

Magner 155 - User Guide



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Safety Instructions

General Instructions

Do not place the product near heat sources such as a stove or a heater.

Do not try to disassemble or repair the product if you are not trained and authorized. Such an unauthorized activity may cause accident or critical damage to the product and it would not be covered with the warranty.

Do not place heavy objects or liquid containers, such as a beverage can, on the product.

Do not apply excessive force to the product.

Do not try to open or operate the product by force.

Make sure to apply proper grounding through the plug. Short-circuit may cause sudden electrical shock.

Before maintenance or repairing activity, make sure to turn its power off and then start to replace with a fuse or to check the components.

Do not pull out the power cord when unplugging. Such action may cause electric shock or fire.

Safety Instructions

Operation Circumstances

Do not expose the product to the direct sunlight for normal operation and life cycle.

Avoid dusty location and place the product on the stable and non-vibrating desk.

Keep and use the product under the optimal conditions as follows:

-Temperature: 5°C~45°C (41F~113F)

-Humidity: 0%~85%(no condensation)

Do not press the LCD screen or control keys with sharp objects such as a pen or a pin.

In case of safekeeping for long period, put the cover on the product.

Safety Instructions

Banknotes Avoidance

Do not count the wet or significantly worn notes.
Do not count the torn or deformed notes. Otherwise, it may cause jam.



Damaged Banknotes



Curled Banknotes



Folded or Partial Banknotes

Safety Instructions

Caution for Operators

During operation, never put anything like clips or any other stuff except banknotes on the hopper. Surely be careful that the operator's hair, clothes or necktie would not be picked and absorbed into machine.



Straighten the folds or corners of banknotes before insertion.
Banknotes should be properly arranged and then put on the hopper as shown below for efficient operation.



Installation Guide

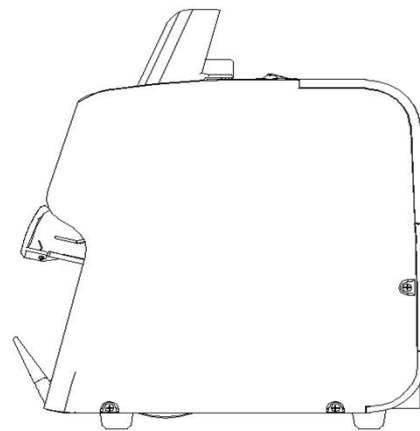
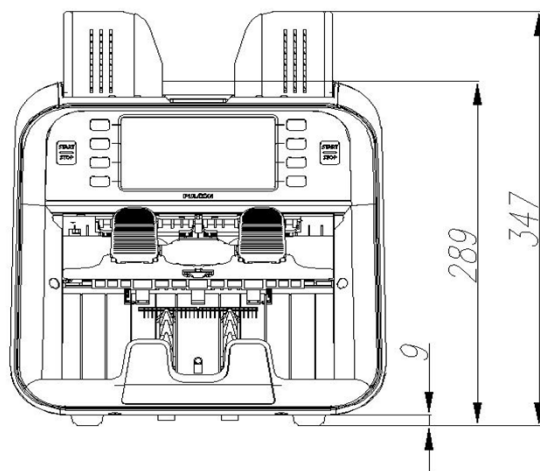
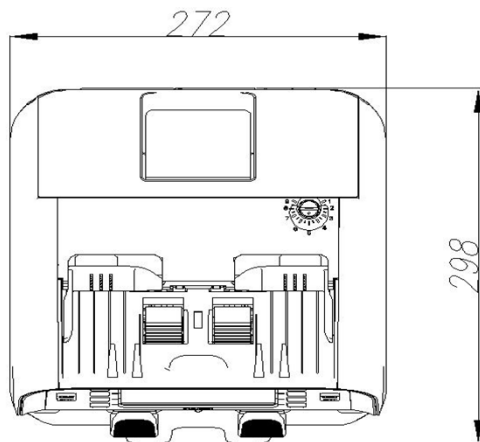
At installation

For normal installation, contact to the designated sales agent near to you.

- This product is allowed only for indoor use. Do not install outdoors.
- The product should be installed in the stable place enough to endure the weight and operation. Avoid unstable, slanting or uneven position.
- After installation, daily attention and management for the product is strongly recommended for normal and reliable operation.

Installation Space

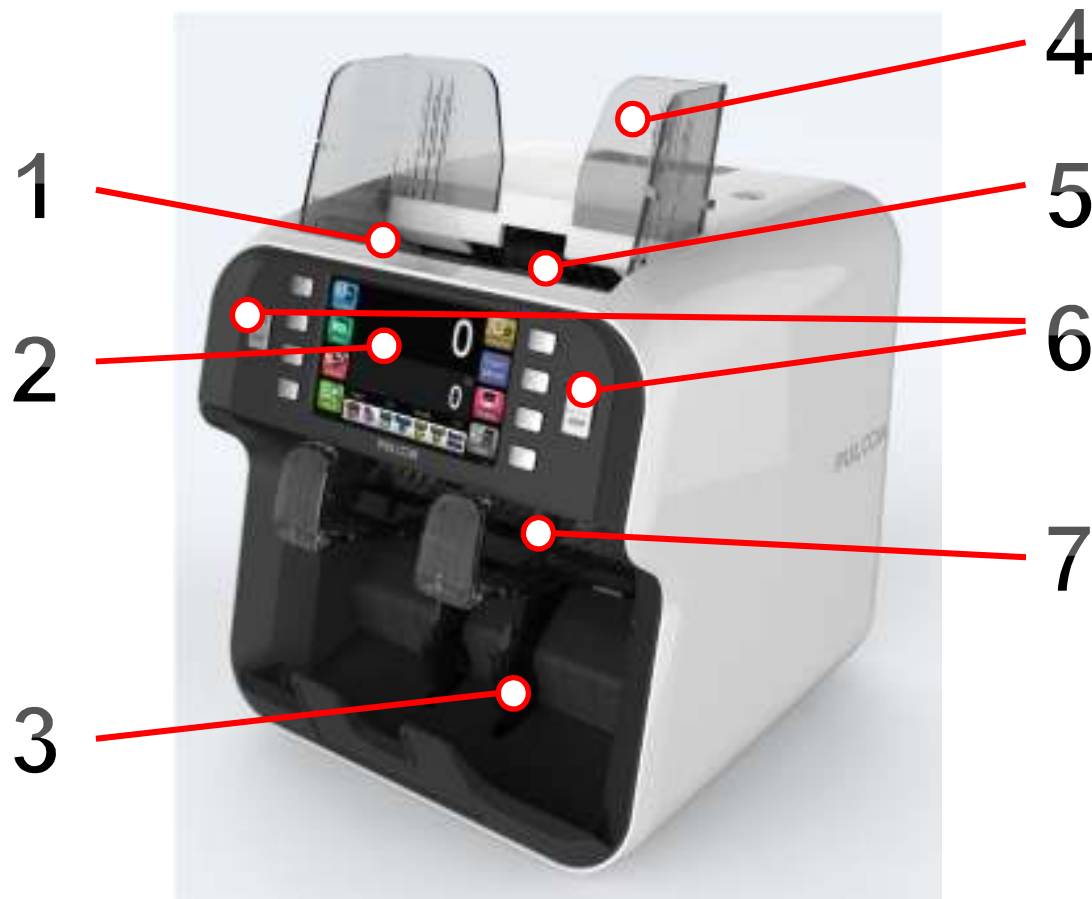
The product should be installed at the proper place having enough space for loading notes, opening/closing with ease and even simple maintenance activity.



