

USER MANUAL



Originator	The 2nd R&D department	Issued date	Apr 17, 2009
Country		Document version	Ver 3.0

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1. Introduction

1-1 Introduction

Thank you for purchasing CTcoin's products.

This instruction manual contains the [operating procedure](#) and [precautions](#) for using this product. To ensure the efficient operation of our products, please read this instruction manual thoroughly before use.

After reading this Instruction Manual, [keep](#) it handy for future reference.

- EAGLE 1000 can [recognize and add banknote](#) a maximum of [1,000note/min.](#)
- EAGLE 1000 can do continual adding [without stopping during counting.](#)
- EAGLE 1000 can detect for the latest currency through [prompt updating.](#)
- EAGLE 1000 can extract and [print serial number](#) as speed of 1,000 notes/min, in case of EUR and USD.
- [Recognition rate](#) for spoiled banknote is [even more higher](#) than other counting machines.
- EAGLE 1000 can [add and sort for mixed denomination](#) according to kind of denomination and face orientation.

1-2 Specification

- [Six Processing Modes](#); Simple & Easy to Operate
- [Compact & Elegant Design for Homan Technology](#)
 - EAGLE 1000 is so light that anyone can carry it easily.
 - EAGLE 1000's compact and elegant design is so familiar to atmosphere of office.
- [Fake notes\(Counterfeits\) Detection](#): There is ability of detection to use MG,UV FL, UV, IR transmit sensor, thickness sensor.
- [Non-stop Continuous Operation](#): Working efficiency can rise because of non-stop continuous operation.
- [Interface](#)
 - EAGLE 1000 can be used easily through connecting external interface such as printer and computer.
 - Easy of S/W Upgrade: Upgrading software can be easily.
- [Display & Key](#)
 - Display of mart can be recognized easily.
 - Convenient display and key pad.

Feed System		Roller friction type	
Dimension		321(mm)*355(mm)*334(mm)	W*L*H (mm)
Note Size		50*100 , 100*190(mm)	
Batch Mode		Value Batch Mode	
		Count Batch Mode	
Hopper Capacity		500 notes	
Output Pocket Capacity	Reject	100 notes	
	Stacker	250 notes	
Connectivity		USB, RS-232	
Sensors		MG, UV, IR, CIS, thickness sensor	
Counting Speed		1,000 notes per min.	
		1,000 notes per min. (In sorting speeds)	
Weight		16.0Kg	
Power		AC 90-240V 50/60Hz	
Fitness		10 level (ATM - Fit - Unfit)	
		Thickness, Stain, Graffiti detection	
		Breakage (Dog eared, tears, hole, Size error) detection	

2. Precaution

2-1 Warning

This product is developed to provide a service of counting banknote only.

MyyoungSung is not liable to any damages caused by the use of this product for other purpose than above intended purpose without our permission, or any damages caused by the modification conducted by any other person than Myyoung Sung employee or authorized subcontractor.

For installation and transportation of this product, please consult an authorized distributor or sales representative.

- The contents of this manual are subject to change without notice.
- Myyoung Sung makes continuous efforts to improve products.
- Therefore, the actual product may differ from the contents of this manual.
- Myyoung Sung shall not be responsible for any damages to a third party's patent or other right resulting from use of the data contained in this manual.
- No part of this manual may be reproduced for commercial purpose without our permission.
- This product is developed for the use in the countries described in the specifications.

It cannot be used in other countries due to different power specifications and safety standard.

※ warning ※

This is Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

2-2 Installation Space

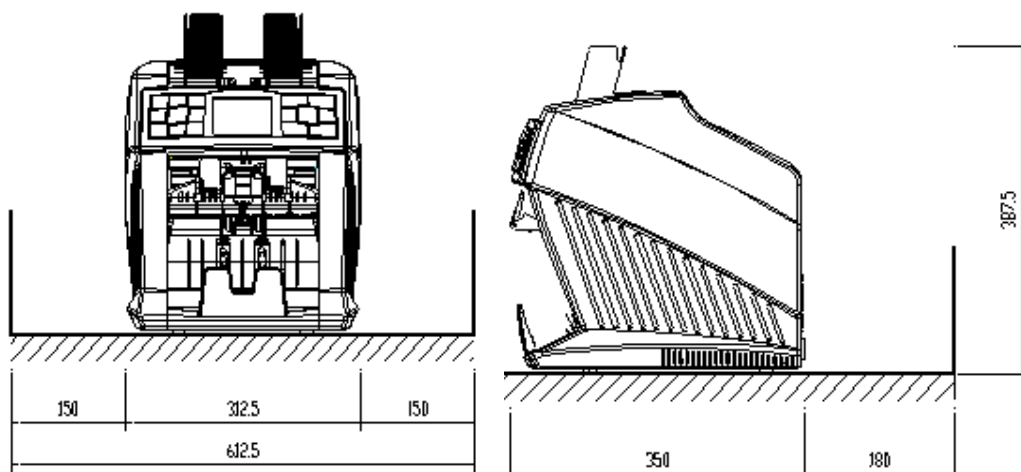
For moving or installing this product, request our sales shop or our designated sales agent nearest to you to perform the work.

- This product is exclusively for indoor use. Do not install outdoors.
- Do not install in places where the flooring cannot support the product load or unstable places with slanting or uneven flooring.
- Install where sufficient daily administration over the product may be made.
(Beware of intentional mischief)

※ Installation Space ※

Allow space from peripheral walls and the product as shown in the following Figure.

Allow sufficient operation space for filling of bills, opening and closing of doors and covers and also allow space necessary for maintenance.

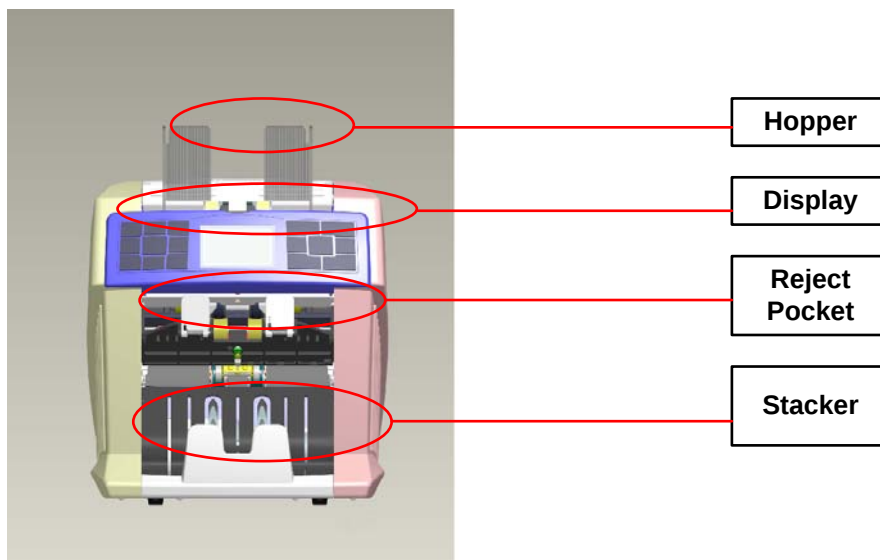


2-3 Observe the following steps in order to prolong the life of the product

- Avoid installing where the product will be subject to direct sunshine.
- Avoid installing near stoves or heaters by which the temperature of a part of the product may rise or places at the windy side from air conditioners or vents.
- Avoid installing in places with much dust or vibration generating.
- If a cold place in which the product is installed is suddenly heated, dew may accumulate inside the product.
- Use the product in the following temperature and humidity range.
 - Temperature 0–35℃(32–95F)
 - Humidity 20–90% (without dew condensation)
- Do not place heavy objects on top of the machine, or do not give any heavy impact to the machine.
- When opening or closing doors, covers, or inner parts, do not use undue force.
- In case of installing in places such as those mentioned below, consult our sales shop or our designated agent nearest to you.
 - Places subject to sea breezes or corrosive gas.
 - Places at the risk of swinging or vibrating.
- Do not unplug the power cord while the unit is operating.
- Do not remove the covers that were screwed down.

