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Note Dispenser



___ Installation Guide ____

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NDE1000.

1. Introduction

1-1. Overview

NDE1000, a compact size with up to 1000 banknotes capacity, is designed able to dispense versatile notes released from worldwide countries via a built-in study mode. With LCM display and operation key-pad, NDE1000 is very easy to use for the user no matter on settings, operations or troubleshooting.

1-2. Features

- A wide-range voltage power-input.
- Easy and convenient firmware download via USB pen drive.
- Easy operation and settings via digital display with key pad.
- Security lockable cashbox.
- Compact design to save installation space.
- Identify and dispense worldwide currencies through a built-in study mode.

2. Specification

General Dispensing Speed Approx. 2.5 notes per second Interface Pulse, RS232, Hopper, ICT Protocol Electrical Power Source DC12~24V

Power Consumption	DC 12V- Standby : Approx. 0.1A, Operation: Approx. 1.8A, Maximum: Approx. ≤4.5A
	DC 24V- Standby : Approx. 0.1A, Operation: Approx. 1A, Maximum: Approx. ≤3.5A
Operation Environment	Operation Temperature: 0°C~55°C Storage Temperature: -30°C~70°C
Mechanical	
Bill Capacity	Suggested capacity around 500 notes
Bill Accepted Width	(W) 62~77 mm (L) 120~160 mm (T) 0.08~0.125 mm
Weight	Approx. 5kg
Installation	Indoor

3. Packing List

Main

Note Dispenser

Accessory

Harnesses: Refer to page. 6 NDE1000 Installation Guide

4. Dimension

Standard











40[1.57]

JAE connector (Optional)











Please follow instructions below before installing NDE1000: [L]: the distance from the note mouth: 150mm or above. [L1]: the distance from NDE1000 bottom: 150mm or above. [L2]: the distance from NDE1000 upper: 200mm or above.

5. Installation

5-1. Harness Application

5-1 TABLE 01

Interface	Used Voltage	Usage	Harness	Page
RS232/ Hopper/ Pulse			WEL-RBD41	7
Hopper/ Pulse	12-241/ DC	Power	WEL-RBD42	8
RS232/ Hopper/ Pulse	12~24V DC	A Data Comm.	WEL-RBD46(optional)	9
RS232/ Hopper/ Pulse			WEL-RBD64(optional)	10

*Data Comm. : Data Communication.

5-1 FIG.01



5-1 FIG.02



5-1 FIG.03



		5-1 FIG.04
Interface	Used Voltage	Usage
RS232/ Hopper/ Pulse	12~24V DC	Power &*Data Comm.
	WEL-RBD6 (Optional)	4
JAE DR-20-4PC		TMT 2*6
JAE DR-20-4PC BLACK VIE	D) w	24681012 1357911 TMT 2*6 BACK VIEW
PIN 1- GREEN	EMPTY PIN .PAYOUT PIN PC-RX PIN GND PIN V-DC24V PIN ELAY_NO PIN AY_COM PIN PC-TX PIN GND PIN V-DC24V PIN	1- REDDC12V-DC24V 2- ORANGDC12V-DC24V 3- BLACKGND 4- BROWNGND 5- GREEN

5-1-1. I/O Circuit



HOPPER/ PULSE I/F Interface.



5-2. Key Function



5-2 FIG.01-1

Key Setting	Function
When the power is ON, the LED display shows Version No. For two seconds.(Ex. 0.10→00.7→003.) Pressing FAC Key 2 times	Enter into [Set up] Mode
	Enter into first Item ID number set up (ex.C00~C99).
	Enter into second Item: set up regular dispensing quantity (ex.E01~10).
Enter into [Set up] Mode Pressing FAC Key select item Pressing Start Key setting(+) Pressing Clear Key setting(-)	Enter into third item set up: Interface selection. When DIPSW SW1 OFF and SW2 ON, then IF0: Pulse IF1: Pulse and ICT104U IF2: ICT104U
	Enter into fourth item set up: Interface selection. When DIPSW SW1 ON SW2 ON, then gE0: Hopper gE1: Gamming
	Enter into fifth item set up:Face value ratio between banknote and coins A01: 1 coin face value = 1banknote face value A02: 2 coin face value = 1banknote face value Maximum A99
	Enter into sixth item set up: rc Pressing Start Key, clear the warning of cleaning required, and return to Standby Mode.
	Enter into seventh item set up: Start key lock or unlock. SL0: unlock SL1: lock