Unit : mm

Machine Overview

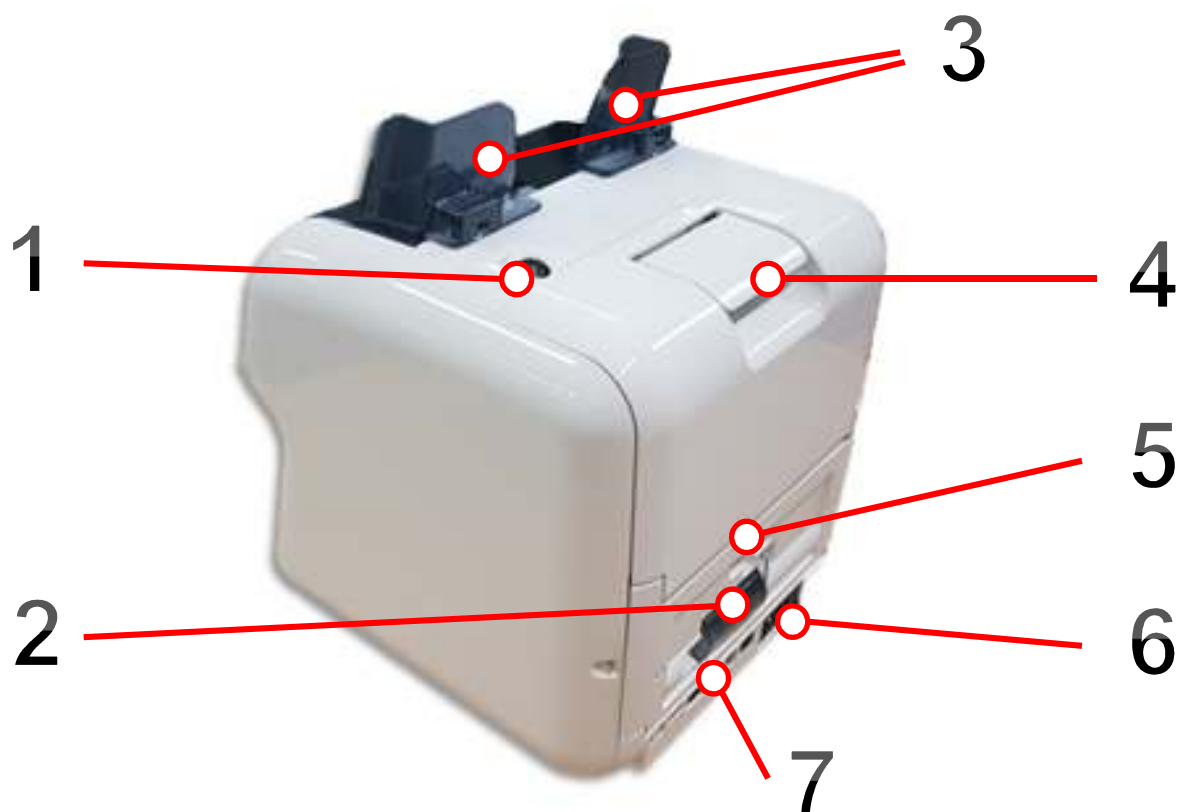
Name of Each Part (Front View)



1	Hopper	Space for Loading Notes
2	Display Panel	Direct U/I by Full Color Touch Screen
3	Stacker	Space for Counted Notes
4	Hopper guide	Adjustable Guides to Note Size
5	Pickup Roller	Pick-up Roller to Feed Notes for Counting
6	Operation buttons	Start/Stop Keys for Counting
7	Reject Stacker	Space for Rejected Notes

Installation Guide

Name of Each Part (Rear View)



1	Feed gap Adjustment	Adjustment screw for feed gap size
2	Dust Pocket	Pocket for Collecting Dust on Operation
3	Hopper guide	Adjustable Guides to Note Size
4	Upper cover lever	Latch Handle to Open Upper Cover
5	Low cover lever	Latch Handle to Open Lower Cover
6	Power switch	Switch for Power On/Off
7	I/O port	I/O port (Refer to "I/O port" on 11 page)

Installation Guide

Description on Control Panel



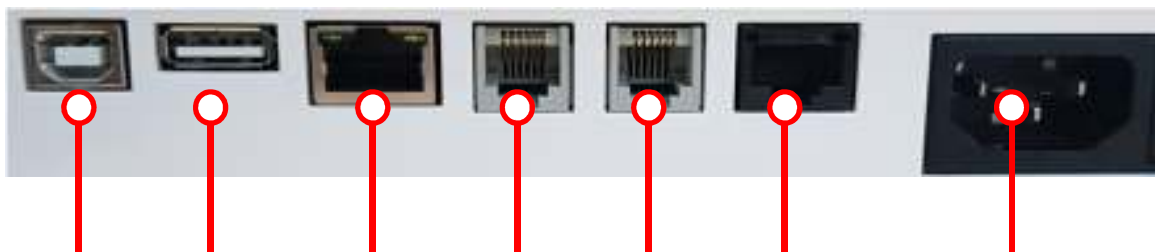
1 Start/Stop Button
2 Function Keys

3 Status Band
4 Menu icons
5 LCD Screen

To Start/Stop
To select the function (equal to using touch key)
To show current settings
To show the menu available
To show the number and the amount of notes

Installation Guide

Description on I/O PORT

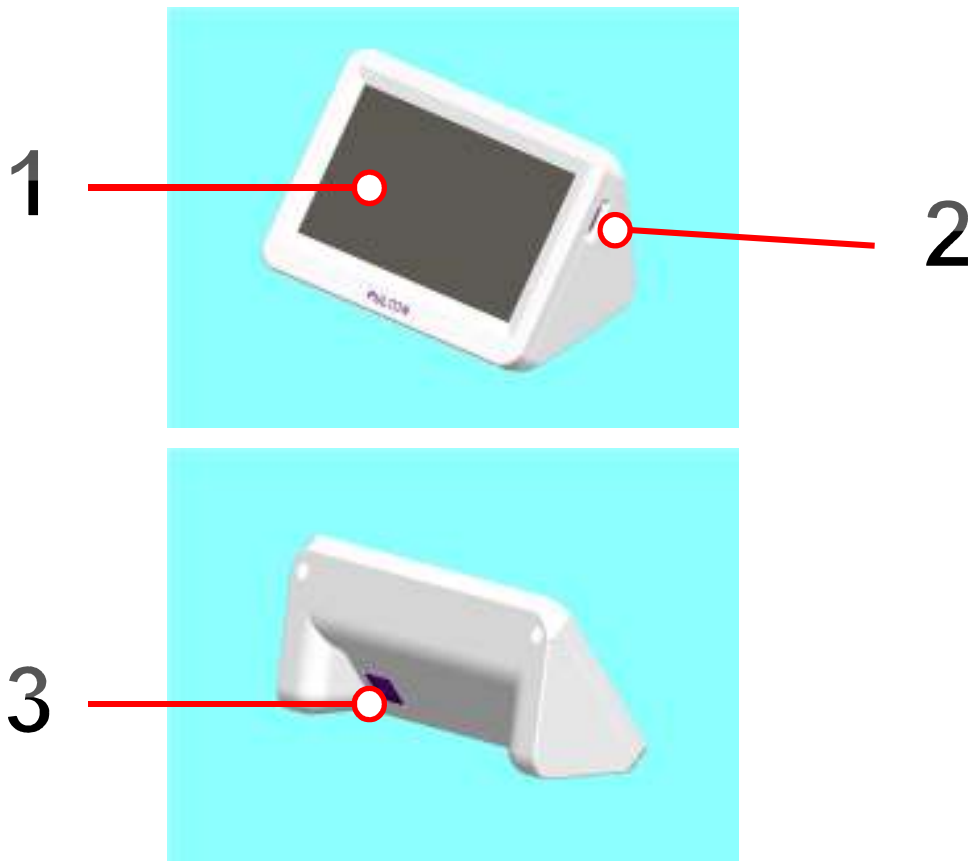


Port No.	CON6	CON4	CON5	CON3	CON2	CON1	Input Power
Pin	4	4	8	6	6	8	3
Spec.	USB2.0	USB2.0	LAN	Serial communication			100~240V AC
USE	Device	Host	Ethernet	Printer	Display	Display2	

*Recommended Printers are STP-103 III, IDP-3550, TSP-600, TM-881V

Installation Guide

External Display (optional)



- | | | |
|---|--------------------|---------------------------------------|
| 1 | Display Panel | Full color graphical display. |
| 2 | Micro SD port | Micro SD saves icon & background data |
| 3 | EE7 interface port | Port is linked to the EE7 |

User Settings

Summary of Each Setting

Description of each setting can be found on the following pages



	Default setting	Page
Currency		14
Add up	Add up	15
CF	CF Run	18
Single/mix	Mix	18
Auto/Manual	Auto	19
Batch	100	19
Service		20
Language	English	26
Digit mark	1,000	26
Beep	On	27
Time	Present time	27
Old/New	OLD&NEW	28
Capacity	S-100, R-50	28
Speed	1000	29
Cyclone	On	29

Select Currency

Select Currency for counting

A range of currencies registered within the EE7 firmware are displayed but the currency with active data table could be counted and evaluated.