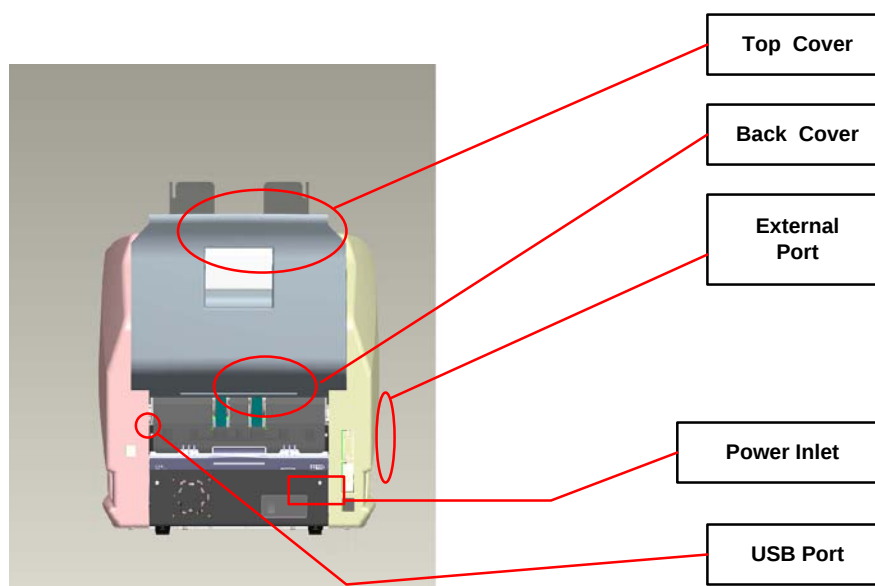
3. Appearance

3-1 Front View



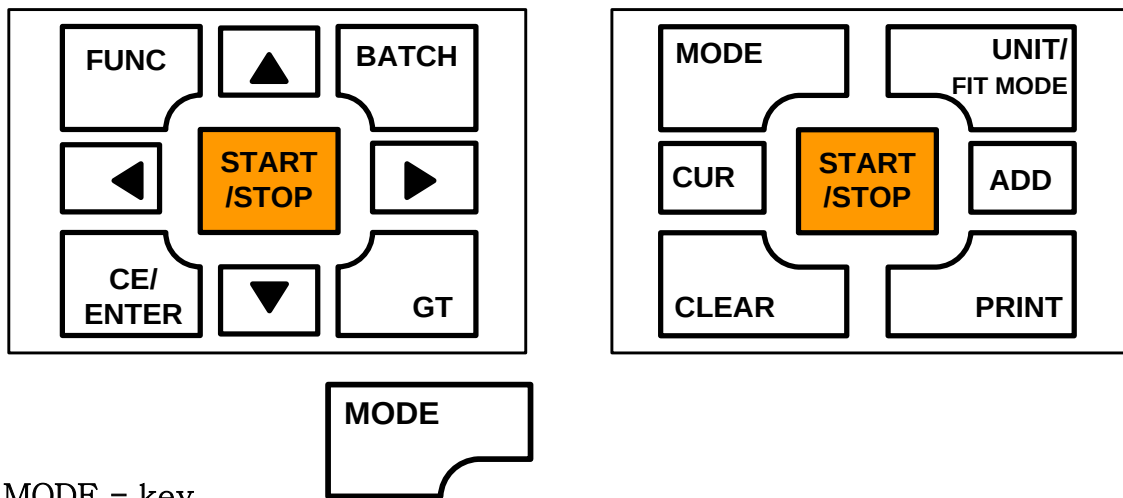
< Front View >

3-2 Back View



< Back View >

3-3 Key



MODE – key

- Choose from MIX, DEM, ORT, FIT, SN, CNT mode.
- USD : MIX → DEM → ORT → SN → CNT
- EUR : MIX → DEM → ORT → FIT → SN → CNT

By pressing this key, the mode changes to the next one.

- Mix : In case of mixed denomination.
- Denomination : In case of counting one kind of denomination.
- Orientation : In case of counting according to the surface of denomination.
- Fitness : In case of fitness mode(Only EUR).
- Serial number : In case of serial number mode.
- count : In case of count mode.



UNIT – key

- User can select certain denomination in DEM, ORT mode. And, certain denomination user wants to can be distinguished in USD, EURO.
- There are 3 kinds of mode in Fit mode.
 - ① FI-UF (Fit – Unfit): Fit note and Unfit note can be distinguished.
 - ② UF-RE (Unfit – Reject): counterfeit among Unfit note can be Rejected.
 - ③ AT-FI (ATM – Fit): Note for ATM among fit note can be distinguished. And, Note for ATM can be stacked in Stacker.

CUR – key



- Select the type of currency.
- By pressing “CUR” key, the mode changes to the next one.

USD → EUR → LOCAL

start/stop – key



- In counting mode, it starts or stops the function of error clear and counting.
- In setup mode, it can be finished user setup.

ADD – key



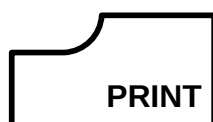
- - In ADD mode, a previous counting data is added to the next counting.

Clear – key

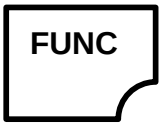


- Used to change to clear menu.

Print – key



- Used to change to printing mode.
- When it is connected printer, it starts to print out.

 FUNC

FUNC – key

- In counting mode, used to change to setup mode.



up , down – key

- In batch mode, Used to change the number by 10 and used to setup the item.



Left, Right – key

- In batch mode, Used to change the number by 10 and used to move to batch detail display in use mode.
- Value in Fit Mode can be adjusted from F0 to F 10.

 BATCH

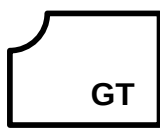
Batch – key

- Used to change to batch number change mode(10→20→25→50→100→10...).
- If you want to change to the number bigger than 100, you may use arrow keys.
- To confirm chosen batch number, press "CE/ENTER" key.

 CE/
ENTER

CE/ENTER – key

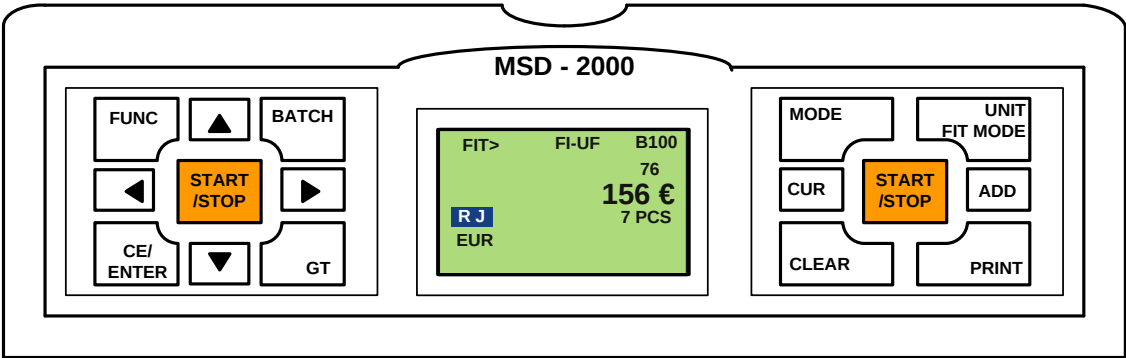
- At setting mode to set some function, it can complete setting up some value and come back to previous mode

 GT

GT(Grand Total) – key

- Grand total number display in detail.

