ,excluding consumables	
Options	Label Dispenser	

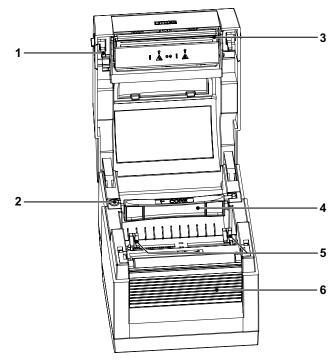
^{*}Specifications are subject to change without notice. All company and/or product names are trademarks and/or registered trademarks of their respective owners.

^{**} Minimum print height specification compliance can be dependent on non-standard material variables such as label type, thickness, spacing, liner construction, etc. Citizen is pleased to test non-standard materials for minimum height printing capability.

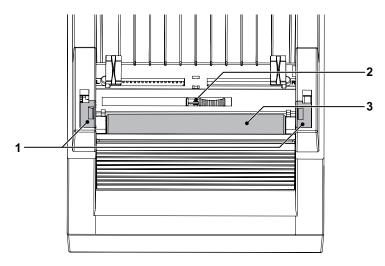
1-3. Getting to know your printer



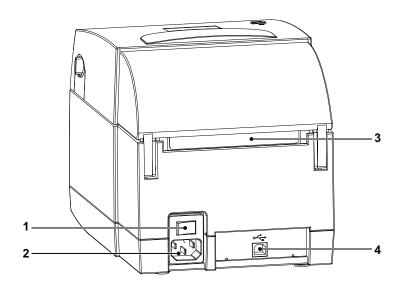
1.	LED indicator
2.	FEED function button
3.	Printer cover
4.	Release buttons



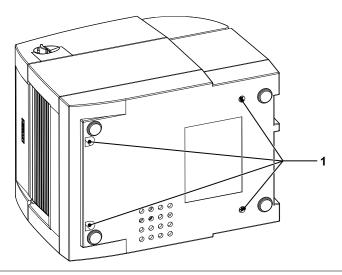
1.	Print head release lever
2.	Label roll holder
3.	Print mechanism
4.	Label supply hub
5.	Label guides
6.	Front cover



1.	Platen cover
2.	Label sensor
3.	Platen roller



1.	ON/OFF switch	
2.	Power socket	
3.	Feed slot for continuous labels	
4.	USB port	



1. Mounting points

2. Printer setup

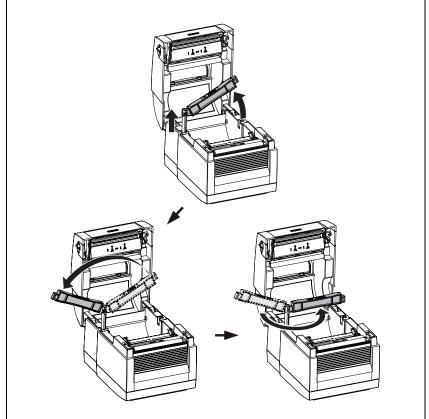
2-1. Loading the label roll

Place the printer on a flat surface and open the printer cover. 2. Lift the label roll holder and pull it out as far as possible. 3. Install the label roll on the label supply hub. 4. Now press the label roll holder down until it clicks into place. 5. Return the label roll holder to its original position.

6	Door the label		
6.	Pass the label under	<u></u>	
	the paper guides and		
	pull it forward.		
		*	
7.	Adjust the paper guides		
	to the width of the label		
	liner.		
8.	Close the printer sever		
Ο.	Close the printer cover		
	to finish loading the labels.		
	idocio.		

2-2. Installing the label roll holder

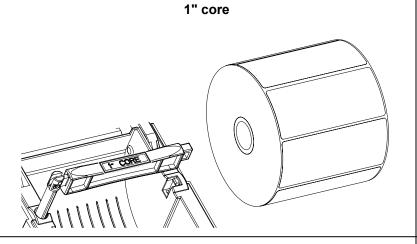
- Pull the label roll holder out as far as it will go.
- 2. Fold out the label supply hub as shown in the illustration.
- 3. Now rotate the label roll holder to return the label supply hub to its original position. Press down the label supply hub until it clicks into place.

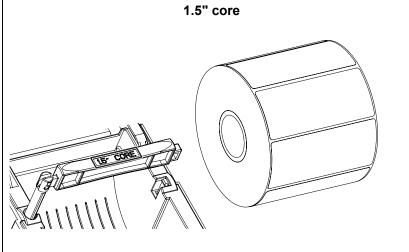


- A. To load label stock with a 1" core, the locking notch must be at the top of the label supply hub.
- B. To load label stock with a 1.5" core, the locking notch must be at the bottom of the label supply hub.