1) Press the button below to enter the currency select menu.



2) Press national symbol to select currency.




*The currency name and icon will be shown in the Status Band to indicate the selected currency

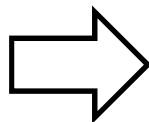
User Settings

ADD UP

Select ADD UP mode

When activated, the current amount and number of banknotes are added up to the total counting. Even though the banknotes are removed from the pocket, it is still displayed until the button, , is pressed.

1) Press the button below to operate the EE7 in a accumulative count mode.



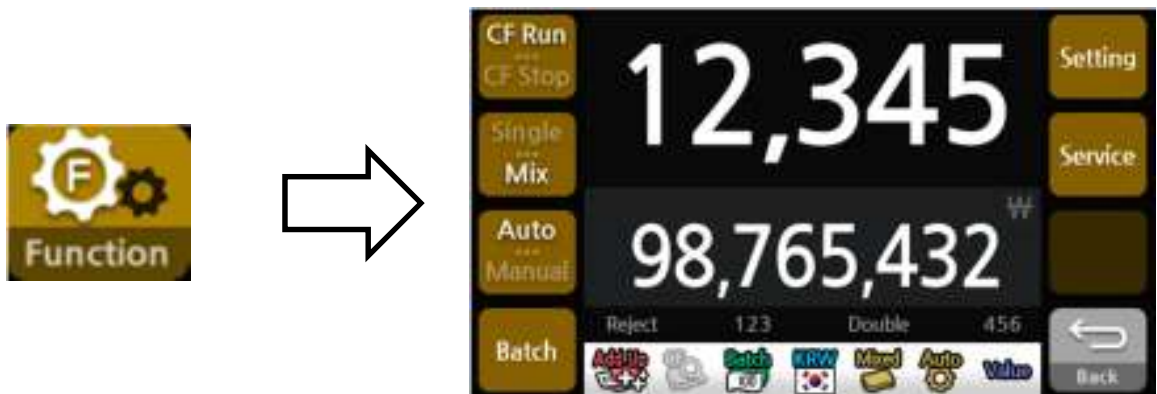
*The Accumulative count mode symbol will change on the screen to indicate the selected mode

Function

How to Set the Function

Each setting item has to be set prior to use

1) Press the button below to enter the function menu



2) Press the function button to use among



3) When finishing the selection of the function, press



button to exit the function selection mode.

User Settings

List of Functions

1. CF RUN
/CF STOP
2. SINGLE
/MIX
3. AUTO
/MANUAL
4. BATCH



5. SETTING
6. SERVICE/
F/W VER.

Description of Functions

1. CF (Counterfeit)

Decides to run or stop when a counterfeit is detected.


1) Press  button to select setting.



*The CF symbol will appear/disappear on the screen when a counterfeit is detected.

2. Single / Mix

Single mode is to count the designated denomination only, which is recognized for the first time. If the notes are different from the designated denomination, the machine will send other notes to the reject pocket under Single Mode.

1) Press  button to select the single or mix.



*The Single/Mix symbol will appear on the screen to indicate the selected state.

User Settings

3. Auto / Manual

Automatic counting would be started when the notes are set in the hopper under AUTO mode. In case of Manual, the counting would start only when press the START button.

1) Press  button to select setting.



*The Auto/Manual symbol will change on the screen to indicate the selected state.

4. Batch

The number of notes could be counted by specifying the batch size.

1) Press  button.

2) Set the batch size by putting the wanted number.

3) When finishing, press the  button to exit the batch setting menu.



*The Batch number will change on the screen to indicate the batch number.

5. Setting

Refer to "Setting" on 24 page.

6. Service and F/W versions check

Check and adjust the EE7

1) Press  button.



2) Press  after press passwords.



3) Press Service buttons to set the each setting.

4) When finishing, press the  button to exit the service menu.

User Settings

List of Service

Versions of F/W

1	Template Ver	Service #1		SNR Mode	5
		Model	EAGLE EYE-7		
		Type	VS		
2	Black Box	UI Ver	1.02	Recog Data	6
		O/S Ver	0.00		
3	Sensor	Reco F/W Ver	0.00		
		Mecha F/W Ver	0.00		
		Tape F/W Ver	0.00		
4	Calibration	FPGA Ver	0.00		
		Sonar Ver	0.00	Back	
7	Recog On/Off	Service #2		Up grade	11
		Model	EAGLE EYE-7		
		Type	VS		
8	Recog Level	UI Ver	1.02		
		O/S Ver	0.00		
9	Interface	Reco F/W Ver	0.00		
		Mecha F/W Ver	0.00		
		Tape F/W Ver	0.00		
10	PW	FPGA Ver	0.00	Back	
		Sonar Ver	0.00		
12	Diagnostic	Service #3			
		Model	EAGLE EYE-7		
		Type	VS		
13	Device Type	UI Ver	1.02		
		O/S Ver	0.00		
		Reco F/W Ver	0.00		
		Mecha F/W Ver	0.00		
		Tape F/W Ver	0.00		
		FPGA Ver	0.00		
		Sonar Ver	0.00	Back	

User Settings

Service

No.	Service Menu	Sub Menu	
1	Template Version		To obtain Template Version
2	Black Box		Display the history of this machine since factory shipment.
3	Sensor		To check sensors state
4	Calibration	CIS	CIS Calibration
		CIS-R	CIS Calibration
		MR	
		UV	UV Sensor Calibration
		Tape	Tape Sensor Calibration(FS,FSD-only)
		Sonar	Sonar Sensor Calibration(VS,VSD-only)
		Touch screen	Touch screen Calibration
5	SNR Mode	Normal	Displays the more accurate of the serial numbers in the banknote
		Compare	Make sure that the serial numbers in the banknote are the same
6	Recognition Data	Image Data	To obtain Image Data using USB (100DPI)
		Dimage Data	To obtain saved Image Data using USB(25 DPI)
		MR Data	To obtain MR Data using USB
		Tape Data	To obtain Taped Notes Data using USB
		UV Data	To obtain UV Data using USB
7	Recognition On/OFF		Turn on/off for CF,MR,UV,IMAGE
8	Recognition Level		To set MR, UV, Image, Double, Fitness Level from 1 to 100 Levels