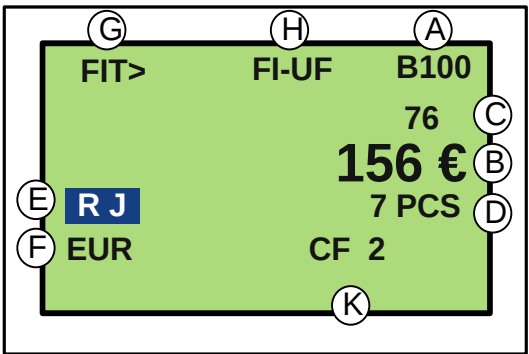
3-4 Key panel



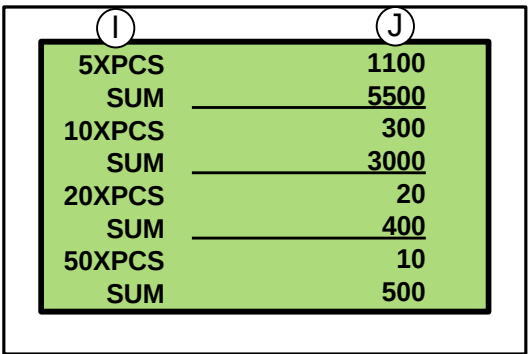
LCD Display

The message description and placements are defined below.

When a guide message shows up, the screen automatically changes to Normal display from detail display.



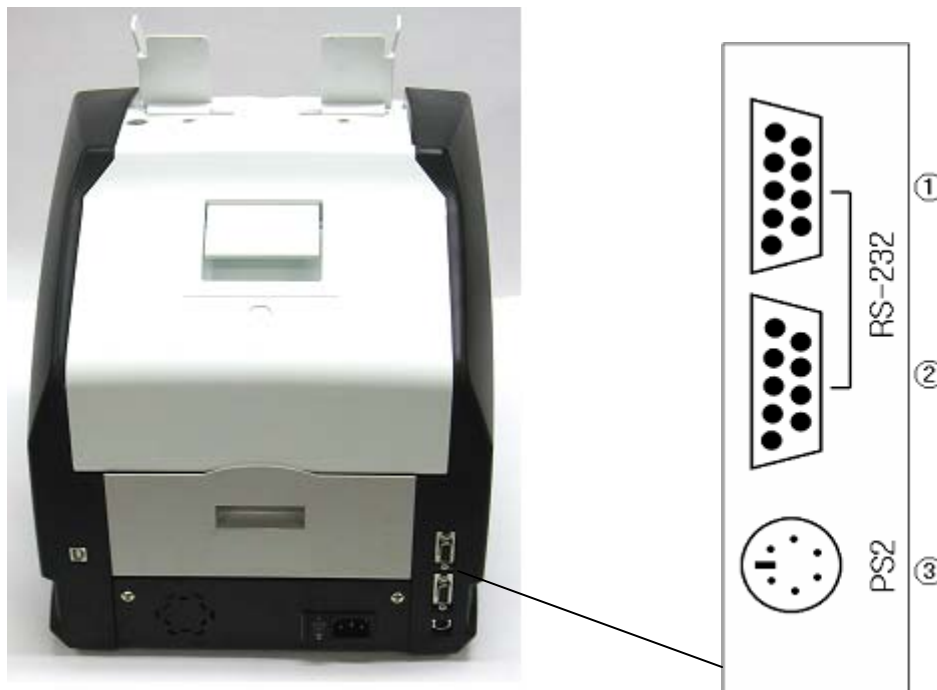
<Normal display>



<Detail display>

A	Batch quantity	G	Operating mode
B	Value & Currency sign	H	Details of operating mode
C	Quantity of stacker	I	Denomination & Sum
D	Quantity of reject pocket	J	Count & Value
E	Reject pocket	K	Quantity of Counterfeits on reject pocket (Fitness, FI-UF mode)
F	Currency code		

3-5 External interface



<Back view>

1) Terminal Interface Connection (① , ②)

This product can be operated from a PC. The PC can manage the transaction data.

- ▶ Connect a interface cable to ① and ②.

2) Printer Interface Connection (②)

This product can print out the transaction data to a external printer.

- ▶ Connect a interface cable to ②.

3) Customer display Connection (③)

This product can display the result through Customer Display Panel.

- ▶ Please connect customer display to 3.

4. Operation

4-1 Power ON/OFF



Power switch

- ① Please connect power cable to above port. When power is ON, Display like <display 1> will be in screen.
- ② After some time, when <display 2> will be on the screen, use machine.

**MODEL : EAGLE – 2000
VER : 3.00 EURFIT
MADE IN DENMARK
CT coin**

<Display 1>

**MIX> AUTO B100

0 €
R J 0 PCS
EUR**

<Display 2>

4-2 Checkpoints before Counting

- Avoid counting wet, excessively dirty or spoiled notes.



- Check the foreign matter (paper chips, rubber bands, clips, dust etc) mixed with notes.



- Remove folds or end from notes beforehand. Spread and separate brand new notes well for some of them are slightly adhesive.
- Align all the four corners and edges of notes. Any unevenness may cause an error.



<Right setting up>



<Wrong setting up>

4-3 Keys for print & clear

- Press the print key or the clear key on the right side of the key panel.
- Select the menu by the up, down key.
- After moving the cursor, press the enter key.
- Pressing the start/stop key, can end each menu.
- For print function, connect external port of / to serial printer.

4-4 Print Menu

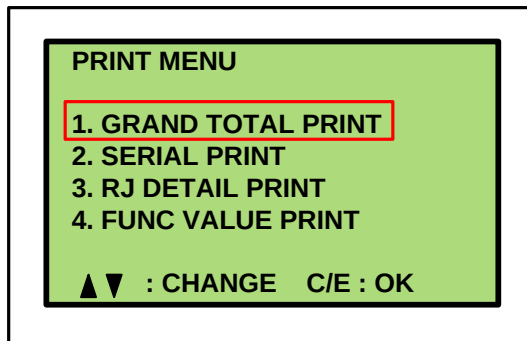
Connect external port of / to Serial Print.

Press the print key



on right side of key panel and select function.

1. GRAND TOTAL PRINT: Print out total amount of counted banknotes.



* MSD-2000 BANKNOTE REPORT V3.01		
Time : 05/23/2008, 14/00/34		
OP Currency : EUR		

DENOM : GRAND PCS : GRAND TOTAL		

5€	20	100
10€	10	100
20€	10	200
50€	10	500
100€	10	1000
200€	10	2000

TOTAL :	70	3900

* MS- 2D Reject Detail Report	

LONG NOTE	0
CHAIN	0
HALF NOTE	0
ERROR CF-A	0
ERROR CF-B	0
ERROR CF-C	3
ERROR CF-D	0
ERROR CF-E	0
ERROR CF-F	0
ERROR CF-G	0
ERROR CF-H	0
DOUBLE ERROR	0
OTHER NOTE	0
RECOGNITION ERR	4
OTHER ORIENT	0
BATCH FULL	0
REJECT FULL	0
NOTE ERROR	0
DOG-EARED ERROR	0
TEARS ERROR	3
HOLES ERROR	0
TAPE ERROR	74
STAIN ERROR	0
MUTILATION ERR	0