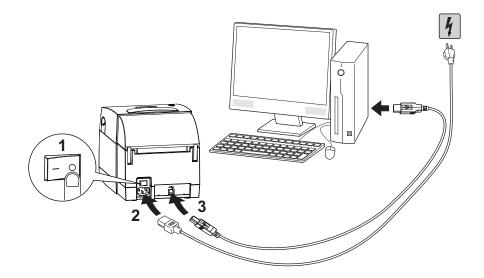
The hub is also marked on both sides to indicate the core size, as shown in the illustration.



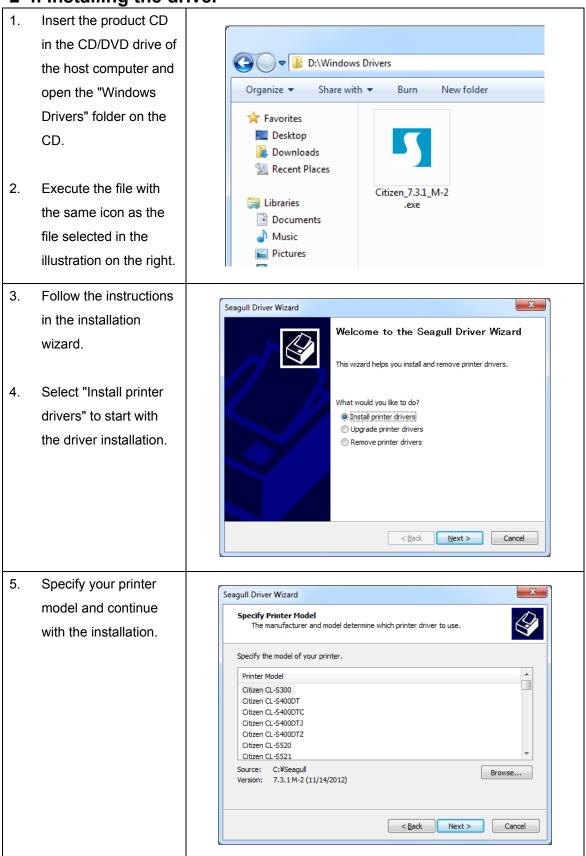


2-3. Connecting the printer to the host computer

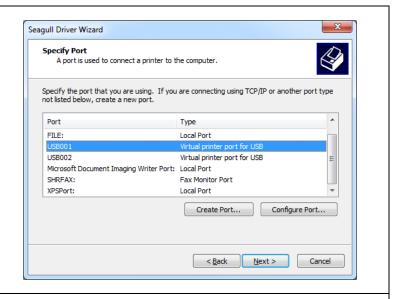
- 1. Please make sure that the printer is switched off.
- 2. Connect the power code to the printer, then connect to the electrical outlet.
- 3. Connect the printer with the host computer via the USB port.
- 4. Switch on the printer. The LED indicator should light up.



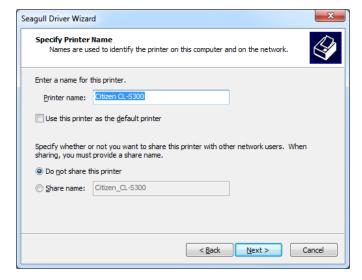
2-4. Installing the driver



Specify the port used to connect the printer to the host computer.



- Enter a printer name.
 The printer will be listed under this name in the "Printers and Faxes" folder.
- 8. Specify whether or not you want to share the printer with other network users and assign the printer a share name.
- When you have configured all the settings, a summary of the printer settings is displayed, which you should check.
- If all settings are correct, click Finish to start copying the driver files.





11. Once copying is complete, the new printer should be visible in the "Printers and Faxes" folder.



3. Operator panel

3-1. FEED button

When you press the FEED button, the printer moves the label to the defined stop position. If you are using continuous media, pressing the FEED button will move label stock until you release the button again. If you are using individual labels, pressing the FEED button will move only one label.

3-2. LED status

LED indicator	Status	Description
Green	Standby mode	The printer is ready for operation.
Orange	Error mode	The printer has detected an error.
(flashing)		(see Section 3-4. Error alerts)

3-3. Self test

The self-test function helps you find out whether the printer is functioning normally.

