

PRELIMINARY

L-1500

User's Manual




MAGNER

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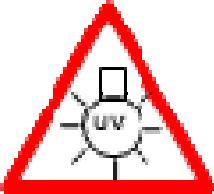
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1. Safety Instruction

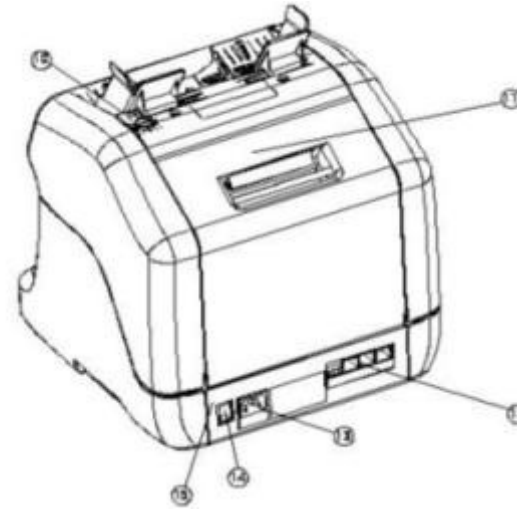
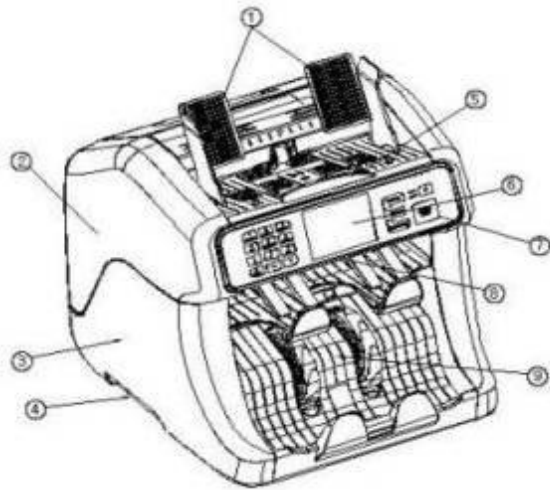
1) CAUTION

	Never disassemble the machine except the trained person.
	Be careful not to pinch your finger when closing the Upper & Rear Cover.
	Use the voltage between AC100V and AC240V
	Turn off the machine during cleaning, and do NOT use flammable gas spray for cleaning.

2) WARNING

 	Do not touch the machine or the power cable with a wet hand.
	Do not operate the machine, if smoke or strange smell is detected from the machine. In this case, please contact your local distributor
	Always keep clothes, hairs and fingers out of the feed hopper area
	UV RADIATION!! Eye and skin protection during servicing

2. APPEARANCE



NO	NAME	NO	NAME
①	Hopper Guide	⑨	Stacker
②	Upper Cover	⑩	Thickness Dial
③	Lower Cover	⑪	Upper Rear Cover
④	Carrying Handle	⑫	Interface Connector
⑤	Hopper	⑬	Inlet
⑥	LCD Display	⑭	Power Switch
⑦	Operation Panel	⑮	Lower Rear Cover
⑧	Cover Open Button		

3. Structure

1) How to open upper cover

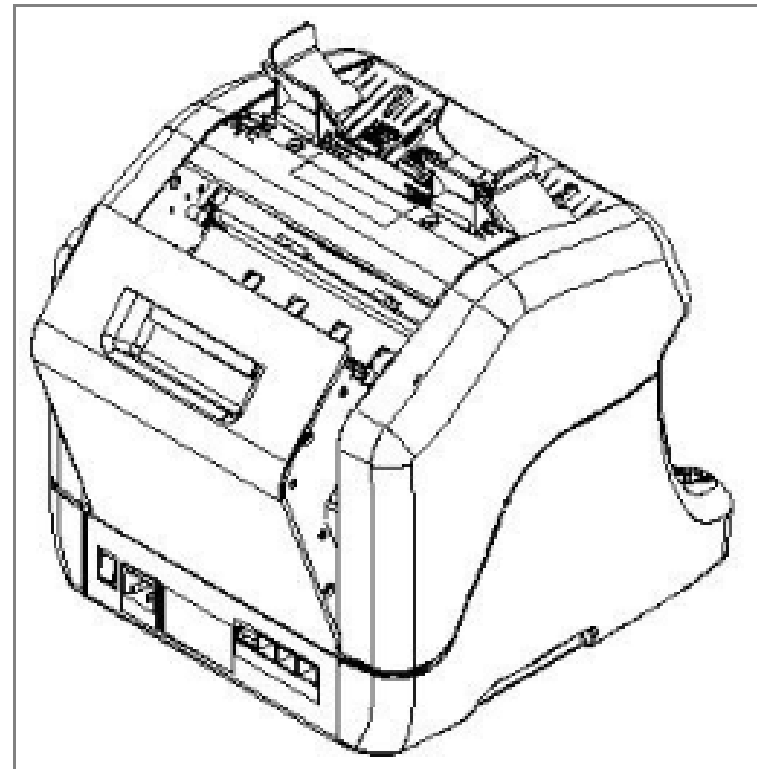
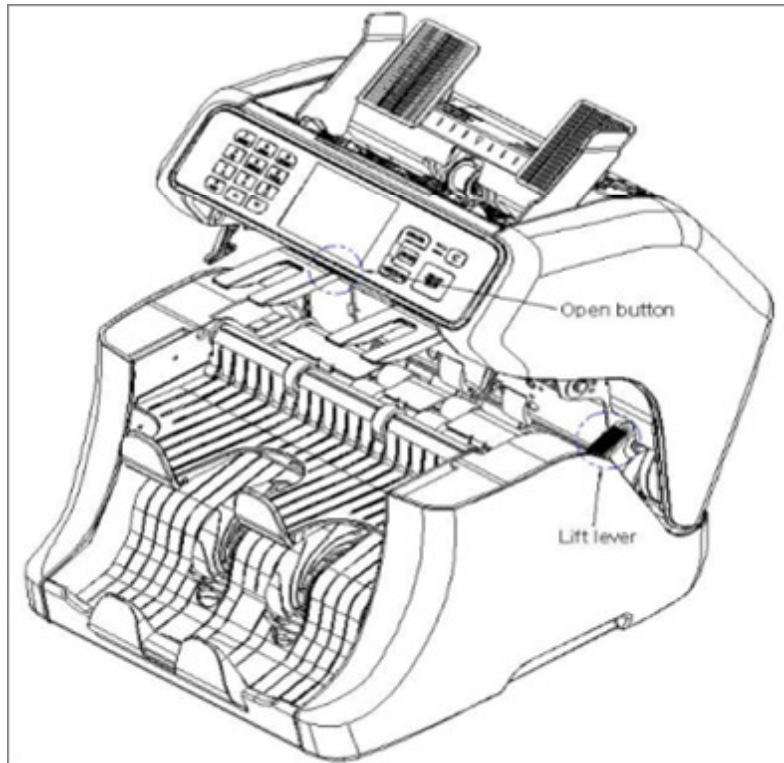
Press open button and lift it to open the upper cover.