TOTAL :	84

ATM NOTE RESULT		

5€	10	50
10€	5	50
20€	5	100
50€	5	250
100€	5	500
200€	5	1000

TOTAL :	35	1950

FIT NOTE RESULT		

5€	3	15
10€	3	30
20€	3	60
50€	3	150
100€	3	300
200€	3	600

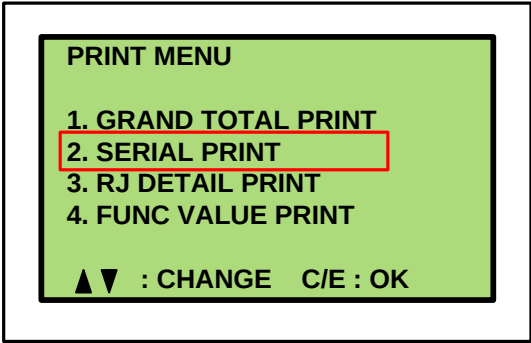
TOTAL :	18	1155

UNFIT NOTE RESULT		

5€	7	35
10€	2	20
20€	2	40
50€	2	100
100€	2	200
200€	2	400

TOTAL :	17	795

2. SERIAL PRINT: Print out total value and each S/N from banknotes.



* MS- 2D BANKNOTE REPORT V1.00		

Time : 05/23/2008, 14/00/34		
OP Currency : EUR		

DENIM :	PCS	: TOTAL

5€	2	10
10€	1	10
20€	1	20
50€	1	50
100€	1	100
200€	1	200

TOTAL :	7	400

3. RJ DETAIL PRINT: Print out errors of rejected banknotes.

PRINT MENU

1. GRAND TOTAL PRINT

2. TOTAL PRINT

3. RJ DETAIL PRINT

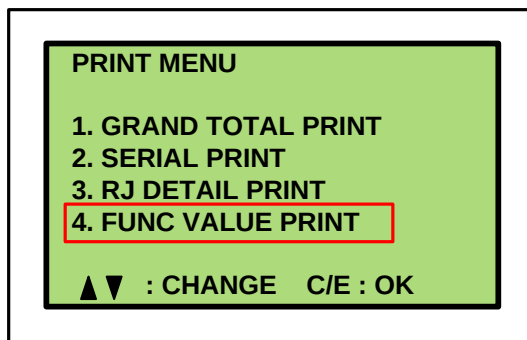
4. FUNC VALUE PRINT

▲▼ : CHANGE C/E : OK

* MSD-2000 Reject Detail Report		
LONG NOTE		0
CHAIN		0
HALF NOTE		0
ERROR CF-A		0
ERROR CF-B		0
ERROR CF-C		3
ERROR CF-D		0
ERROR CF-E		0
ERROR CF-F		0
ERROR CF-G		0
ERROR CF-H		0
DOUBLE ERROR		0
OTHER NOTE		0
RECOGNITION ERR		4
OTHER ORIENT		0
BATCH FULL		0
REJECT FULL		0
NOTE ERROR		0
DOG-EARED ERROR		0
TEARS ERROR		3
HOLES ERROR		0
TAPE ERROR		74
STAIN ERROR		0
MUTILATION ERR		0

TOTAL :		84

4. FUNC VALUE PRINT: Print out setup value of sensors of a machine.



* MS- 2D MACHINE VALUE PRINT

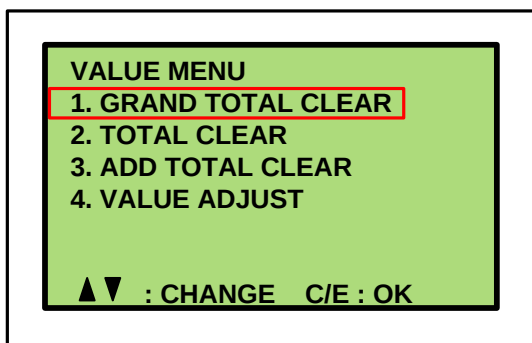
1. UV TOP SENSOR SET
UVT ON/OFF : OFF
UVT FL : 130
UVT RL : 40
UVT TFL : 130
2. UV BOT SENSOR SET
UVB ON/OFF : ON
UVB FL : 130
UVB RL : 40
UVB TFL : 130
3. MG SENSOR SET
MG ON/OFF : ON
MG LEFT : 30
MG CENTER : 3
MG RIGHT : 30
4. DOUBLE LEVEL
DOUBLE Value : 30
5. REJECT NUMBER
REJECT Number : 50
6. LCD CONTRAST
LCD Contrast : 26
7. BAUD RATE
BAUDRATE : 115200bps
11. SPEED SETTING
SPEED SETTING : 960
12. SPOOL SETTING
SPOOL SETTING : 2 LEVEL
13. SERIAL PRINT
SN Print ON/OFF : OFF
14. BUZZER
Buzzer ON/OFF : OFF
15. AUTO START
Auto Start ON/OFF : ON
16. EXTERNAL DISPLAY
EX Display ON/OFF : ON

4-5 Clear menu

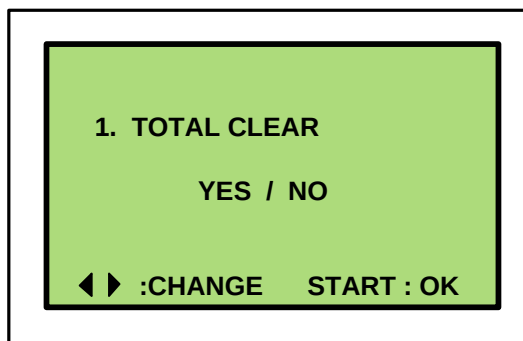
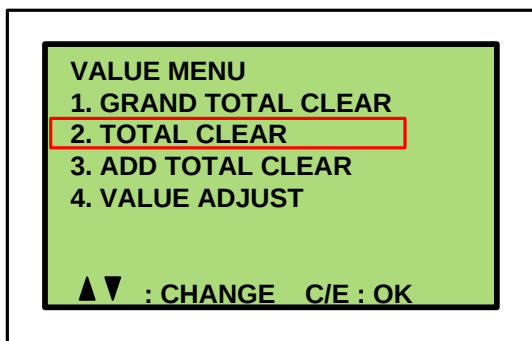
Press the clear key  on right side of key panel and select function.

Values are not cleared before clearing values in clear menu <Screen of clear menu>

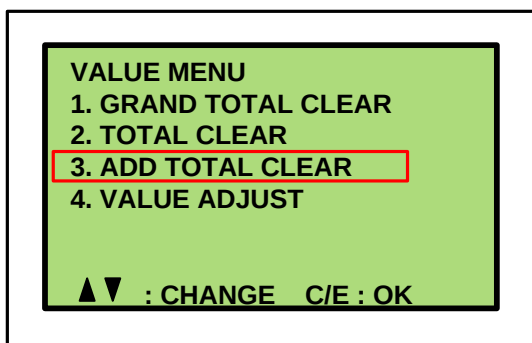
1. GRAND TOTAL CLEAR: Get to initialize grand total value.