5-2 FIG.01-2

Key Setting	Function
-	Enter into eighth item set up: Clear key lock or unlock. cL0: unlock cL1: lock
	Enter into ninth item set up: Bill value: cH1~cH8.
	Enter into tenth item set up: Judge function selection Jn0,Jn1(default)
Enter into [Set up] Mode Pressing FAC Key select item	Enter into eleventh item set up: Width of Pulse for credit signal. cr1: 50ms cr3: 150ms cr2: 100ms cr4: 200ms CREDIT_RELAY_NO normal open CREDIT_RELAY_NO normal close
Pressing Start Key setting(+)	Enter into twelve item set up: Disable/enable width of
Pressing Clear Key setting(-)	Pulse for payout signal.
	Pc0: Disable width of Pulse for payout signal Pc1: Enable width of Pulse for payout signal
	Enter into thirteen item set up: Width of Pulse for payout signal. PL1: 50ms (active low) PL2: 100ms (active low) PL3: 150ms (active low) PAYOUT



5-2 FIG.01-3

Key Setting	Function
Enter into [Set up] Mode Pressing FAC Key select item Pressing Start Key setting(+) Pressing Clear Key setting(-)	Enter into fourteen item set up: r01: 1Pulse/ payout 1 bill r02: 1Pulse/ payout 2 bills maximum r50
	Enter into fifteen item set up: Banknote Distinguish selection. bo0: normal banknote bo1: banknote with large window
	Enter into sixteen item set up: EP0~EP1 Need a password to use the button or not. EP0: No password required to use the button EP1: Password required to use button
	Enter into seventeen item set up: S Pressing Start Key, Save changed setup, and return to Standby Mode.



5-2 FIG.02

Button lock instructions	Description
Button lock	Lock the button to avoid misoperation, you need to unlock it to use the button function according to the table below.
Password to unlock button	Press 2 3 1 1 in sequence
Unlock time limit	< 5 seconds
The time the button can be used after unlocking	10 seconds Enter into [Set up] mode is not limited by 10 seconds.
Key Setting	Function
Learning Mode Pressing FAC Key 3 seconds	Make sure there are at least 20 banknotes inside of NDE1000, and enter into [Learning] Mode Return to Standby Mode when Learning finished.
Standby Mode Pressing Start Key 3 seconds	Regular dispensing
Standby Mode Pressing Clear Key 3 seconds	Clear the number of Non-automatic dispensed.
Pressing 1 and Clear key	Reset NDE1000/ Escape [Set up] Mode.
After clearing of fault Pressing Clear Key 2 times	Clear error code.

Display screen would show the number how many banknotes dispensed by manual Total three digits shown on the screen, digits, tens, hundreds.

It would show the point"." in case of the number over 999,

For example, "999." means 1999, "99.9" means 2999, "9.99" means 3999.

Please check the trouble shooting table when NDE1000 have any error occured.(Refer to 8-1. Error Messages)

5-3. DIP Switch Setting

You can see a DIP-SW at the backside of NDE1000 for you to set up, for example, the interface, function settings, etc. Please check the dip-switch setting manual for details.



5-4. Software Download and Upgrade

5-4-1. ICT FP-004 Programmer Firmware Upgrade

There are three ways to download and upgrade the software to NDE1000. Please contact to purchase FP-004 and refer to FP-004 user guide for software upgrade information.



Please turn off the power of NDE1000 before connecting the FP-004.