To generate the self-test, install media in the printer as described elsewhere.

Then switch on the printer holding down the FEED key. The printer will beep ONCE and the LED will light orange. After three seconds, the printer will beep THREE times and the self-test will be produced.

The printer prints the following test page:

CL-S300

Firmware version: V1.000

Release Date: (Jan 23 2013 19:03:20-01)

USB S/N:FFFFFFFFFF

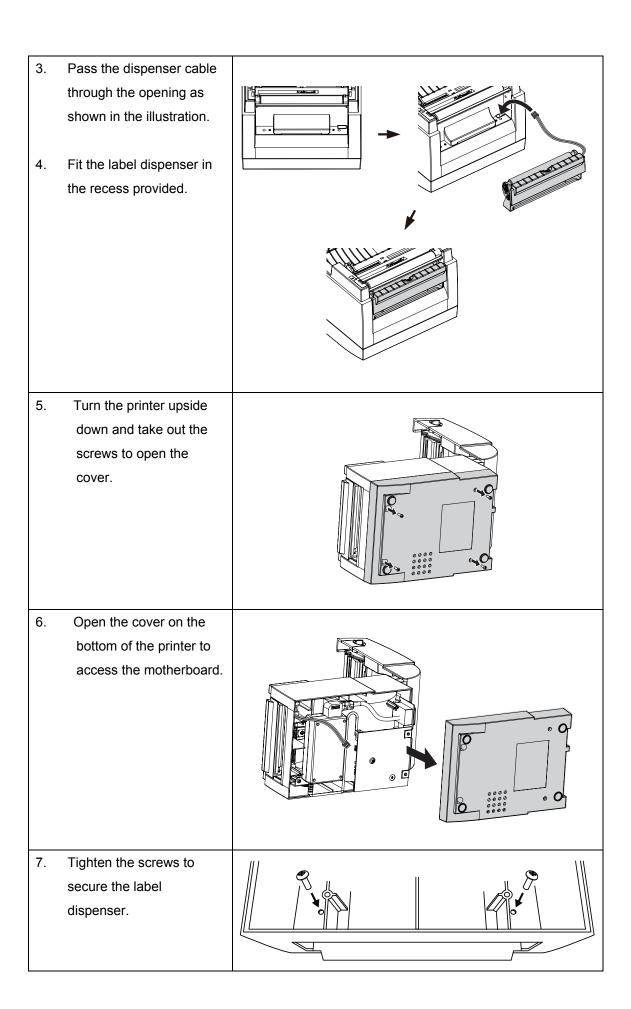
3-4. Error alerts

LED indicator	Beeps	Description	Solution
Orange	2 x 2 beeps	Media error	Possible reasons: the print medium has become trapped around the rubber roll; the sensor cannot detect a gap or black mark between the labels; there is no paper. Please reset the sensor.
Orange (flashing)	None	Print head overheat	Wait for the print head to cool off

4. Accessories

4-1. Installing the label dispenser

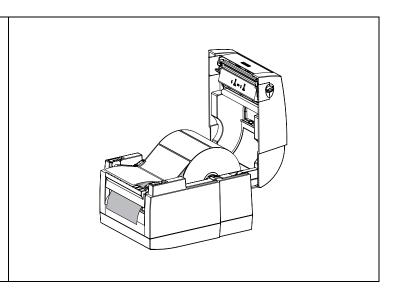
4-1.	Installing the label	dispenser
1	Label dispenser	
2	Screws (set of 2)	
[N	ote1 J Remember to switch	
off	the printer before installing	
the	label dispenser.	1
[N	ote 2] A label liner	
thic	ckness of 0.006 mm ± 10%	
and	d a weight of 65 g/m² ± 6%	
are	recommended.	2
[N	ote3】 The label dispenser	
will	take labels up to a max.	
wia	lth of 110 mm.	
1.	Place the printer on a flat	
	surface and open the	
	printer cover.	
2.	Remove the front cover.	
	rtomovo ino mont covor.	
<i>[</i> N	ote]	
	can use a coin or	
	ewdriver to open the cover.	
3016	wanver to open the cover.	



Connect the cable to the motherboard. Close the cover and tighten the screws again. 10. Place the printer the right way up again. 11. Open the dispenser by folding it out. 12. Load the labels, following the instructions in Section 2-1.

13. Remove the first label and pass the label liner over the roller and the tear-off plate. [Note] The label stock should be at least 25 mm high. [Suggestion] When using the label dispenser, set the stop position to 9 mm. 14. Pass the label liner through the printer and dispenser as shown in the illustration. 15. Fold up the dispenser cover to close it.