2) How to close upper cover

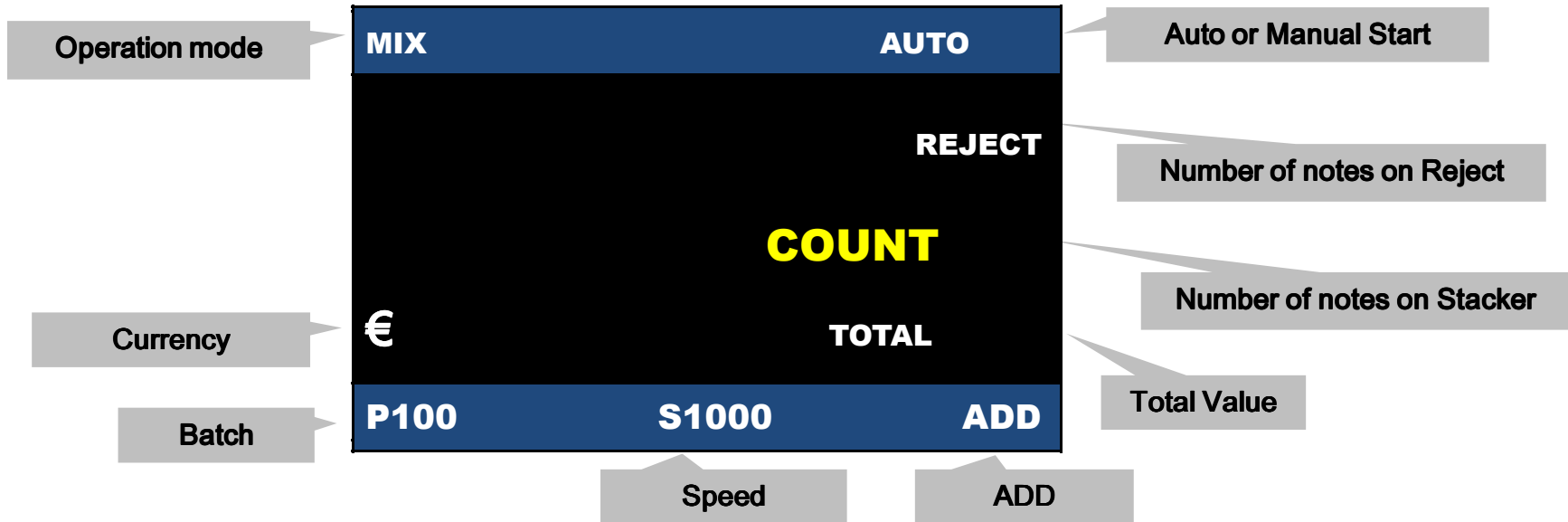
Lift the upper cover a little by left hand and pull the lift lever forward and then fall down the upper cover slowly. Be careful not to pinch your finger.

3) How to open rear cover

Hold and lift the lever to open the rear cover.



4. Display Description



NAME	FUNCTION
COUNT	Count all currencies without recognition and detection.
MIX	Count all denomination of selected currency.
◆ SP	Sort out the same denomination of first inserted note or specific denomination
V-SP	Sort out the old and new version of specific denomination.
◆ FACE	Separate front side or rear side of the notes of first inserted note or specific denomination
◆ ORIENT	Separate different direction notes of first inserted note or specific denomination

5. Operation Panel



Number Key is used for Batch Key and also when press and hold down each key, user can enter each function.