5-4-2. USB Pen Drive Firmware Upgrade



Step 1.

Please load the software(**NDEX#SXXXXIBBBBXXXXX.bin**) into USB pen drive through PC.

Step 2.

Turn on the power after connecting the USB pen drive to the USB Port of NDE1000.



Unplug USB pen drive and then NDE1000 will automatically back to standby mode.

5-4-3. ICT MTB Firmware Upgrade



Step 2. Use the download cable WEL-RHP57 connecting to PC.



Step 3. Please load the software(NDEX#SXXXXIBBBBXXXXX.bin) into MTB through PC.

Step 4. Turn on the power after MTB is connected with NDE1000.



Step 5.	-					
It shows from	ŀ	•	•	to	UnP	means the download finished.

Unplug MTB and then NDE1000 will automatically back to standby mode.

6. Operation

6-1. Unusable Note

Mixing up different denominations or currencies may cause double banknotes output due to different banknote form and material. In addition, the following type of notes are prohibited.

	-	6-1 TABLE.01
Туре	Diagram	Solution
Curled or wrinkled notes		Unfold the note
Broken notes	Hole Damage	Prohibited

NDE1000_____

		6-1 TABLE.01-1
Туре	Diagram	Solution
Curled or wrinkled notes		Prohibited
Taped notes	Таре	Prohibited
Dirty notes	Stain Contamination	Prohibited

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6-2. How to Fill Notes

1. Open the upper cover, loosen a screw and take the fixing plate out.



2. Move the plates to the both sides, and fix the banknote plate on the back side.





4. Plug in the fixing plate and fasten a screw.

6-3. Low Level Adjustment

To open the cover, you can set up the threshold of low capacity with the number of 15/35/55.

Ex. Adjust the plate to select "35" of the threshold value, and the display would show LOB for low-level alert when banknotes lower than approx.35 notes.



7. Maintenance

To make sure the machine works normally, please be sure to clean up NDE1000 after some period of time.

Please follow the steps below:



2. Use a screwdriver to loose 5 screws and disassemble the front cover. Be sure to secure the cables connections during cleaning up the device.



	Maintenance Notice (Any improper maintenance will result invalid warranty.)		
Alcohol	Recommended	Mild, non-abrasive, soap water.	
	DO NOT USE	Organic solvent , Alcohol, Volatile liquid.	

8. Troubleshooting

8-1. Error Messages

Code Diagram Solution Status 888 FrE [888] AtE Component failure Contact ICT for help. 888 dAE 888 FLE 8.8.8 Replace the power supply with LoV Low voltage standard voltage noted in the specification then the error code BBBHIV High voltage will disappear. 888 IrE Sensor problem Contact ICT for help. Please fill in banknotes, and 8.88 press the Clear key twice then Out of banknote nob the error code will disappear. Banknote(width/length) [c BB]cHA abnormal Clean out the dust inside of NDE1000, and press the Clear 8.8.8 Double notes db key twice then the error code cancelled 888 HAL Half note

8-1 TABLE 01

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If the error can not be solved after corrective actions or happen again, please contact ICT for technical support.

8-1 TABLE 02

Code	Diagram	Status	Solution
Jan	888	Banknote jammed	Clean out the dust inside of NDE1000, and press the Clear key twice then the error code cancelled.
Lob	808	Low level alert	Please add in banknotes.
LrE	8.8.8)	Learning error	Make sure there are at least 20 banknotes inside NDE1000, and try the study mode again.
cir	8.8.8.	Alert to clean	Please follow step 7 to clean NDE1000, entry setting mode, Press the FAC key several times until the "rc" item is displayed, then press the Start key, then the error code cancelled.
doc	808	Manual dispense exceed max. number recorded (3999 notes)	Keep pressing the Clear key for three seconds and the figure returns to zero.
E01	888	Motor problem	Contact ICT for help.
E12	8.8.8	Motor problem	Contact ICT for help.

If the error can not be solved after corrective actions or happen again, please contact ICT for technical support.

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