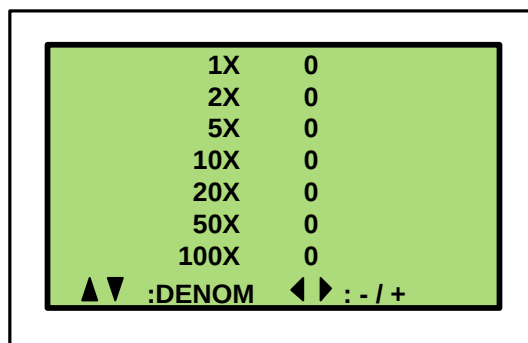
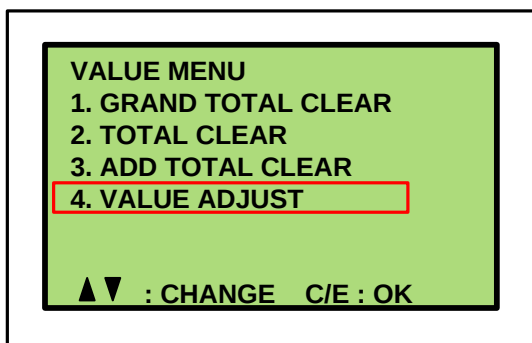
2. TOTAL CLEAR: The last result can be eliminated so that the previous result is displayed.



3. ADD TOTAL CLEAR: The last result in add mode can be eliminated so that the previous result in add mode is displayed.



4. VALUE ADJUST: This can be changed to a value result.



After selecting the denomination by the up, down key   ,

Please use to change the number by the left, right key   ,

If pressing the enter  key, value is changed.

5. User mode

5-1 Keys for mode

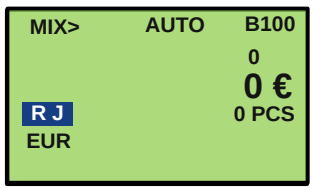
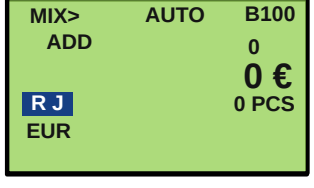
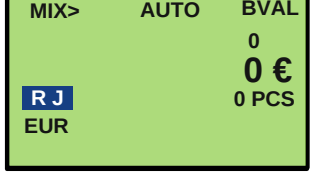
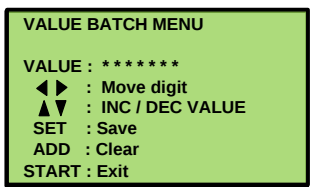
Select a user mode among six modes by the mode key .

Select details mode by the unfit/fit mode key  .

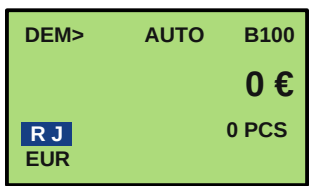
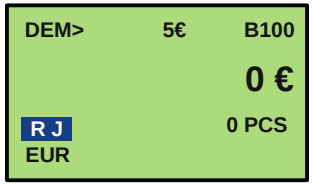
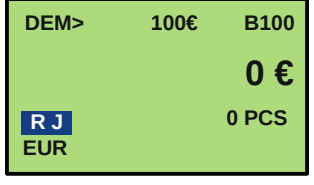
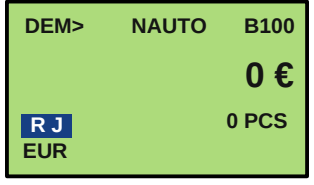
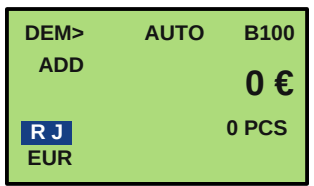
When pressing the batch key  in MIX-BVAL mode, used to change value batch screen.

Mode		Display Screen		Description
Mix	Basic	MIX	AUTO	Count all denomination of selected currency.
	ADD	MIX	ADD	
	Value batch	MIX	BVAL	
Denomination	Basic	DEM	AUTO	Count the denomination of selected.
	Denomination	DEM	Selecting denomination	
	Old / New	DEM	NAUTO	
	ADD	DEM	ADD	
Orientation	UP - DOWN	ORT	UP-DN	Count the orientation of denomination is selected
	MIX - FACE	ORT	MIX-F	
	DEM - FACE	ORT	DEN-F	
	NEW - FACE	ORT	NEW-F	
Serial number	Basic	SN	AUTO	Print the serial number of notes.
	ADD	SN	ADD	
CNT		CNT	AUTO	Count all currencies without detection.

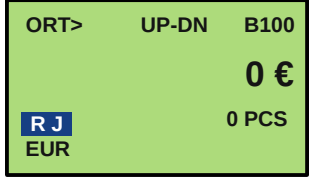
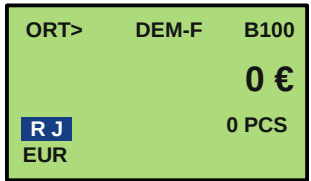
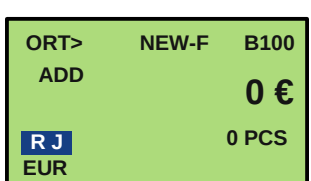
5-1-1 MIX Mode

	✓ Count all denomination of selected currency.										
	✓ Count all denomination of selected currency. ✓ Cumulate the count sum.										
	✓ Count all denomination of selected currency. ✓ Can count all denomination of selected currency with setting value.										
	✓ Value batch mode can be selected by using the unit key. ✓ After selecting Value batch mode, if batch key is pressed, Value batch mode screen will be displayed. ✓ When select Value batch mode, 'Grand total' is cleared and 'Grand total save' function is not available. <table border="1" data-bbox="619 1608 1362 1904"> <tr> <td>◀ ▶</td><td>Move between digits.</td></tr> <tr> <td>▲ ▼</td><td>Increase values / decrease values</td></tr> <tr> <td>CE/ENTER</td><td>Save setting values.</td></tr> <tr> <td>ADD</td><td>Clear setting values.</td></tr> <tr> <td>START</td><td>Exit 'VALUE BATCH' function mode, after saved values automatically.</td></tr> </table>	◀ ▶	Move between digits.	▲ ▼	Increase values / decrease values	CE/ENTER	Save setting values.	ADD	Clear setting values.	START	Exit 'VALUE BATCH' function mode, after saved values automatically.
◀ ▶	Move between digits.										
▲ ▼	Increase values / decrease values										
CE/ENTER	Save setting values.										
ADD	Clear setting values.										
START	Exit 'VALUE BATCH' function mode, after saved values automatically.										

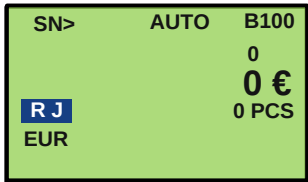
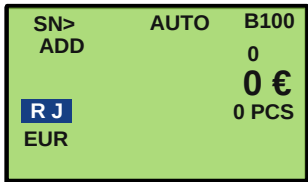
5-1-2 DEM Mode

	✓ Count the denomination of selected. ✓ Banknotes are sorted according to kind of first banknote through sensor in AUTO mode. (Different notes will be separated)
	✓ Count the denomination of selected. ✓ Banknotes are sorted according to selected the denomination.
	
	✓ Count the denomination of selected. ✓ Banknotes are sorted according to kind of first banknote through sensor. ✓ Banknotes are sorted according to old & new.
	✓ Count the denomination of selected. ✓ Banknotes are sorted according to kind of first banknote through sensor. ✓ Cumulate the count sum.

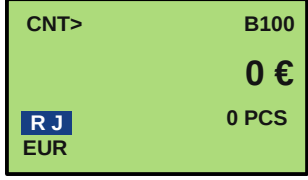
5-1-3 ORT Mode

	✓ It sorts face up or down from the mixed banknotes. ✓ It doesn't sort denomination. ✓ It's set by the direction of the first banknote
	✓ It's sorted by right or left direction that is already set face up or down from the mixed notes. ✓ It doesn't sort denomination. ✓ It's set by the direction of the first banknote
	✓ It's sorted by a direction and a side for a denomination. ✓ It sorts each denomination. ✓ It's set by the direction of the first banknote
	✓ It sorts the direction and old and new banknote. ✓ It's set by the first banknote.