1) Number Key


NO	NAME	FUNCTION	NO	NAME	FUNCTION
①	\$	Select USD, if available	⑧	SAVE	Save the Function Setting in Memory.
②	€	Select EURO, if available	⑨	BAT	Select Batch Number
③	LC	Select Local Currency	⑩	ADD	Accumulate all Counted Notes.
⑤	ERROR	Display the Error Information.	▲	UP	Enter Service Mode. (Password Necessary)
⑥	TOTAL	Show the Denomination Information.	▼	DOWN	Enter Technical Mode (Password Necessary)
⑦	PRINT	Print out the Denomination Information			

2) Hot Key


NAME	FUNCTION	NAME	FUNCTION
CURRENCY	Select Currency	START/STOP	Counting stop or restart.
MODE	Select Different Operation Mode	RED LED	Notes on the Rejecter
FUNCTION	Enter User Mode	GREEN LED	Notes on the Stacker
CLEAR (C)	Exit the menu and clear errors.		

3) Details of Number Key

1) USD Key

Press and hold down  Key and select USD Currency. (Depending on the Currency, this key may not work)


2) EUR Key

Press and hold down  Key and select EUR Currency. (Depending on the Currency, this key may not work)

3) Local Currency Key


Press and hold down  Key and select Local mode

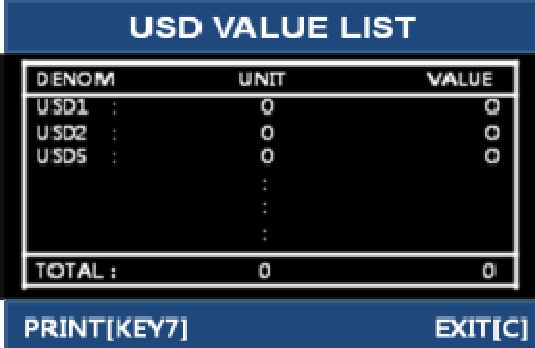
4) ERROR Key

Press and hold down  Key and select ERROR report
It displays the detailed information of Unfit & rejected notes

ERROR REPORT		
Soil : 1	Corner : 1	Tear : 0
Tape : 1	Stain : 0	Hole : 1
----- etc		
=====		
Unfit Total		4 pcs
Reject Total		2 pcs
PRINT[KEY7]		EXIT[C]


5) TOTAL Key

Press and hold down  Key and select Total Value List
It displays the denomination information of counted notes




DENOM	UNIT	VALUE
USD1	0	0
USD2	0	0
USD5	0	0
TOTAL :	0	0



6) PRINT Key


Press and hold down  Key and select Print
It prints out the denomination information of counted notes.
In addition, as an option, Serial Number of banknote can be printed out

7) SAVE Key

Press and hold down  Key and save the data in User or Service or Technical Mode
It saves the changed setting in memory.


8) BAT Key

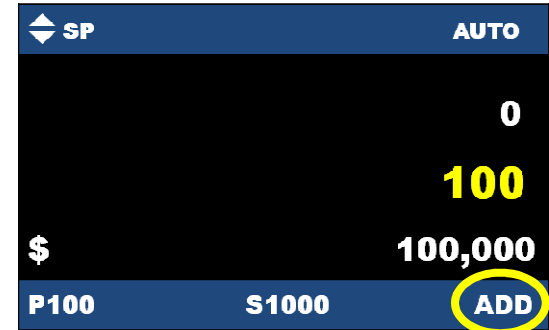
Press and hold down  Key and select BATCH Number
It selects Batch number which was selected already (10, 20, 50, 100) by
pressing  Key each time.




SP	AUTO
	0
	100
\$	100,000
P100	S1000 ADD

9) ADD Key


Press and hold down  Key and select ADD Mode
It accumulates all counted notes.



10) SERVICE Mode Key

Press and hold down  Key and select SERVICE Mode
Password is necessary, and strongly recommend to use only with Service Engineer.

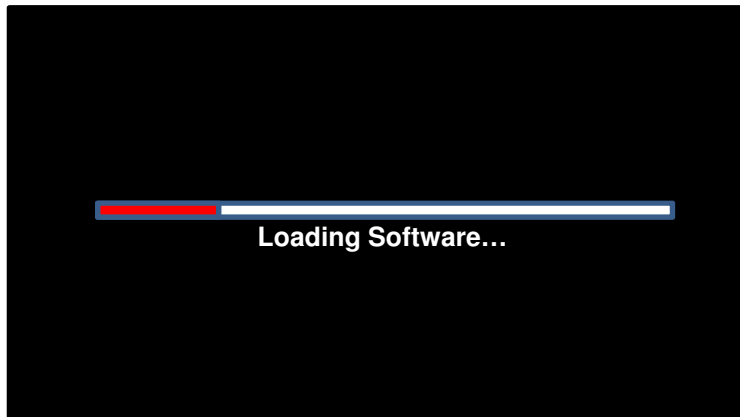
11) TECHNICAL Mode Key

Press and hold down  Key and select TECHNICAL Mode
Password is necessary, and strongly recommend to use only with Service Engineer.