User Settings

Service

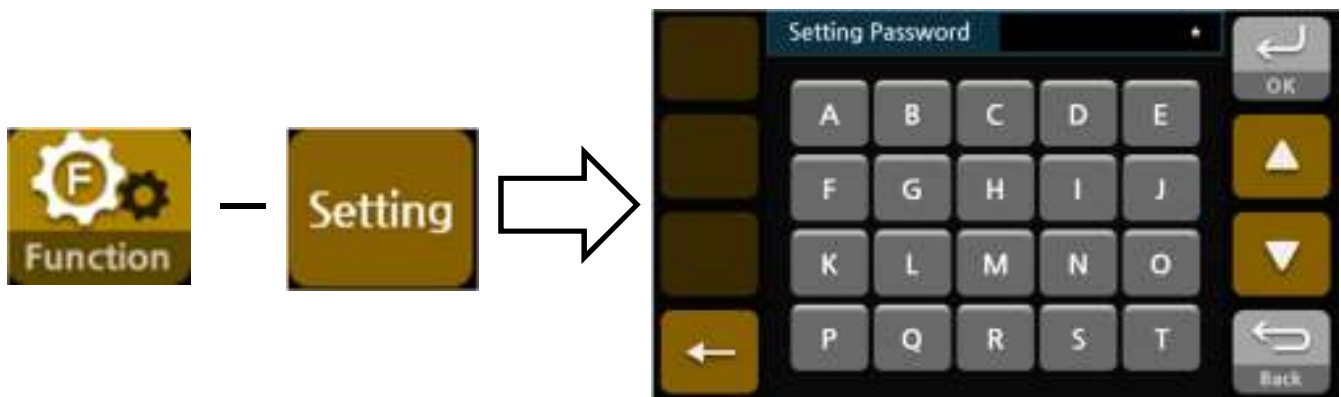
No.	Service Menu	Sub Menu	
9	Interface	Print	To set Baud rate, Data Bit, Stop Bit, Parity. Column, Cutting Code about Print
		Network	To set IP, Subnet mask, Gate Way, DNS, Port, Fixed IP
		External Display	To set 7 Segment, LCD Single, LCD Double
10	PW		Setting the ID/Password
11	Upgrade	Mecha F/W	To Upgrade Mecha firmware using USB
		Recog F/W	To Upgrade Recog firmware using USB
		UI S/W	To Upgrade UI software using USB
		Template	To Upgrade Template using USB
		Tape F/W	To Upgrade Tape firmware using USB (FS,FSD-only)
		Sonar F/W	To Upgrade Sonar firmware using USB (VS,VSD-only)
12	Diagnostic	Pick-up Motor	To drive the Pick-up motor during 10 sec.
		Feed Motor	To drive the Feed motor during 10 sec.
		Fan Motor	To drive the Fan motor during 10 sec.
		Swing Selector	Turn it on and off repeatedly 5 times.
		Circulation	To drive every motor.
		Count	Emit notes with Stack or Reject

Settings

How to Change the Settings

Each setting item has to be set prior to use

1) Press the buttons below to enter the setting password menu



2) Press  after press passwords.



3) Press  button to set the each setting.

4) When finishing, press the  button to exit the setting menu.

User Settings

List of Settings

1. LANGUAGE

2. DIGIT
MARK

3. BEEP

4. TIME

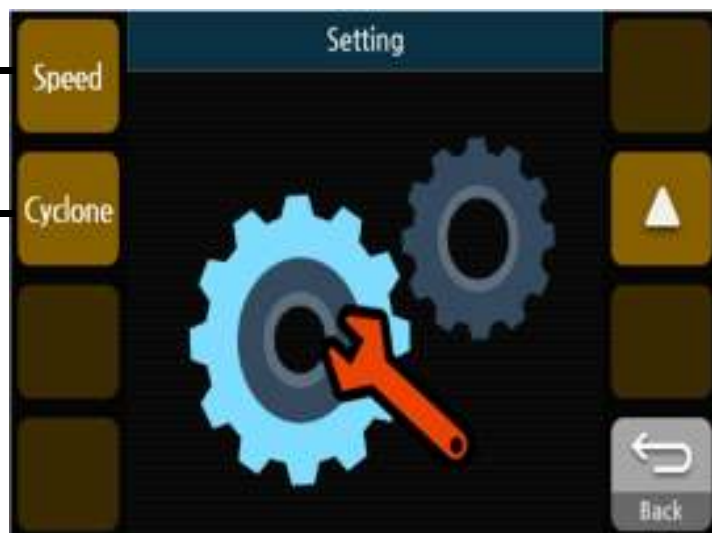


5. OLD/NEW

6. CAPACITY

7. SPEED


8. CYCLONE



Description of Settings

1. Language

Select language for the display. Choose from English or, another registered language.

1) Press   button to select language.



2. Digit Mark

Select the digit mark to display the amount of money.


1) Press   button to select digit mark style.

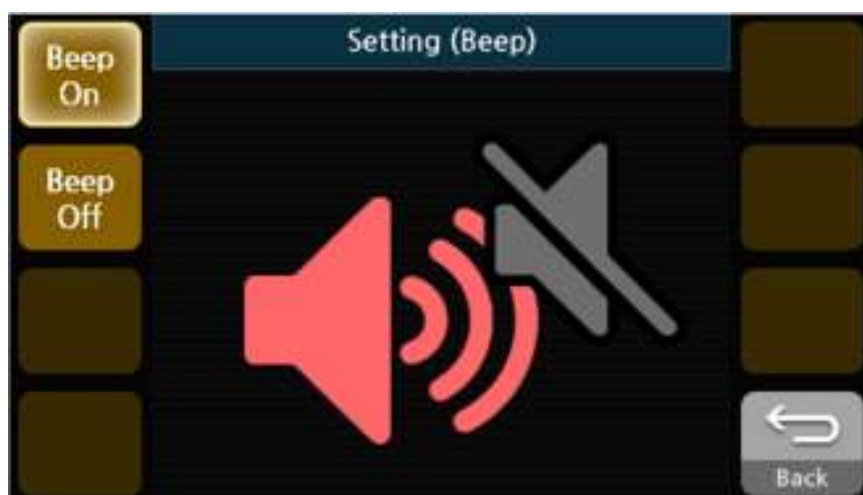


User Settings

3. Beep


Turn ON or OFF the Beep. If beep setting is ON, the beep tone will be generated when button is pressed.

- 1) Press   button to select turn on or off.



4. Time

Setting the date and time.

- 1) Press date or time button to select item.
2) Press numbers to adjust data or time.
3) Press  button to set.



5. Setting Old/New

Counts separately between the old banknotes and the new ones.

1) Press  button to select setting.



6. Setting Capacity

Sets the maximum capacity of the stacker and reject.

1) Press stacker capacity button and reject capacity button.



*If select S-500 ,stacker should be emptied every 200 notes.

User Settings

7. Setting Speed

The EE7 offers with three speeds; 800 / 1000 NPM (Notes per Minute)

1) Press   button to select EE7 speed.



8. Setting Cyclone

Turn ON or OFF the Cyclone. If Cyclone setting is ON, dusts collected in dust pocket during the operation.

1) Press   button to select turn on or off.