5-1-5 SN/CNT Mode

 The screen displays 'SN>' in the top left, 'AUTO' in the top center, and 'B100' in the top right. In the center, it shows '0' followed by '0 €' and '0 PCS' below it. In the bottom left, there is a blue box with 'R J' and 'EUR' below it.	✓ Print the serial number of notes.
 The screen displays 'SN>' in the top left, 'ADD' in the top center, and 'B100' in the top right. In the center, it shows '0' followed by '0 €' and '0 PCS' below it. In the bottom left, there is a blue box with 'R J' and 'EUR' below it.	✓ Print the serial number of notes. ✓ Cumulate the count sum.

5-1-6 Count Mode

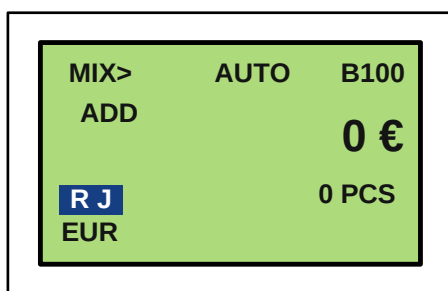
 The screen displays 'CNT>' in the top left and 'B100' in the top right. In the center, it shows '0 €' and '0 PCS' below it. In the bottom left, there is a blue box with 'R J' and 'EUR' below it.	✓ Counting Mode is for counting all currencies without detection.
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6. User setup

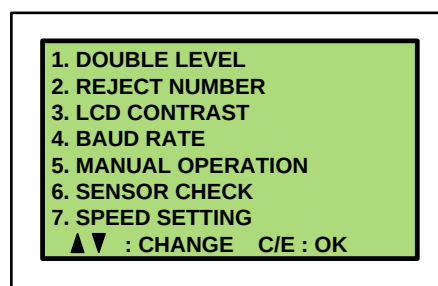
6-1 How to change the user setup

- ① Press  key once.

User setup screen is displayed.

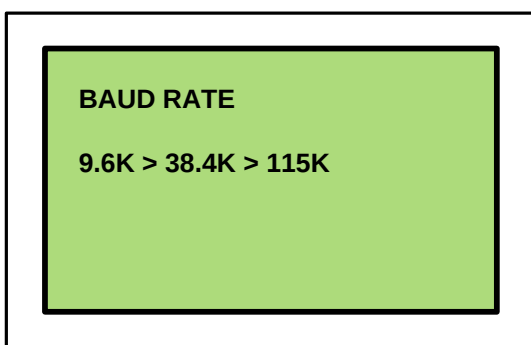


<Counting screen>



<User setup screen>

- ② Use   Key to select a parameter and press  Key to confirm the selection.



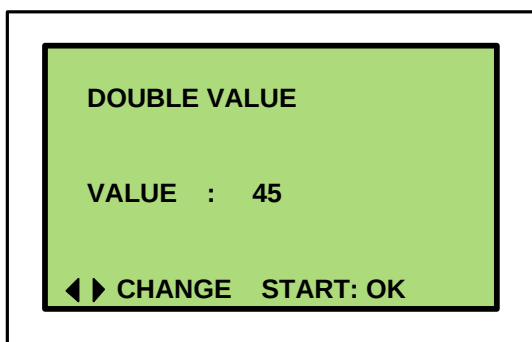
<Ex : setting up BAUD RATE>

- ③ Press the   key to change the values.

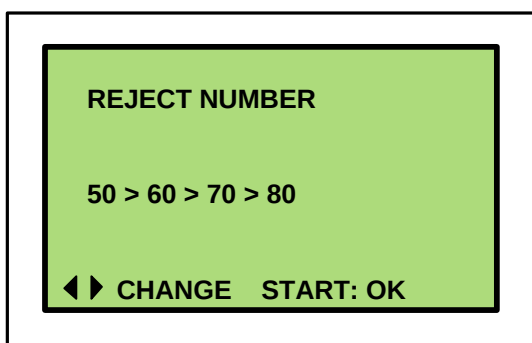
- ④ Press the key or the  key to save it.

Description of each functions

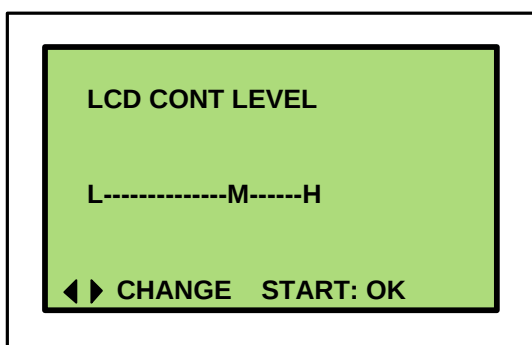
6-1-1 DOUBLE LEVEL - Regulate double level of notes as number.

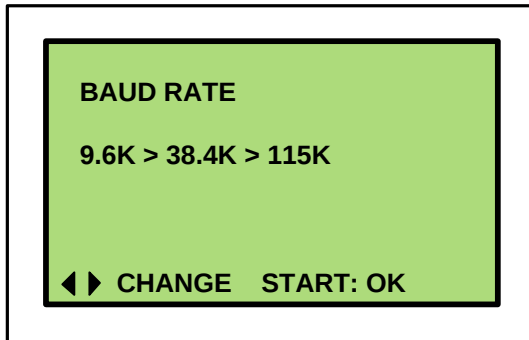
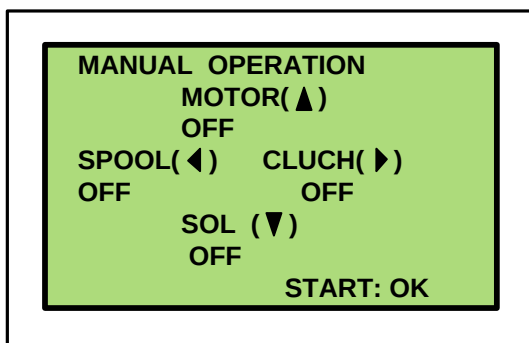
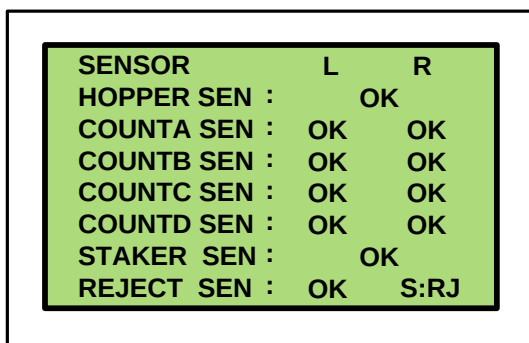


6-1-2 REJECT NUMBER - Set the maximum number of notes to be recognized as reject full.

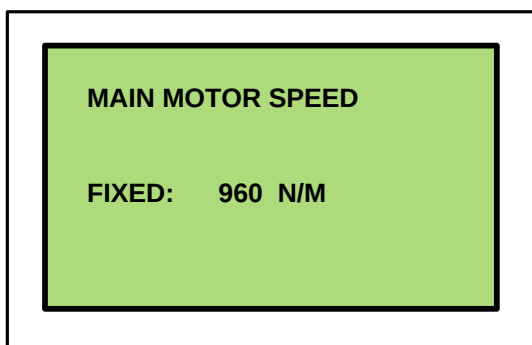


6-1-3 LCD CONTRAST - Set LCD contrast.