6. OPERATION

6-1. Self Diagnosis

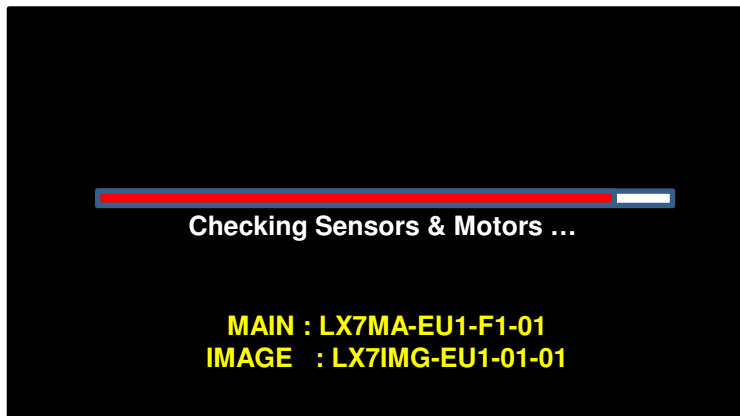
- After turning on the power of machine, the self diagnosis will be done as follows;



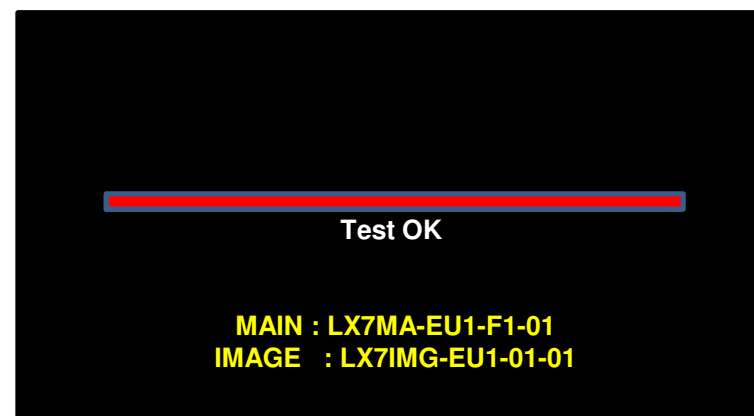
1) Software Loading



2) During Software Loading, each software version will be displayed.



3) After software loading successfully, Sensor & Motor function will be checked.



4) If everything is OK, "Test OK" message will show up. However, if error is happened during initializing, the related error message will show up.

6-2. Denomination Mode

1) USD Mode

Press **CURRENCY** key and select USD(\$) currency.

Press **MODE** key and select Operation Mode.

In this mode, it can recognize and detect USD currency.
(Depending on the Currency, this mode may not work)

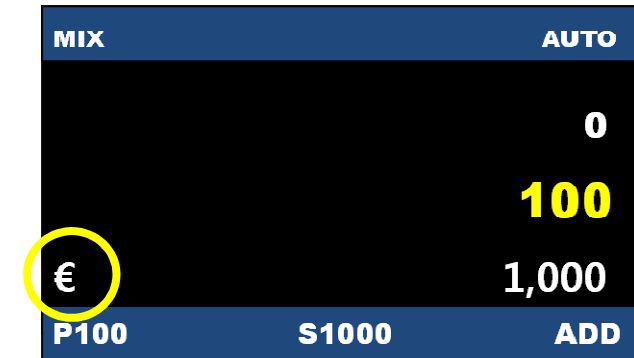


2) EURO Mode

Press **CURRENCY** key and select EUR(€) currency.

Press **MODE** key and select Operation Mode.

In this mode, it can recognize and detect EUR currency.
(Depending on the Currency, this mode may not work)



3) Local Mode

Press **CURRENCY** key and select LC (**TL,RUB, GBP, MXN,SAR, INR etc**) currency.

Press **MODE** key and select Operation Mode.

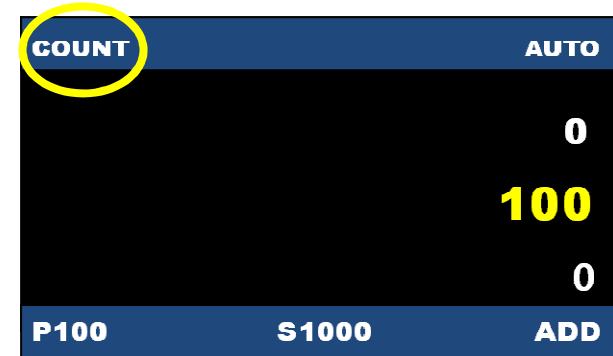
In this mode, it can recognize and detect Local currency.

6-3. Operation Mode

1) Count Mode

Press **MODE** key and select Count Mode.

It count the all currencies without recognition and detection.



2) MIX Mode

Press **MODE** key and select Mix Mode.