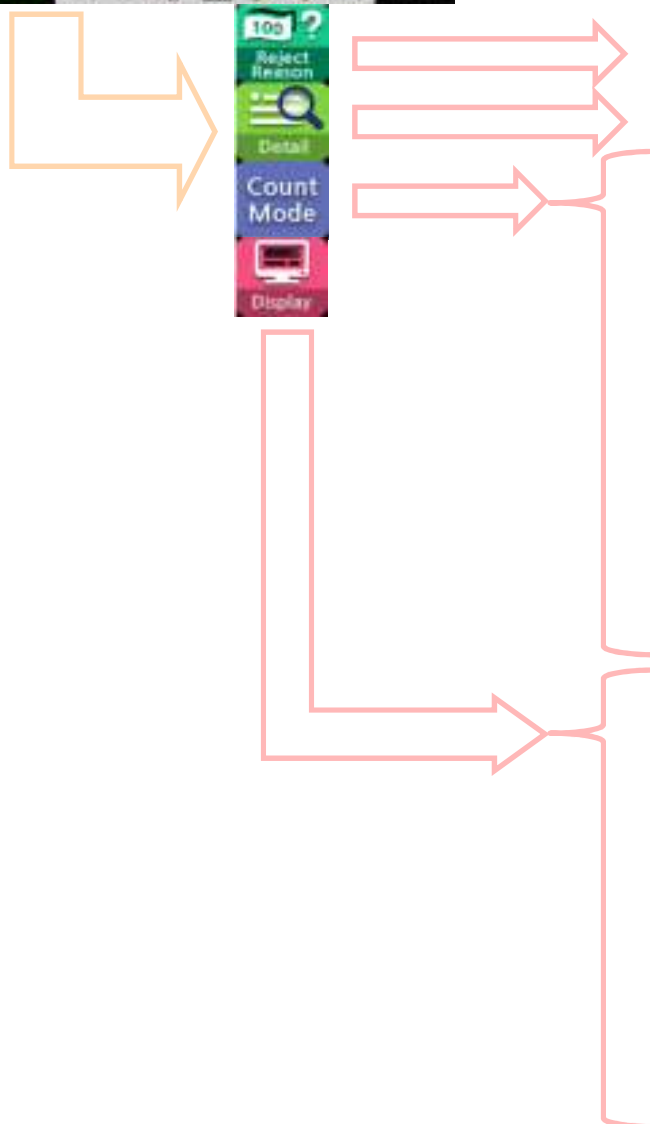


User Settings

Operation

Summary of Operation

Description of each setting can be found on the following pages



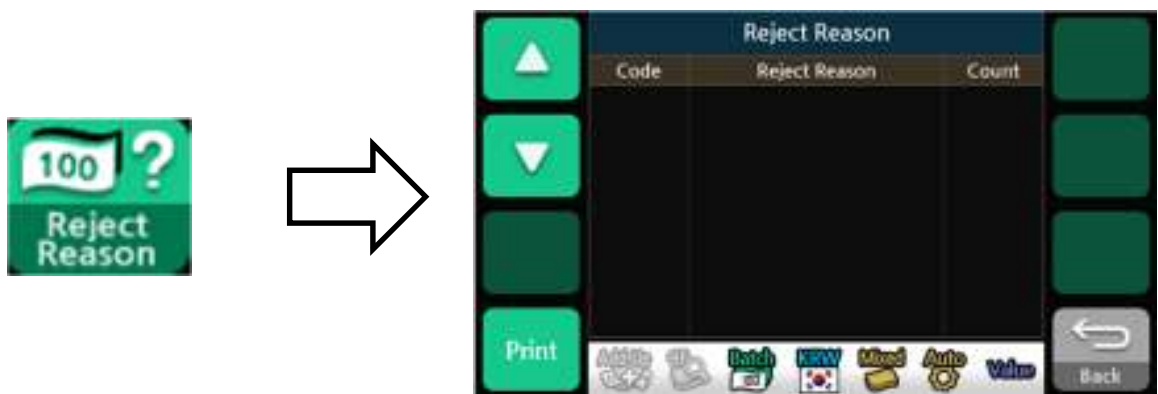
	Default setting	page
Reject reason	none	32
Detail	none	33
Count	Value	36
Value		36
Face		37
Orient		37
Face & Orient		38
Fitness Sort		38,39
Serial Number		39
Serial No info.	none	42
Black List		43
Count Log		44
Sort up/down	down	44
Total	none	45
Sub Total		45
Grand Total		46

Reject Reason

To display the reason of rejected banknotes

It displays the reject codes, reject reasons and the number of the rejected up to the reject code

1) Press the button below to enter the reject reason menu.



2) When finishing, press the



button to exit the reject reason menu.

*If an external printer is connected and enabled, pressing Print button will transmit the reject reason data to the printer

Operation

Detail

Confirm the count

The table shows the denomination, the number of each denomination and the amount of the summation value to each denomination.

1) Press the button below to confirm the detail counting results.



2) When finishing, press the



button to exit the detail table.

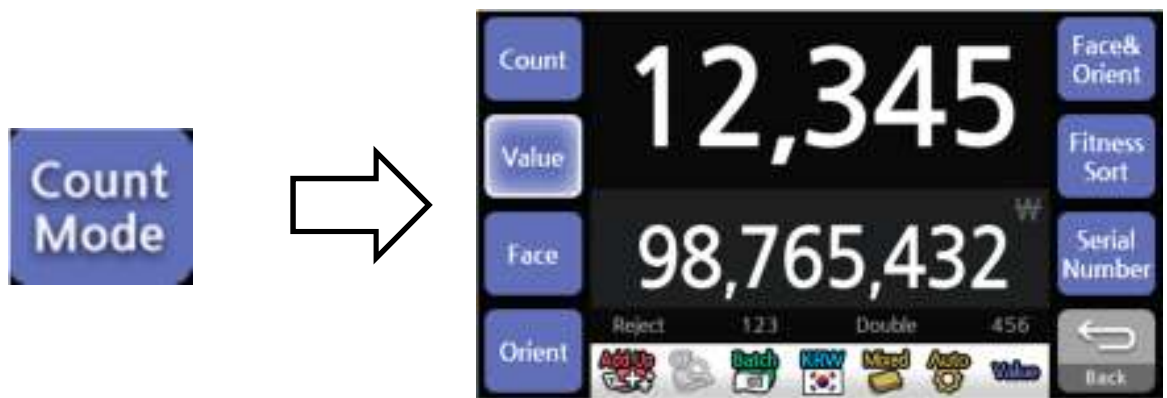
*When you start counting on the detail mode, it automatically switches to normal mode. When the counting is finished, it returns to the detail mode again.

Count Mode

How to Select the Count Option

Each count mode has to be set prior to use

1) Press the button below to enter the count mode menu



2) Press  button to set the each setting.



3) When finishing, press the



button to exit the count mode menu.

Operation

List of Count Modes

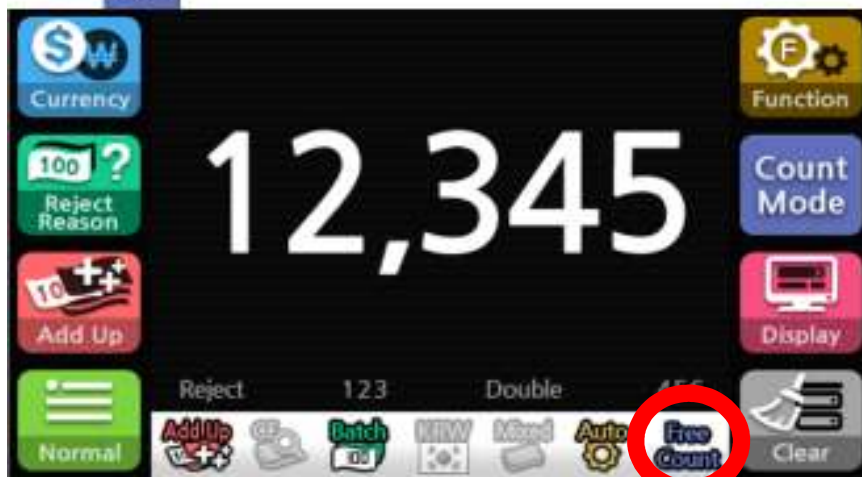


Description of Count Mode

1. Count

To count the total number of banknotes without recognition of denomination.

- 1) Press **Count** button to select free count mode.



- *The Free count symbol will appear on the screen to indicate the selected state.
- *The count mode doesn't offer the detail menu.

2. Value

To count the total number of banknotes with recognition of denomination.

- 1) Press **Value** button to select value mode.



	Deno.	Count	Amount
w	1,000	123	w 123,456,789
w	5,000	246	w 123,456,789
w	10,000	369	w 123,456,789
w	50,000	492	w 123,456,789
Total		1,230	w 493,827,156

- *The Value symbol will appear on the screen to indicate the selected state.
- *To confirm the denomination and count, press **Detail** button.

Operation

3. Face

To count by same side(front/back) of the banknote which is counted at first. If the note is not the same side, the machine will send the banknote to the reject pocket.

1) Press **Face** button to select face mode.



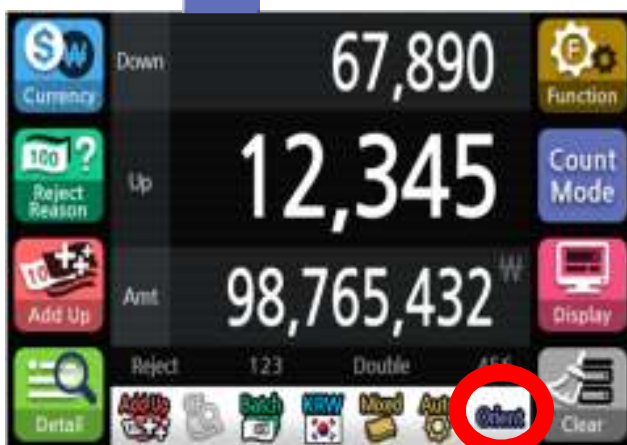
*The face symbol will appear on the screen to indicate the selected state.

