

Card Reader ‘HCCRS-2000’

UserManual



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Product descriptions

1. HCCRS-2000 Introduction

- A retractable reader built to operate an American laundromat machine.
- If you tag an RF card with a charged U.S. currency, a set amount will be deducted.

1) Store selection

- Only RF cards sold and charged in store kiosks can be used.

2) Displaying the amount

- When waiting, the set amount is always marked on the display, and when in use, it is marked separately.

3) Wi-Fi interlock

- Wi-Fi on the router allows you to set the amount and functionality in the kiosk.
- Store sales history in kiosks when sales occur

2. Standard

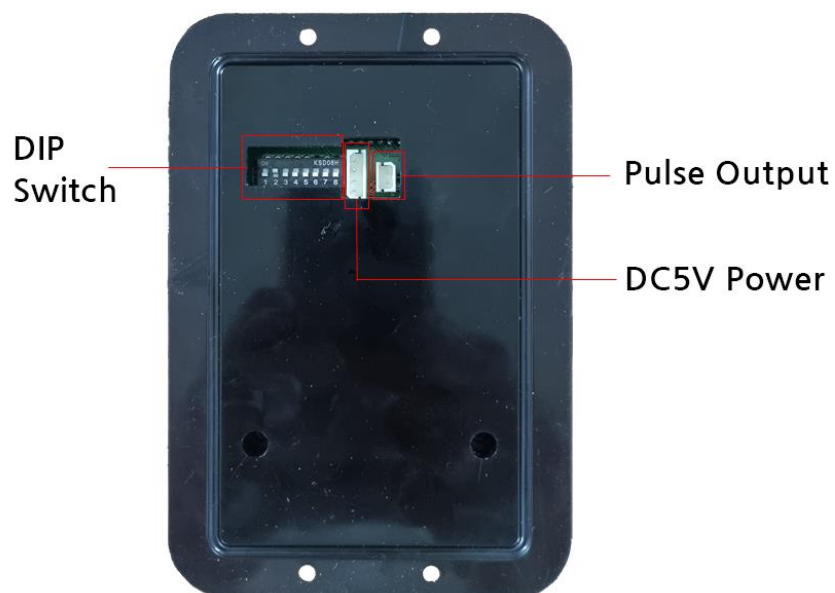
- Model name : BRS-2000
- Power : DC 5V, 0.5A
- Display : Seven-segment display
- Output : Pulse NO & NC
- Use card : 13.56 mhz / ISO-14443A
- Size and Weight : 98.5(W) x 142.5(D) x 25(H) mm, 150g

The names of each part

3. Placement chart and name



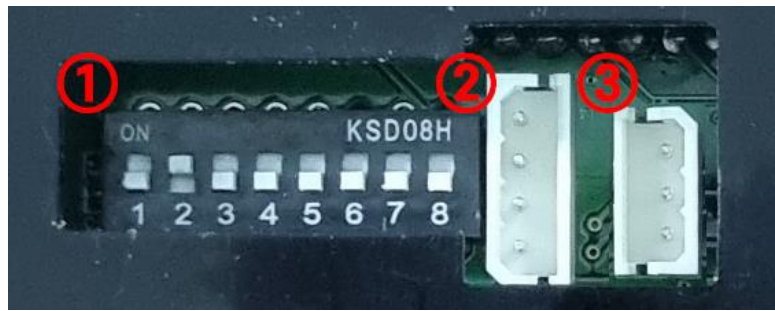
- Front -



- Back -

How to use

4. Interface



- DIP switch and Connectors -

① DIP Switch Setting

- 1) You can set the number by manipulating the dip position on the back of the reader.
- 2) There are eight switches from 1 to 8, and it is ON when it is raised and OFF when it is lowered.
- 3) For more information on setting the number, please refer to the file "Device Positioning.PDF" provided separately
- 4) You can install up to 1 to 255 units in one store.

② Power Connect

Pin No.	Signal Name	Wire Color
1	None	-
2	None	-
3	Ground	Black
4	VCC(5V)	RED

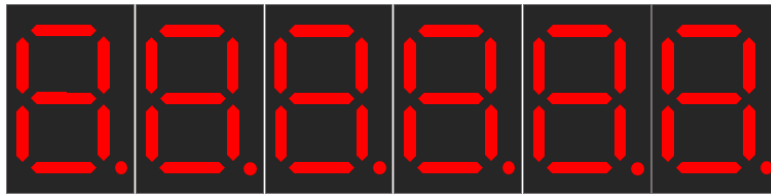
- 1) Connect the DC5V adapter cable 4P to the power connector on the back of the reader

③ Pulse Connect

Pin No.	Signal Name
1	NO
2	COM
3	NC

- 1) A connector that connects the pulse signal of the device to be connected to the reader.
- 2) For NO contacts, connect cables 1 and 2 to the instrument start terminal.
- 3) For NC contacts, connect cables 1 and 3 to the instrument start terminal.
 - NO Contact: If the line 1 and 2 are not connected and paid, it will be connected.
 - NC Contact: If you pay with lines 1 and 3 connected, the connection will be disconnected.