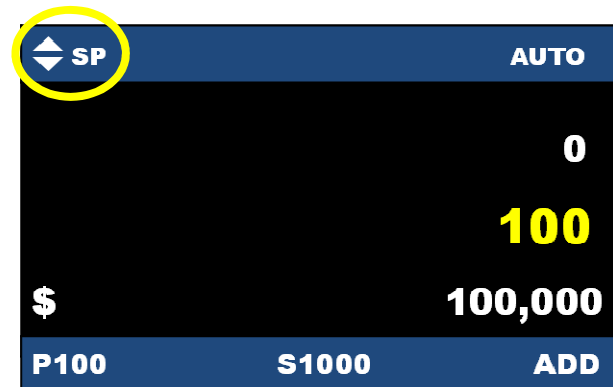
It count the all denomination of selected currency.



3) SP Mode (SP- Denomination Mode)

Press **MODE** key and select SP Mode.

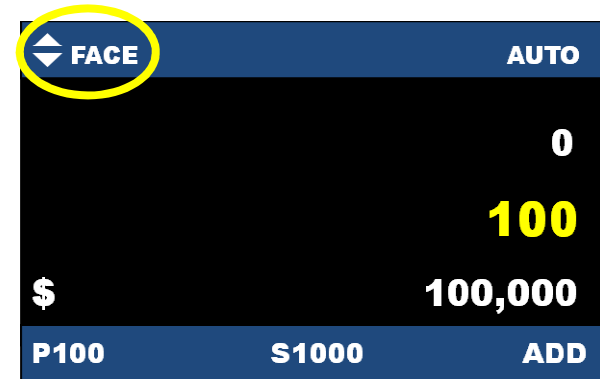
It sorts out the same denomination as first inserted note or pre-selected denomination by UP[△]/DOWN[▽] Key.



4) FACE Mode (FACE-DEN Mode)

Press **MODE** key and select FACE Mode.

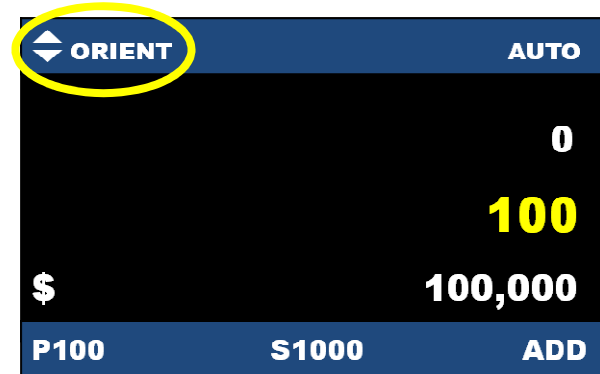
It separates front side or rear side of the notes of all denominations or first inserted note by UP[△]/DOWN[▽] Key.
(Depending on the Currency, this mode may not work)



5) ORIENT Mode (ORIENT-DEN Mode)

Press **MODE** key and select ORIENT Mode.

It separates different direction notes of all denominations or first inserted note by UP[△]/DOWN[▽] Key.
(Depending on the Currency, this mode may not work)



6) FIT Mode (FIT-DEN Mode)

Press **MODE** key and select FIT Mode.

It separates Fit notes of all denominations or first inserted note by UP[△]/DOWN[▽] Key.
(Depending on the Currency, this mode may not work)

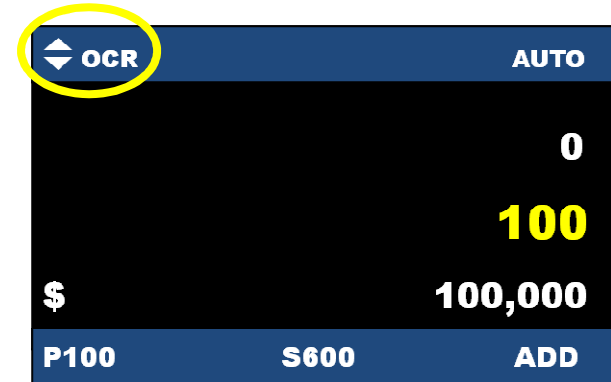


7) OCR Mode: Option

Press **MODE** key and select OCR Mode.

It prints out the serial number of all denominations
(Depending on the Currency, this mode may not work)