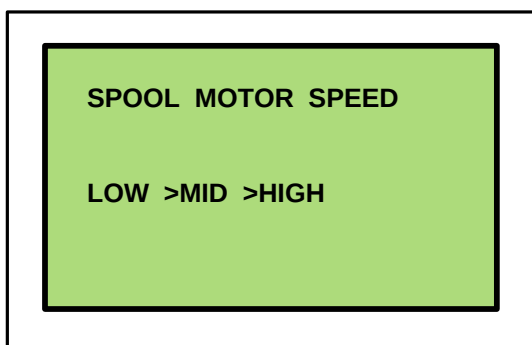


6-1-4 BAUD RATE - Set baud rate for communication.**6-1-5 MANUAL OPERATION** - Check the condition of Main, Spool, Solenoid and Clutch motors.**6-1-6 SENSOR CHECK** - Check real time condition of each part of sensor.

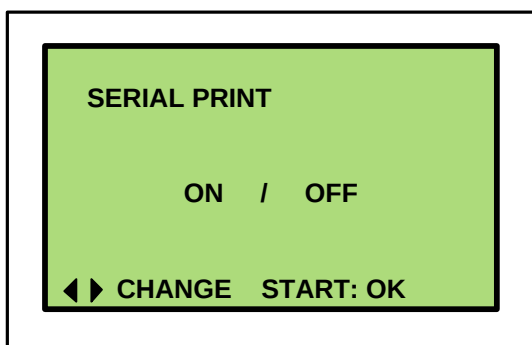
6-1-7 SPEED SETTING - Set the speed of Main motor

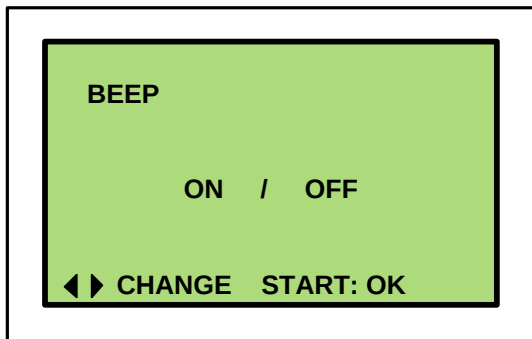
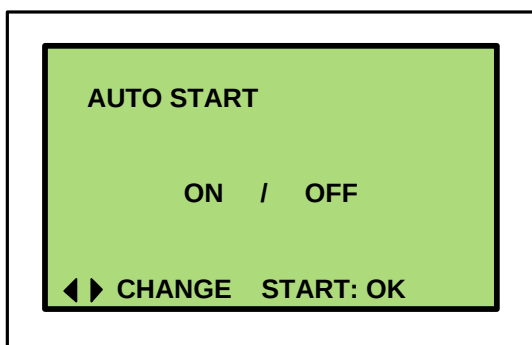
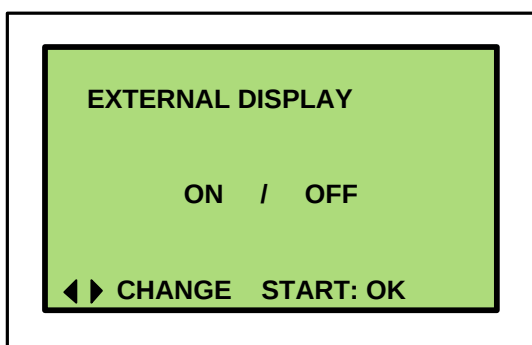


6-1-8 SPOOL SETTING - Set the speed of Spool motor.



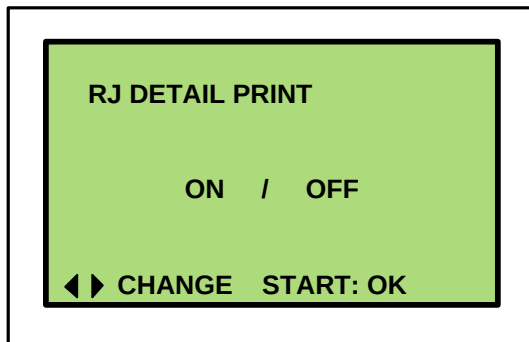
6-1-9 AUTO PRINT - Print serial number of notes automatically.



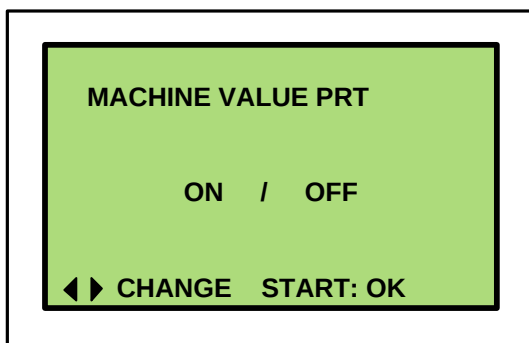
6-1-10 KEY BEEP SETTING - Turn on or off the key beep.**6-1-11 AUTO START** – Switch automatic or manual count. (On=Auto/ Off=Manual bypressing )**6-1-12 EXTERNAL DISPLAY** - Show the result of counting through external display panel for customer.

6-1-13 REJECT DETAIL PRT -Turn on or off the function to print the detail when notes are rejected.

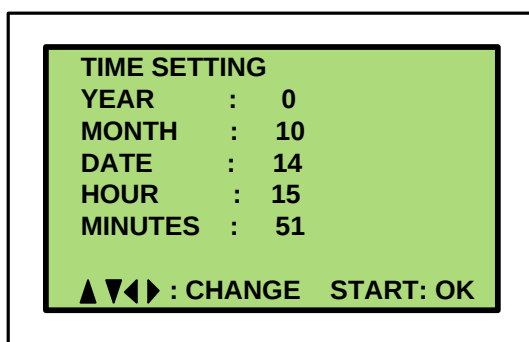
-When turned ON, print automatically.



6-1-14 MACHINE VALUE PRINT - Print out the information of machine value.

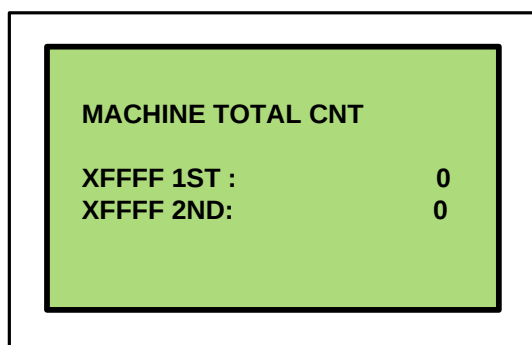


6-1-15 TIME SETTING – Set up present time.

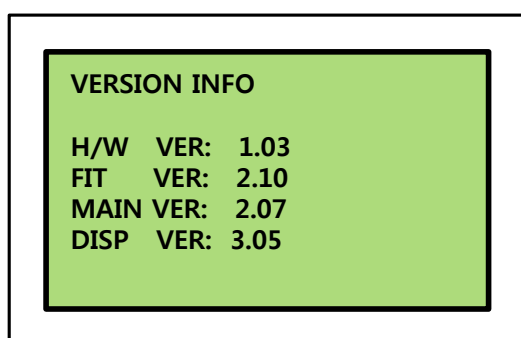


6-1-16 MSD TOTAL COUNT - Show machine's age and total counting volume except rejecting volume.