*To confirm the denomination and face count, press **Detail** button.

4. Orient

To count by same direction(UP/Down) of the banknote which is counted at first. If the note is not the same direction, the machine will send the banknote to the reject pocket.

1) Press **Orient** button to select orient mode.




*The Orient symbol will appear on the screen to indicate the selected state.

*To confirm the denomination and orient count, press **Detail** button.

5. Face & Orient


To count by same side(front/back) and same direction(UP/Down) of the banknote which is initially counted.
If the note is not the same side and direction, the machine will send the banknote to the reject pocket.

1) Press  button to select Face & Orient mode.




Deno.	Face&Up	Other	Amount
w 1,000	123	456	w 123,456,789
w 5,000	246	912	w 123,456,789
w 10,000	369	1,368	w 123,456,789
w 50,000	492	1,824	w 123,456,789
Total	1,230	4,560	w 493,827,156

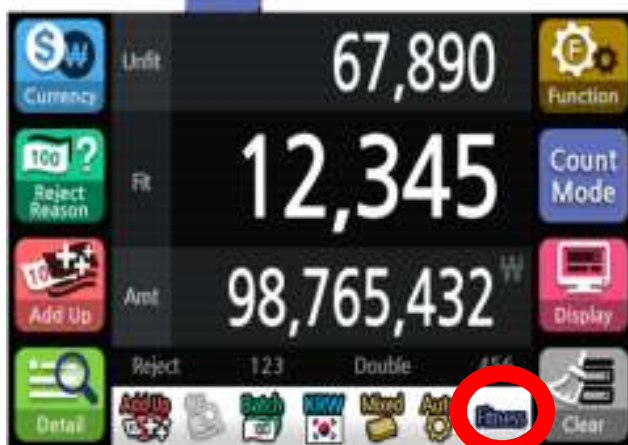
*The Face & Orient symbol will appear on the screen to indicate the selected state.

*To confirm the denomination and face & orient count, press  button.

6. Fitness Sort

To sort out fit and unfit banknotes separately.

1) Press  button to select Fitness Sort mode.



Deno.	Fit	Unfit	Amount
w 1,000	123	456	w 123,456,789
w 5,000	246	912	w 123,456,789
w 10,000	369	1,368	w 123,456,789
w 50,000	492	1,824	w 123,456,789
Total	1,230	4,560	w 493,827,156

*The Fitness symbol will appear on the screen to indicate the selected state.

*To confirm the denomination and Fitness count, press  button.


*Press  -  -  button to select the level of fitness.

*This mode is not available on EE7 VS model.

Operation

6.1. Fitness Second Sort

If Counterfeit notes are Detected after First Fitness sort , Second Sort Mode will Start Automatically.


- 1) Press  button to Run Second sort at message
- 2) Clear Notes in Stack and Move Notes in Reject bin to Hopper.



*To Stop Second sort Press  after Run Message.

7. Serial Number


Recognizes the series number of the banknote and shows it on the display.

- 1) Press  button to select Serial Number mode.



*The Serial Number symbol will appear on the screen to indicate the selected state.

*To confirm the denomination and the serial number of the last banknote, press  button.

*To confirm the Serial number information, using  menu.

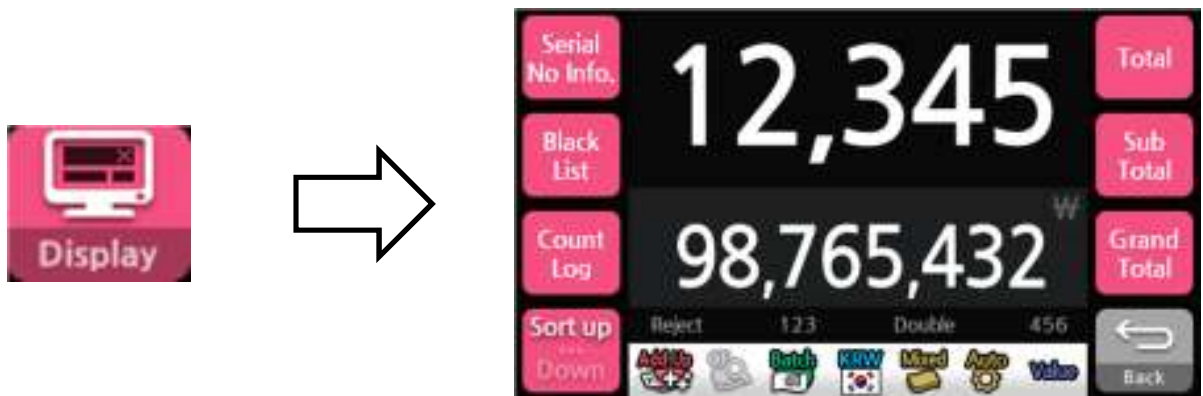
*The speed of Serial number recognition is fixed at 800 notes/min.

Display

How to Set the Display

Each setting item has to be set prior to use

1) Press the button below to enter the function menu



2) Press



button to set the each setting.

3) When finishing, press the



button to exit the display menu.

Operation


List of Display



Description of Display

1. Serial Number Information

This table shows the time and date obtained, the denomination value and the serial numbers.

1) Press  button to select serial number information.

Search

Edit

Print

Serial No.

Page: 0001/0003

Date	Deno.	Serial No.
2016/06/21 11:45:33	50000 ₩	9M9Z8J8D7C2
2016/11/05 08:43:19	1000 ₩	3I7J5Y4U3O3
2016/12/21 13:54:06	1000 ₩	0E1G1C0Z6N3
2016/06/12 02:23:09	50000 ₩	4E6K7A1I8F6
2015/03/13 15:15:09	5000 ₩	0R1A6Y8V3C1
2016/12/16 10:16:37	5000 ₩	8E6Z4U3P1P5
2016/07/06 14:55:59	50000 ₩	9M2D4P8Q5A2
2016/03/01 16:56:18	1000 ₩	5Z1E9C4Z0A0
2016/01/28 20:37:14	5000 ₩	4X1B4B4U3M0
2015/11/22 01:45:23	1000 ₩	7C7V1B6Y1R6

Clear All

▲

▼

↩

Back

Add Up

CF

Batch

KRW

Mixed

Auto

Free Count

To search the serial number information, press  button

By Date

By Deno

By Serial No

Black List

Serial No.

Page: 0001/0003

Search

Clear

▲

▼

↩

Back

Date	Deno.	Serial No.
2016/06/21 11:45:33	50000 ₩	9M9Z8J8D7C2
2016/11/05 08:43:19	1000 ₩	3I7J5Y4U3O3
2016/12/21 13:54:06	1000 ₩	0E1G1C0Z6N3
2016/06/12 02:23:09	50000 ₩	4E6K7A1I8F6
2015/03/13 15:15:09	5000 ₩	0R1A6Y8V3C1
2016/12/16 10:16:37	5000 ₩	8E6Z4U3P1P5
2016/07/06 14:55:59	50000 ₩	9M2D4P8Q5A2
2016/03/01 16:56:18	1000 ₩	5Z1E9C4Z0A0
2016/01/28 20:37:14	5000 ₩	4X1B4B4U3M0
2015/11/22 01:45:23	1000 ₩	7C7V1B6Y1R6

Add Up

CF


Batch

KRW

Mixed

Auto

Free Count

*If an external printer is fitted and enabled, pressing  button will transmit the serial number information to the Printer

*To remove serial number information, press  button

Operation

2. Black List

This table shows black list registration date, denomination value, the serial numbers. If the serial number of banknote is in black list, the machine will send the banknote to the reject pocket.

1) Press **Black List** button to select black list.