The Printing Option is available in User Mode



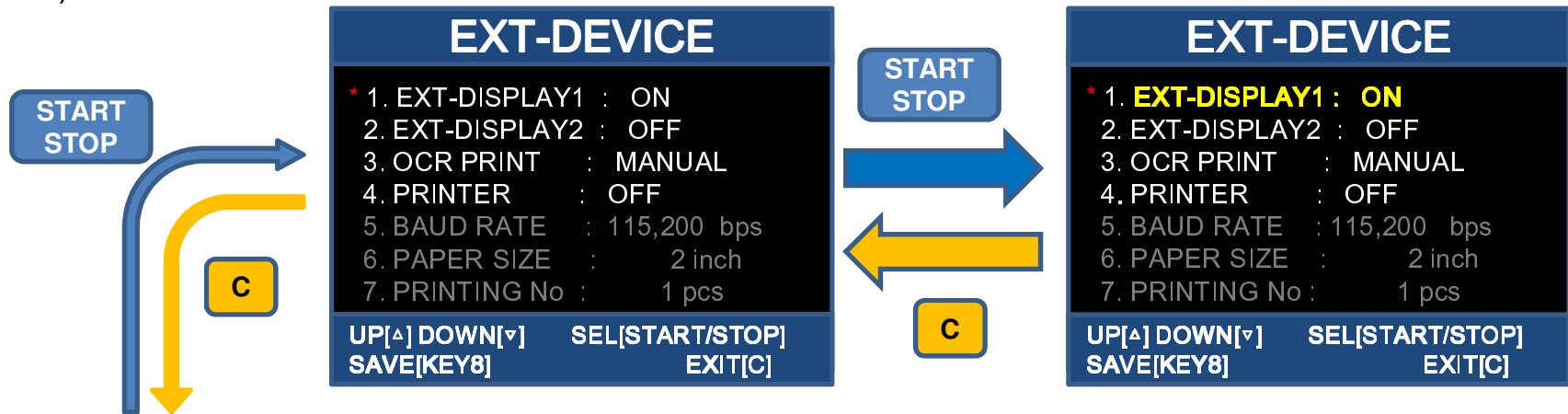
6-4. User Mode

1. Press **FUNCTION** Key to enter User Mode
2. Move the next content by pressing “UP/DOWN” (△/▽) Key (“*” mark is showing the present selected content), and then press **START STOP** Key to choose the content or press **C** Key to exit the mode.
3. After choosing the content, the target content will be highlighted in yellow color.
4. After changing the data, press the **8 SAVE** Key to save them, otherwise the data will remain unchanged

NO	CONTENTS	DESCRIPTION	DEFAULT SETTING
1	REJECT SIZE	Set Maximum Reject note capacity from 10 to 100	50
2	EXT-DEVICE	Set the External Device between External Display and Printer (Refer to the detail setting)	EXT-DISPLAY1
3	DENSITY	Set the Density Level from -4 to 9 or AUTO for Count Mode ONLY. Lower value is less sensitive and higher value is more sensitive setting	AUTO
4	LANGUAGE	Set the Language shown in Display	ENGLISH
5	CF DISP	Set the “CF” display function as ON or OFF	ON
6	REJECT DISP	Set the reject No. display function as ON or OFF	ON
7	COUNT	Set the counting start function as Automatic or Manual	AUTO
8	SPEED	Set the counting speed of machine	1000
9	USER I/F	Set the PC Interface NONE or USER1	NONE
10	FIT SETTING	Set the Fitness level setting (Refer to the detail setting)	CB Standard