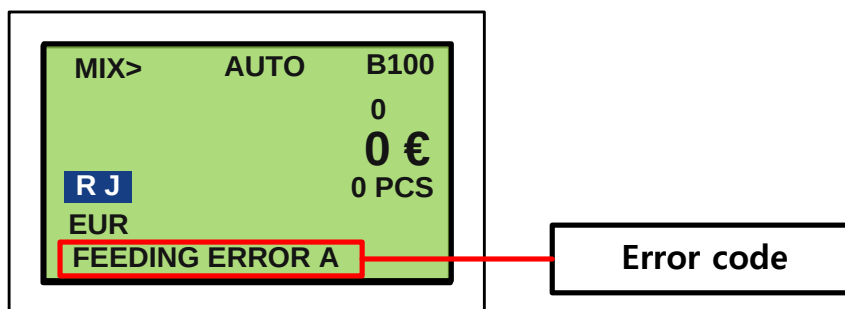
–Even though the machine is turned off, data is not eliminated. The digit of 1st and 2nd is 20 totally.



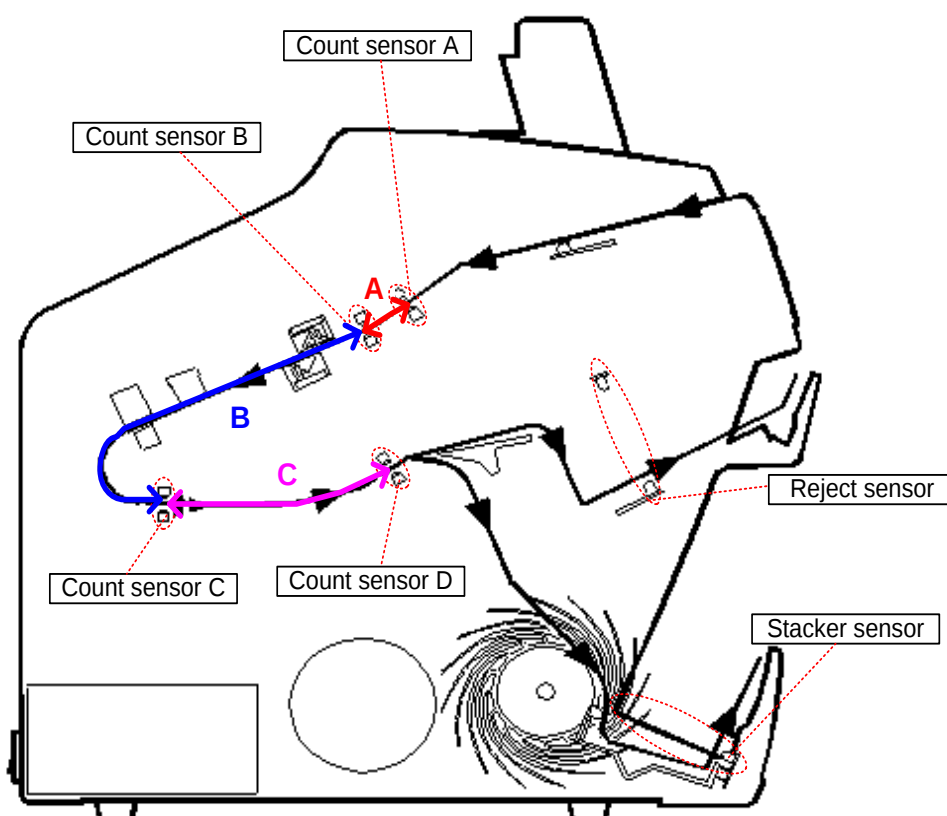
6-1-17 VERSION INFO – It indicates a soft



7. Error codes



An error code is displayed when the machine has a problem or notes go into the reject pocket.



< Sensor's Location >

***When an error occurs, please remove all the notes from stacker, press the START key, and recount the bundle.**

***When a note is stuck in a sensor, remove the note, and recount the bundle.**

7.1. Operation

Error Code	Description	Action
FEEDING ERROR A	Delivery delay in A section	Check the rollers around main motor or feeder. Replace the sensors if sensor A or B is defective
FEEDING ERROR B	Delivery delay in B section	Check Discrimination Part Roller Replace the sensors if sensor B or C is defective
FEEDING ERROR C	Delivery delay in C section	Check Transfer plate Part Roller Replace the sensors if sensor C or D is defective
SENSOR JAM A	Note is jammed in counter sensor A	Clean the count sensor A Replace the sensor if it is defective
SENSOR JAM B	Note is jammed in counter sensor B	Clean the count sensor B Replace the sensor if it is defective
SENSOR JAM C	Note is jammed in counter sensor C	Clean the count sensor C Replace the sensor if it is defective
SENSOR JAM D	Note is jammed in counter sensor D	Clean the count sensor D Replace the sensor if it is defective
STACKER ERROR	Note is jammed in stacker sensor	Clean the stacker sensor Replace the sensor if it is defective
REJECT ERROR	Note is jammed in reject sensor	Clean the reject sensor Replace the sensor if it is defective
CHAIN ERROR	Narrow gap between note and sensor	Recount bundle Check condition of count sensors

7.2 Information

Error Code	Description	Action
OTHER NOTE	Different denomination from first	Remove suspect note and recount bundle
OTHER ORIENT	Different orientation from first	
UNFIT	Unfit level note	Remove suspect note and recount bundle
CHANGE LV2 RECNT FAKENOTE IN RJ	Counterfeit and unfit level note	Recount the counterfeit and unfit note after selecting UF-RE mode
BATCH FULL	Loaded maximum quantity of notes on the stacker.	Remove the notes from the stacker
REJECT FULL	Loaded maximum quantity of notes on the reject pocket	Remove the notes from the reject pocket
A-BATCH ERROR	Picked out banknote in Stacker during counting	Recount

7.3 Defective note

Error Code	Description	Action
RECO ERROR	Non banknote	Check the note Recount bundle if the note is ok Call A/S center if same error message is received
LONG NOTE	Longer note	
HALF NOTE	Half size note	
NOTE ERROR	Low quality note	
DOG EARED ERROR	Dog eared note	
TEARS ERROR	Tear note	
HOLES ERROR	Holed note	
TAPE ERROR	Taped note	
STAIN ERROR	Stained note	
MUTILATION ERROR	Mutilated note	

7.4 Counterfeit

Error Code	Description	Action
CF-A ERROR	Counterfeit note detected by UV FL sensor	If banknote is genuine, clean UV sensor Check UV FL sensor setting Replace the sensor if UV sensor is defective
CF-B ERROR	Counterfeit note detected by UV RL sensor	If banknote is genuine, clean UV sensor Check UV RL sensor setting Replace the sensor if UV sensor is defective
CF-C ERROR	Counterfeit note detected by MG Center sensor	If banknote is genuine, clean roller Ass'y Check MG center sensor setting Replace the sensor if UV center sensor is defective
CF-D ERROR	Counterfeit note detected by MG Left, Right Sensor	If banknote is genuine, clean roller Ass'y Check MG Left, Right setting Replace the sensor if MG Left, Right sensor is defective
CF-E ERROR	Counterfeit note detected by IR Sensor(IRA)	If banknote is genuine, adjust image sensor setup Check IRA setting
CF-F ERROR	Counterfeit note detected by IR Sensor(IRS)	If banknote is genuine, adjust transmit image sensor setup Check IRS setting
CF-G ERROR	Counterfeit note detected by IR Sensor(IRH)	If banknote is genuine, adjust transmit image sensor setup Check IRH setting
CF-H ERROR	Counterfeit note detected by IR Sensor	If banknote is genuine, adjust transmit image sensor setup

8. Daily Care

All parts of UNIXCAM 2020F need daily care and clean. Especially sensors of this are very sensitive and delicate components. If any dust or other foreign matter adheres to the sensor, it may cause various problems during operating the machine.

To avoid malfunction caused by foreign subjects, please clean your machine everyday.

- **Clean sensors of the machine using a soft, dry cloth.**
- **Clean rubbers and rollers using a dust brush.**

Do not use any chemicals to clean this machine.