Search

Edit

Print

Black List

Page: 0001/0003

Date	Deno.	Serial No.
2015/12/04 07:50:48	10000 W	3X4C9F2N0X8
2016/04/27 20:12:35	50000 W	0Y7Q4N9W5O2
2015/08/14 23:56:17	50000 W	5K3K9A8U0Z0
2015/11/22 15:24:49	50000 W	8Z0J5A1V8V4
2015/12/29 03:59:13	50000 W	9L3S1Y2I4R2
2016/10/30 08:39:27	50000 W	7Z6J9R4N5C6
2015/10/14 11:29:35	50000 W	1A1K8W4V2I8
2016/05/11 08:42:56	50000 W	5O1X8V7I6M0
2015/10/16 15:43:58	50000 W	7V8M9S1H9W4
2016/09/02 08:43:08	50000 W	4F4O3Y9N0P7

Add Up

Batch

NEW

Mixed

Auto

Free Count

Clear All

▲

▼

↶

Back

To search the black list, press **Search** button

By Date

By Deno

By Serial No

Black List

Serial No.

Page: 0001/0003

Date

Deno.

Serial No.

2016/06/21 11:45:33

50000 W

9M9Z8I8D7C2

2016/11/05 08:43:19

1000 W

3I7J5Y4U3O3

2016/12/21 13:54:06

1000 W

0E1G1C0Z6N3

2016/06/12 02:23:09

50000 W

4E6K7A1I8F6

2015/03/13 15:15:09

5000 W

0R1A6Y8V3C1

2016/12/16 10:16:37

5000 W

8E6Z4U3P1P5

2016/07/06 14:55:59

50000 W

9M2D4P8Q5A2

2016/03/01 16:56:18

1000 W

5Z1E9C4Z0A0

2016/01/28 20:37:14

5000 W

4X1B4B4U3M0

2015/11/22 01:45:23

1000 W

7C7V1B6Y1R6

Search Clear

▲

▼

↶

Back

Add-Up

Batch

MRW

Mixed

Auto


Free Count

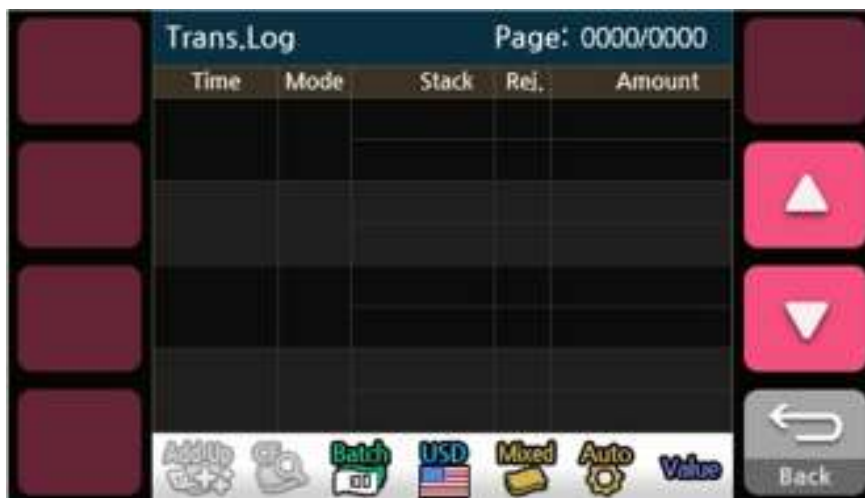
*If an external printer is fitted and enabled, pressing **Print** button will transmit the black list information to the Printer

*To remove black list information, press **Clear All** button

3. Count Log

This table shows count log.

- 1) Press  button to select count log.
- 2) To set the time the log was recorded.



4. Sort up/down

Decide to sort method.

- 1) Press  button to select setting.

Operation

5. Total

To show the denomination and the number of banknotes and the total amount of the banknotes counted.

1) Press **Total** button to select setting.

Deno.	Count	Amount
₩ 1,000	0	₩ 0
₩ 5,000	0	₩ 0
₩ 10,000	0	₩ 0
₩ 50,000	0	₩ 0
Total		₩ 0

6. Sub Total

To show the denomination and number of banknotes, the total amount of the banknotes received from Total

1) Press **Sub Total** button to select setting.

Caution

Add Total to Sub Total ?

Yes No

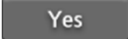
*Press **Yes** button to transfer the count value to the sub total.

7. Grand Total

Show the denomination and number of banknotes, the total amount of the banknotes received from sub total

1) Press  button to select setting.



*Press  button to transfer the count value of sub total to the grand total.

Daily Maintenance

Maintenance

Maintenance Method

No.	Check Point	Maintenance Method	Cycle	Remarks
1	Hopper Sensor and Rollers	Cleaning	Daily	48 Page
2	Detection sensors	Cleaning	Daily	49 Page
3	Stacker sensor and reject stacker sensor	Cleaning	Daily	50 Page
4	Diverter sensor	Cleaning	Daily	51 Page
5	Dust pocket	Clean and empty the dust pocket.	2 month	51 Page
6	Pick-UP Roller	Check strain	6 month	Replacement by trained person
7	CABLE and CONNECTOR	Check exfoliation and disconnect	6 month	Replacement by trained person
8	PATH SENSORS	Using Service-Sensor Menu	6 month	Replacement by trained person
9	Motors	Using Service-Diagnostic Menu	6 month	Replacement by trained person
10	TIMING BELT	Check abnormal noise and belt deviation	6 month	Replacement by trained person

Daily Maintenance

Miscounting may be caused if dust, dirt, and other materials get stuck or clutter the sensors. It is necessary to clean the sensors and rollers with an attached cleaner once a day.



CAUTION

Turn off the power switch before cleaning.

otherwise, this may result an electric shock or injury.

Do not use chemicals such as benzene, thinner, or water.

use of such may result in discoloring or breakage.

Guide for Components

The hopper sensor and rollers

Clean the Inlet sensor and the roller as shown in the photo below with a soft cotton towel or a brush.



<Inlet Sensor and Rollers>

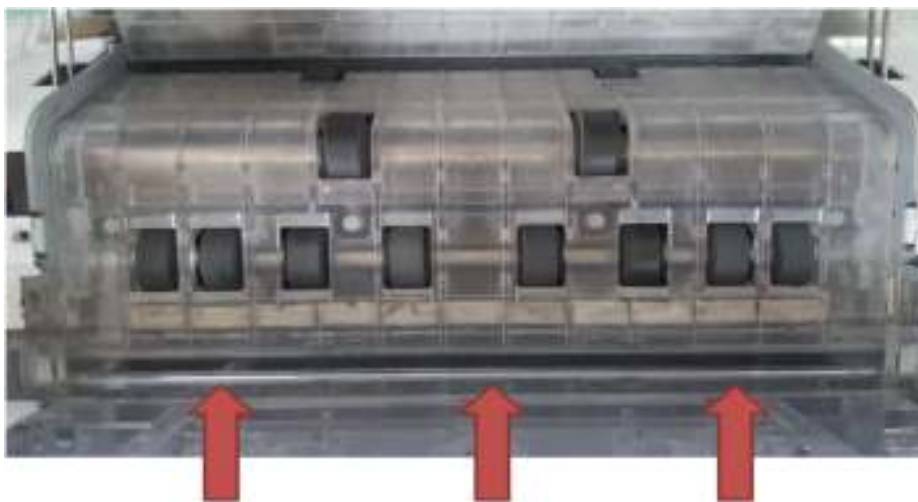
Daily Maintenance

Detection sensors

Open the upper cover by pulling the lever and clean the sensors as shown in the photo below with a soft cotton towel or a brush.