5. Detailed Setting of EXT-DEVICE & FIT SETTING

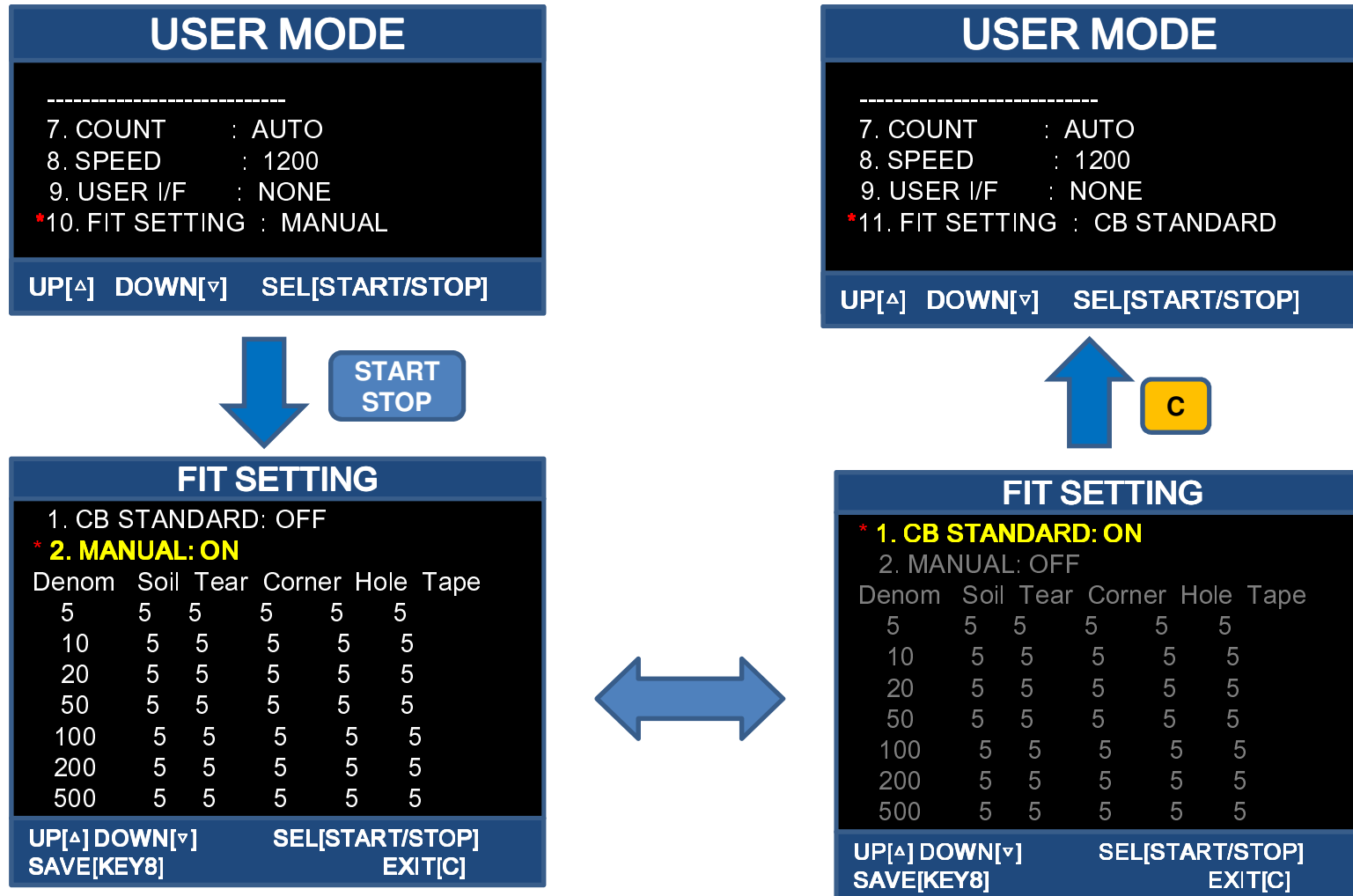
1) EXT-DEVICE




- EXT-DISPLAY 1: 1-Line External Display ON or OFF
- EXT-DISPLAY 2: 2-Line External Display ON or OFF
- OCR PRINT: AUTO or MANUAL
- Printer Set: ON or OFF
- Baud Rate: 9,600 ~ 115,200 bps (Default Setting 115,200)
- Paper Size: 2 or 3 inch (Default Setting 2 inch)
- Printing No: 1 ~ 3 pcs (Default Setting 1 pc)

- The details setting for the Highlight can be changed by pressing UP[▲]/DOWN[▼] Key
- If Printer is OFF, the BAUD RATE & PAPER SIZE & PRINTING No will be inactivated
- Press **8 SAVE** Key to save the data before exit the setting.

2) FIT SETTING



- The details setting for the Highlight can be changed by pressing UP[▲]/DOWN[▼] Key

- Press  Key to save the data before exit the setting.

FIT SETTING						
1. CB STANDARD: OFF						
* 2. MANUAL: ON						
Denom	Soil	Tear	Corner	Hole	Tape	
5	5	5	5	5	5	
10	5	5	5	5	5	
20	5	5	5	5	5	
50	5	5	5	5	5	
100	5	5	5	5	5	
200	5	5	5	5	5	
500	5	5	5	5	5	
UP[▲] DOWN[▼]			SEL[START/STOP]			
SAVE[KEY8]			EXIT[C]			

- Each Fit Setting Level can be set from 0 ~ 10
- 0 mean OFF, 10 means the most sensitive setting
- The detail setting of each level can be adjusted in Technical Mode

FIT SETTING						
* 1. CB STANDARD: ON						
2. MANUAL: OFF						
Denom	Soil	Tear	Corner	Hole	Tape	
5	5	5	5	5	5	
10	5	5	5	5	5	
20	5	5	5	5	5	
50	5	5	5	5	5	
100	5	5	5	5	5	
200	5	5	5	5	5	
500	5	5	5	5	5	
UP[▲] DOWN[▼]			SEL[START/STOP]			
SAVE[KEY8]			EXIT[C]			

- CB Standard is setting for Central Bank Test Setting Standard
- It is fixed setting, but the detail setting of each level can be adjusted in Technical Mode
- After CB Standard is ON, the Manual Setting will be inactivated

7. Error Code

NO	DISPLAY	CAUSE OF ERROR	POSSIBLE SOLUTION
1	Doubl	Double notes	<ul style="list-style-type: none"> - Check the condition of rejected note as Double - Check the gap between Feed and Reverse Roller
2	Chain	Chain notes	<ul style="list-style-type: none"> - Check the condition of rejected note as Chain - Check the gap between Feed and Reverse Roller - Check the condition of Encoder Sensor in Service Mode
3	ASN	Skew notes	<ul style="list-style-type: none"> - Check the condition of rejected note as Skew - Check the gap between Feed and Reverse Roller
4	Half	Half notes	<ul style="list-style-type: none"> - Check the rejected note condition as Half - Check the condition of Count Sensors in Service Mode
5	Face & Ort	Different Face or Orientation	<ul style="list-style-type: none"> - Check the rejected note condition as Face & Ort - Adjust CIS Sensor
6	Denom	Different Denomination	<ul style="list-style-type: none"> - Check the rejected note condition as Denom - Adjust CIS Sensor
7	Issue	Different Issue	<ul style="list-style-type: none"> - Check the rejected note condition as Issue - Adjust CIS Sensor
8	UV	UV Error	<ul style="list-style-type: none"> - Check the condition of rejected notes - Restart counting operation
9	MG	MG Error	
10	IR	IR Error	