16. Switch on the printer and press the FEED button to measure the label stock.



5. Maintenance and adjustment

5-1. Cleaning the print head

Dirt on the print head or glue residue from the label liner may result in inadequate print quality. The printer cover must therefore always be closed. Keeping dirt and dust away from the paper or labels ensures a good print quality and a longer lifespan of the print head. Here is how you clean the print head:

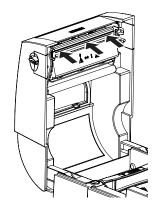
- 1. Switch off the printer.
- 2. Open the printer cover.
- To remove any label residue or other dirt from the print head (see blue arrow), please use a Citizen head cleaning pen or a soft lint-free cloth dipped in alcohol.

[Note 1]

The print head should be cleaned once a week.

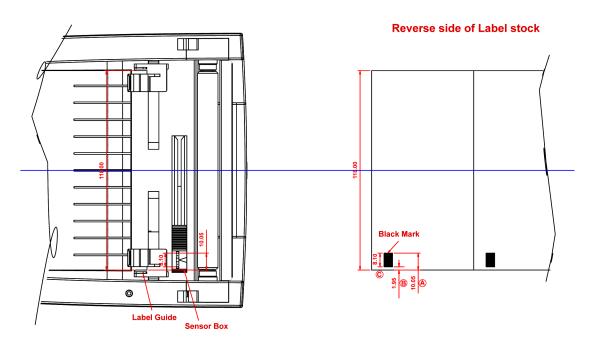
[Note 2]

Please make sure that there are no metal fragments or other hard particles on the soft cloth used to clean the print head.



5-2. Labels with black marks

If you are using black-mark label stock that has the printer's maximum feed width, the printer may not recognise the black marks because they are outside the sensor range. When using label stock with black marks, you should therefore observe the following restrictions:



For 118 mm wide label stock, the black marks should have the following positions and sizes:

- A > 10.05 mm high
- B < 1.95 mm high
- C > 8.1 mm high

5-3. Troubleshooting

Problem	Solution		
The printer is switched on but the LEDs do not	◆ Check the power supply.		
light up.			
The LED lights up orange (ERROR) and	◆ Check whether is an error in the software		
printing is interrupted.	settings or the print commands.		
	Replace the print medium with a suitable		
	medium.		
	 Check whether there is a label jam. Check whether the label stock is finished. 		
	Check whether the print mechanism is		
	closed (the print head is not positioned		
	correctly). Check whether the print medium is		
	covering the sensor.		
The label stock passes through the printer but	Please make sure that the label stock is		
no image is printed.	loaded the right way up and that it is		
The image is printed.	suitable material.		
	 Choose the correct printer driver. 		
	 Choose the correct label stock and a 		
	suitable printing mode.		
The label stock jams during printing.	Clear the paper jam. Remove any label		
The last energy and adming primaring.	material left on the thermal print head and		
	clean the print head using a soft lint-free		
	cloth dipped in alcohol.		
The label stock does not move correctly and	◆ Check whether any label material is stuck		
there is no printed image on some parts of the	to the thermal print head.		
label.	◆ Check for errors in the application		
	software.		
	Check whether the starting position has		
	been set incorrectly.		
	◆ Check the power supply.		
There is no printed image on part of the label.	◆ Check the thermal print head for dust or		
	other dirt.		
	◆ Use the internal "CZ SELFTEST"		
	command to check whether the thermal		
	print head will carry out a complete print		
	job.		
	◆ Check the quality of the print medium.		

The printed image is positioned incorrectly.	Check whether there is paper or dust		
	covering the sensor.		
	◆ Check whether the label liner is suitable.		
	Please contact your dealer.		
	◆ Check the paper guide settings.		
A label is missed out during printing.	◆ Check the label height setting.		
	◆ Check whether there is dust covering the		
	sensor.		
The printed image is blurred.	◆ Check the darkness setting.		
	◆ Check the thermal print head for glue		
	residue or other dirt.		
The peeler is not functioning correctly.	◆ Check whether there is dust on the label		
	dispenser.		
	◆ Check whether the label stock is		
	positioned correctly.		

[Note] If any problems occur that are not described here, please contact your dealer.

Appendix

A. Printer interfaces USB port

Connector type : Type B

Pin No.	1	2	3	4
Function	VBUS	D-	D+	GND

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