5. Display



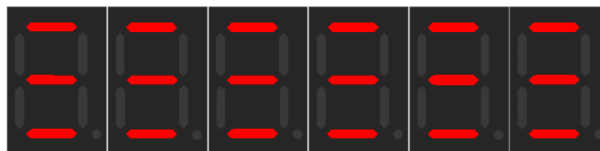
- Display -

- The reader's display displays the status of the reader.
- Usually, the reader displays the set amount to increase the convenience of customers.



- Reader standby set to \$2 -

- It will be displayed on the display as below while in use
, and it will not be deducted even if you tag the card.



- Repeated action of the phrase when operating -

- If Wi-Fi is not connected, the dot on the right end will continue to flicker and inform you.
- Prices and functions set on the device can be used even if Wi-Fi is cut off

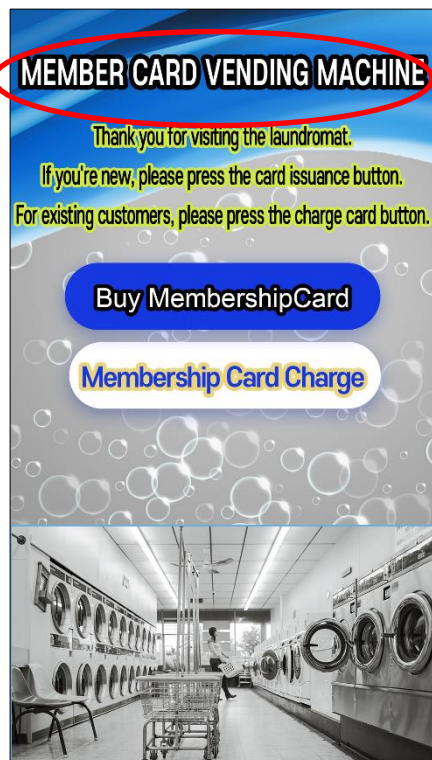
6. Router Settings

- It doesn't matter which company's products are used for the router. (Only Wi-Fi in the 2.4G band can be connected.)
- You must change the SSID and password of the wireless router to use it.
- Please refer to each router manual for SSID and password setting.
- SSID: **HCKOREA1, HCKOREA2, HCKOREA3,, HCKOREA9**
If the store is large and you use multiple routers, please change the SSID as above.
- Password: **123456789a**
- Internal Network IP: 192,168.200.1 Setting
- Please refer to the separate "Router Settings.PDF" file for instructions on how to set up a router.

How to use the program

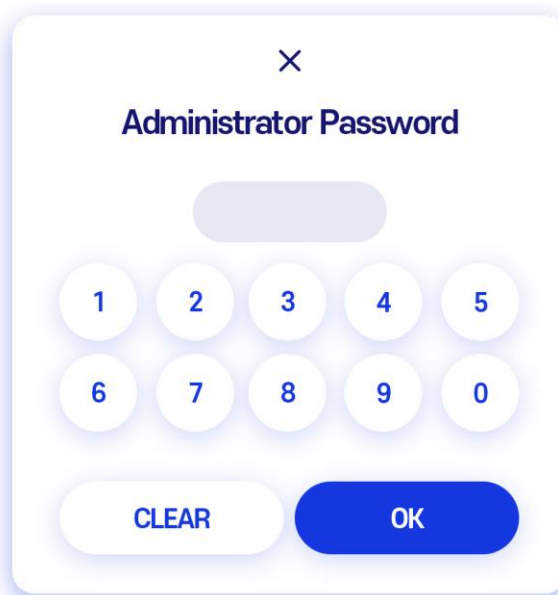
7. Administrator Settings

1) How to enter management mode



Enter management mode

- Touch the top of the screen 4 times
(Administrative mode can only be entered on the main screen)
- Show administrator password entry pop-up



- Enter password: Enter the initial password (1234) and press the OK button to enter management mode



- Machine Setting Press the button to go to the setting screen

2) Machine Setting

- Ability to select and manage the type of product
- The ability to enter or modify the price of a product
- Set the number and length of pulses generated when tagging cards
- Set wait time after card tag (debit invalid time)
- Increase convenience by setting the number of products you want to create

setting screen

(1) Read Button

- It's a button that fetches information about a product that's already been created.
- Press the button to retrieve the product information created at the bottom.