NO	DISPLAY	CAUSE OF ERROR	POSSIBLE SOLUTION
11	Soil	Soiled Notes	<ul style="list-style-type: none"> - Check the condition of rejected notes - Restart counting operation
12	Stain	Stained Notes	
13	Oil	Oiled Notes	
14	De-Ink	De-Inked Notes	
15	Hole	Hole Notes	
16	Tear	Tear Notes	
17	Corner	Corner Folded Notes	
18	Vid	Visual (RUB Only)	
19	Graf	Graffiti (RUB Only)	
20	Old-V	Old Version (INR Only)	
21	Time1 & Time2	Processing Time Delay Error	<ul style="list-style-type: none"> - Check the condition of rejected note - Check the gap between Feed and Reverse Roller - Clean CIS Sensor
22	Reco	Recognition Error	
23	Image T1 Image R3 & R4	Image Error	

8. Accessories & Options

1) Accessories

NO	NAME	Quantity
1	Power code	1 set
2	User's Manual	1 set

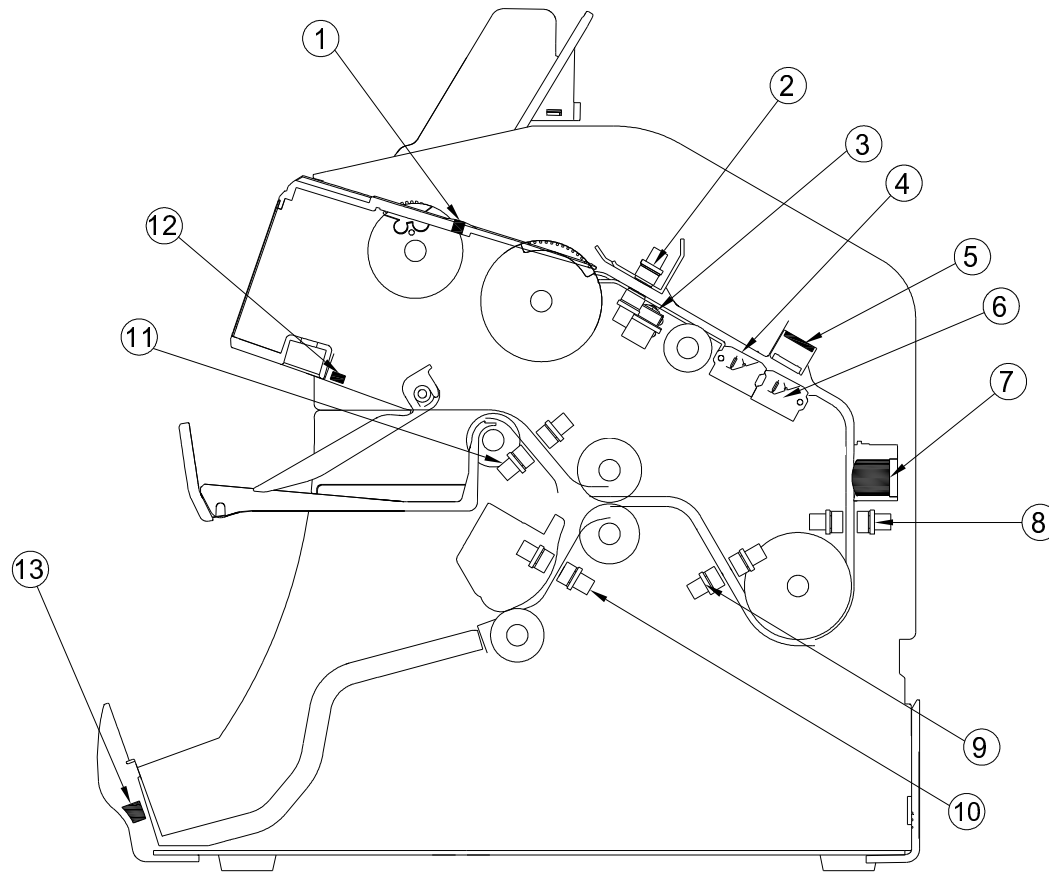
2) Options

NO	NAME
1	External Display
2	Thermal Printer (2 or 3 inch)

9. Specification

Pockets	1 Stacker & 1 Reject
Adaptable currency	USD,EURO or Local Currency
Counterfeit detection	UV, FL, MG, MT, IR
Speed	1,000 notes/ min (Piece count), 1,000 notes/ min (Detection) 700 notes/ min (Fitness)
Hopper Capacity	500 sheets
Reject Capacity	Max. 100 sheets
Stacker Capacity	300 sheets
Power	AC 110~240V 50/60 Hz
Power Consume	110W
Dimensions	284(W) x 315(D) x 277(H) mm
Weight	Approx. 14kg
LCD Size	3.2 Inch TFT Color Touch Screen
Mode	Fit , Mix, SP, Orient, Face, Count

10. Sensor Location



NO	NAME
①	Hopper Sensor
②	Counter Sensor 1 (CS1 L/R)
③	UV Sensor
④	Reflection CIS Sensor
⑤	Emitter CIS Sensor
⑥	Penetration CIS Sensor
⑦	Magnetic Sensor
⑧	Counter Sensor 2 (CS2 L/R)
⑨	Selector Sensor (SSL)
⑩	Upper Position Sensor (UPS)
⑪	Lower Position Sensor (LPS)
⑫	Reject Sensor
⑬	Stacker Sensor
Others	SENC & MENC (Encoder Sensor) LIMIT SW (Cover Open Switch)

MAGNER

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