ID	TYPE	PRICE	Count	Width	Op Time	IsUse	Alive	Etc
1	Washer 1 A	2.25	1	50	20	1	25-09 16:55:48	/002/DR/ /◆◆G◆/ 11
2	Washer 1 A	2.25	1	50	20	1		
3	Washer 1 A	2.25	1	50	20	1		
4	Washer 1 A	2.25	1	50	20	1		
5	Washer 1 A	2.25	1	50	20	1		
6	Washer 1 A	2.25	1	50	20	1		
7	Washer 1 A	2.25	1	50	20	1		
8	Washer 1 A	2.25	1	50	20	1		
9	Washer 1 A	2.25	1	50	20	1		
10	Washer 1 A	2.25	1	50	20	1		
11	Washer 20 A	5.00	1	50	0	1		
12	Washer 20 A	5.00	1	50	0	1		
13	Washer 20 A	5.00	1	50	0	1		
14	Washer 20 A	5.00	1	50	0	1		
15	Washer 20 A	5.00	1	50	0	1		
16	Washer 20 A	5.00	1	50	0	1		
17	Washer 20 A	5.00	1	50	0	1		
18	Washer 20 A	5.00	1	50	0	1		
19	Washer 20 A	5.00	1	50	0	1		
20	Washer 20 A	5.00	1	50	0	1		
21	Washer 20 A	5.00	1	50	0	1		
22	Washer 20 A	5.00	1	50	0	1		
23	Washer 20 A	5.00	1	50	0	1		
24	Washer 20 A	5.00	1	50	0	1		

- You can modify the product by selecting the product you want to modify.

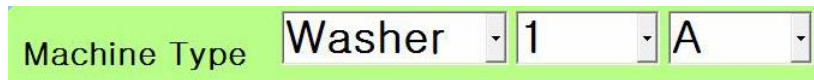
ID: number / Type: Management / Price: Price / Count : Tag Pulse / Width: Pulse Width

/ Op Time: Waiting time (Minute [M]) / IsUse: Use status / Alive: Connected Time / Etc: Simple registration information

(2) Add Button

- Features used to add new products

(A) Machine Type

The interface shows a green header bar with the text "Machine Type". Below this, there are three dropdown menus. The first dropdown is set to "Washer", the second to "1", and the third to "A".

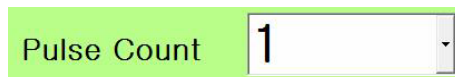
- Set the type of product. If the product is of the same model, it is set at once.
- You can choose a washer or dryer.
- You can set the detailed type from 1 to 100 A to Z.

(B) Price

The interface shows a green header bar with the text "Price". Below this, there are two dropdown menus. The first dropdown is set to "5" and the second to ".00".

- Set the price of the product.
- You can price them in dollars and quotas.

(C) Pulse Count

The interface shows a green header bar with the text "Pulse Count". Below this, there is a single dropdown menu set to "1".

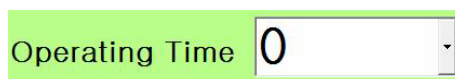
- You can determine how many pulses to generate when tagging the card.
- 1 pulse generation when set to 1 and 10 pulses when set to 10.

(D) Pulse Width(ms)

The interface shows a green header bar with the text "Pulse Width (ms)". Below this, there is a single dropdown menu set to "10".

- You can determine the length of the pulse generated when tagging the card.
- You can raise it to a minimum of 10 units.
- It can be specified as the optimal pulse length to be recognized by the installed device (100 ms on average)

(E) Operating Time

The interface shows a green header bar with the text "Operating Time". Below this, there is a single dropdown menu set to "0".

- After tagging the card, you can set the time when the product works.
- Tagging the card for a set amount of time does not deduct it and will inform the customer by indicating it is working
- Deduct the amount every time card is tagged when set to 0, and not deducted for 30 minutes when set to 30
- Display the amount in standby mode at the end of the set time

(F) Machine Count

The interface shows a green header bar with the text "Machine No". Below this, there are two dropdown menus. The first dropdown is set to "2" and the second to "11".

- You can decide how many products you have previously set.
- If you set the number and press the Add button, the product will be registered with the set number.
- If there are 10 same products, select 1 to 10 and press the Add button to create 10 products.

(3) Update Button

- Features used to modify product information

(A) Machine Type batch modification

ID	TYPE	PRICE	Count	V
1	Washer 1 A	2.25	1	5

- When you select the product you want to change, the information for the selected product is loaded into the top settings window.
- Enter changes such as Price, Pulse Counter, and so on.

☒ Same Model

Setting (Set when checked, not set when unchecked)

Update

Press the button to collectively change the product in the selected TYPE.

Save

Press the button to save the changes.

(B) individual modification

ID	TYPE	PRICE	Count	V
1	Washer 1 A	2.25	1	5

- When you select the product you want to change, the information for the selected product is loaded into the top settings window.
- Enter changes such as Price, Pulse Counter, and so on.

☐ Same Model

Setting (Set when checked, not set when unchecked)

Update

Press the button to change only the selected product.

Save

Press the button to save the changes.

(4) Save Button

- Features used to save changes.

- If you make any changes and exit the screen without pressing the

Save

button, all changes will be ignored.

(5) Delete Button

- Features used to delete registered goods.

(A) Machine Type Bulk Deletion

ID	TYPE	PRICE	Count	V
1	Washer 1 A	2.25	1	5

- When you select the product you want to delete, the information for the selected product is loaded into the top settings window.

☒ Same Model

Setting (Set when checked, not set when unchecked)

Delete

Press the button to delete the product in the selected TYPE collectively.

Save

Press the button to save the deleted content.

(B) Delete individual

ID	TYPE	PRICE	Count	V
1	Washer 1 A	2.25	1	5

- When you select the product you want to delete, the information for the selected product is loaded into the top settings window.

☐ Same Model

Setting (Set when checked, not set when unchecked)

Delete

Press the button to delete only the selected product.

Save

Press the button to save the deleted content.

3) Machine Sale



- In System Settings, you can click the Machine Sale button to see the sales of the product.
- Sales are displayed in the order of time when sales were generated.
- It has the ability to save sales in Excel and delete stored sales.



- ① Select date check box (default: same day)
 - Display the history list of the day when you change
- ② Press the button to convert the inquiry to Excel in item 3
 - Show a pop-up asking if you want to delete sales while converting to Excel
- ③ Display sales in order of time when sales were generated
- ④ Press the button to exit the daily sales screen

8. FCC

1) FCC Compliance Statement

The device complies with Part 15 of the FCC Rules. Operating conditions are as follows.

There are two conditions.

(1) This device may not cause harmful interference.

(2) The device must allow any interference received, including interference.

This can result in unwanted actions.

2) FCC Interference Statement

The equipment has been tested and confirmed to comply with the restrictions on Class B digital devices under Part 15 of the FCC Rules. These restrictions are designed to provide reasonable protection from harmful interference in residential installations. The equipment can generate, use, and release radio frequency energy, and if not installed, it can be used as follows.

Instructions can cause harmful interference in wireless communication.

However, there is no guarantee that no interference will occur in any particular installation. If this equipment causes harmful interference in radio or television reception (it can be checked by turning it off and on), the user is encouraged to correct the interference by one of the following actions:

- Redirect or rearrange the receiving antenna.
- Increase the spacing between the equipment and the receiver.
- Connect the equipment to an outlet in a circuit different from the circuit to which the receiver is connected.
- Ask your seller or experienced radio/TV technician for help.

3) FCC caveats

Any changes or modifications not expressly approved by the parties responsible for compliance may disqualify you from operating this equipment. This transmitter shall not be located or operated with any other antenna or transmitter.

4) Exposure

This product is used at a distance of at least 20 cm from the human body.

Before I ask you about the A/S..

1. Power Related

< The power won't turn on. >

- The power of the RF reader requires a voltage of DC 5V. If the adapter is defective, it may not work, so try replacing the power adapter..

2. Related to RF Card

< The card isn't tagged. >

- If the reader is powered on but cannot be tagged, please check the RF card first. The reader can only use cards sold in the store. It will not be recognized if you use a card from another store..
- Make sure the card is not damaged, RF card will not be recognized if there is any hole or damage.

3. Settings related

< The price doesn't change. >

- If you changed the price in the kiosk but it doesn't change in the reader, please check the Wi-Fi connection. If the dot on the right end of the reader flashes quickly, there is no Wi-Fi connection. Please install an additional router or check the settings.

< The amount has been deducted, but it doesn't work. >

- Please check the pulse length in the settings. Most products are optimized for 100ms, but sometimes they are shorter or longer. It can be adjusted in units of 10ms, so please change the settings to check.