< MR and Upper CIS >



<Lower CIS>

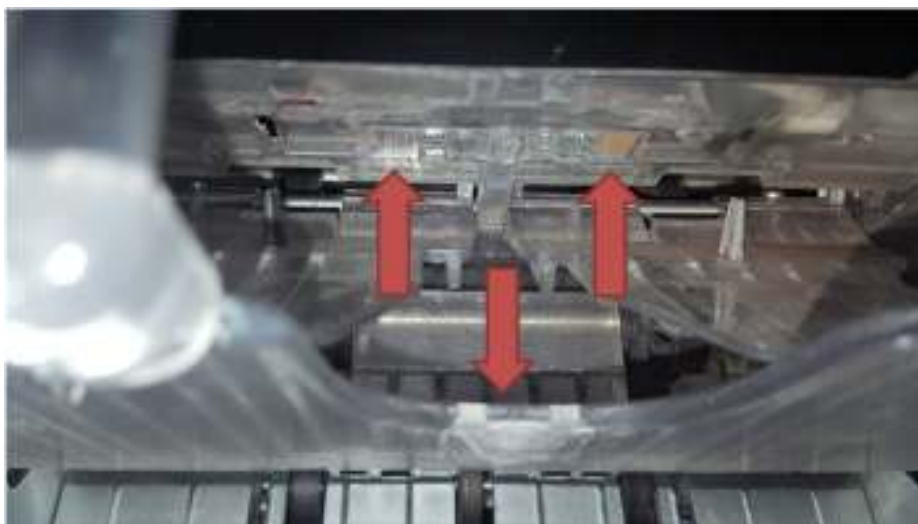
Daily Maintenance

The stacker sensor and reject stacker sensor

Clean the sensors as shown in the photo below with a soft cotton towel or a brush.



<Stack Sensor>



<Reject Sensor>

Daily Maintenance

Diverter sensor

Open the lower cover by pulling the lever and clean the sensors as shown in the photo below with a soft cotton towel or a brush.



<Diverter Sensor>

The dust pocket

Pull out a dust pocket and clean it



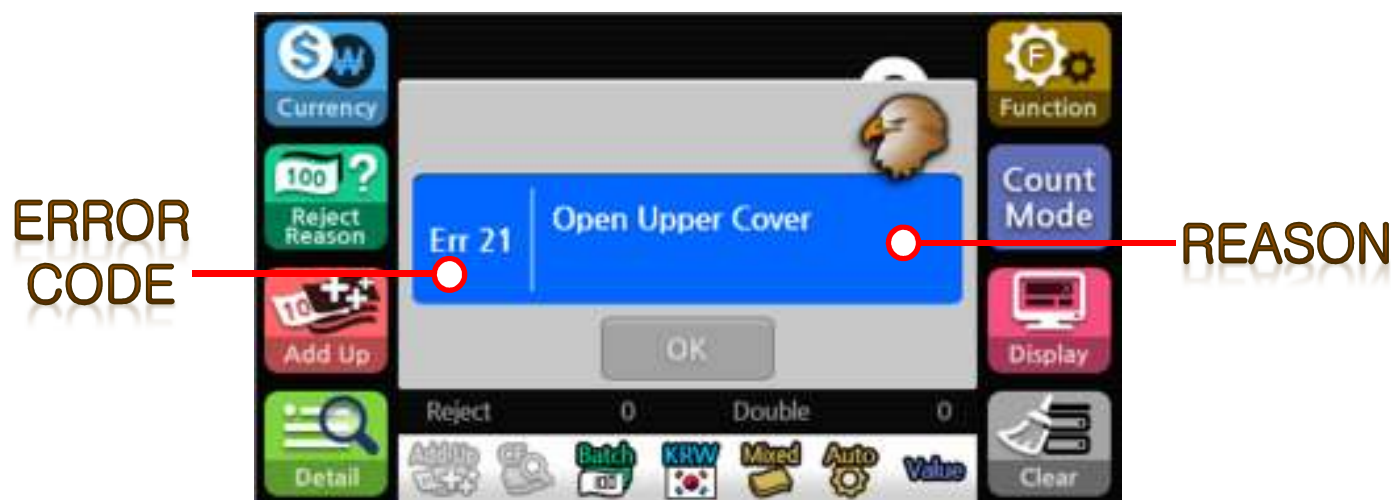
<dust pocket>

Daily Maintenance

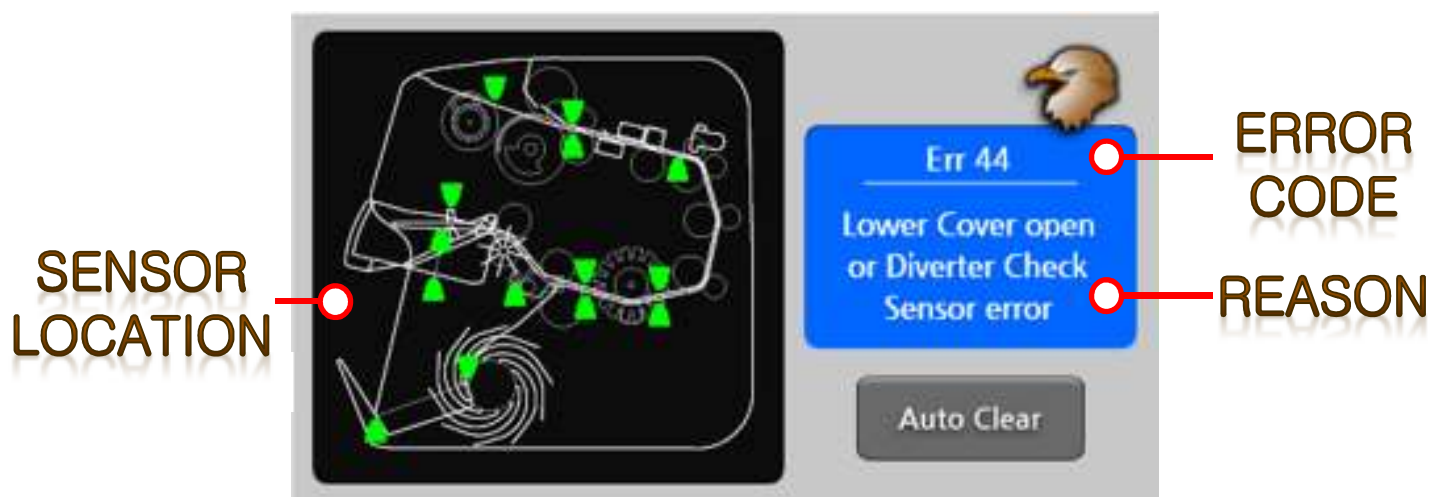
Error & Guide

When Errors Occur

If an error occurs during using, an error code is displayed on the LCD display. Find the cause of the error by the error code and follow the instructions to release the error.



*Press the **OK** button, after cleared error.



*Press the **Auto Clear** button, after cleared error.

Error Code List

Code No.	Reason	Releasing Method
01~05	Communication error	1. Turn the power switch off and on. 2. If the Error continues, please Contact to service Center.
10	Initial Inlet Sensor Fail	1. Open the upper cover and lower part. 2. Check and Cleaning the sensors.
11	Initial Check R Sensors Fail	1. Check and Cleaning the check sensors.
12	Initial Check L Sensors Fail	
13	Initial Diverter Sensor Fail	1. Check and Cleaning the diverter and diverter end sensors.
15	Initial Diverter End Sensor Fail	
16	Initial Stack Sensor Fail	1. Remove the banknotes from the stacker. 2. Check the stack sensor.
17	Initial Reject Sensor Fail	1. Remove the banknotes from the reject stacker. 2. Check the reject sensor.
18	Initial Reject Full Sensor Fail	
20	Miscount	1. Count mismatch. Please count again.
21	Guide Open	1. Close the upper cover.
22	Feed Motor Error	1. Check the feed Motor.
23	Pickup Motor Error	1. Check the pickup Motor.
24	Feed Check Error	1. Turn the power switch off and on. 2. If the Error continues, please Contact to service Center.
25	Diverter Act Error	1. Count mismatch. Please count again.
2A	Pickup Fail	1. Clean the pickup sensor and rubber.

Error & Guide

Code No.	Reason	Releasing Method
31	Pickup JAM	1. Open the upper cover, remove the notes. 2. Press auto clear button.
32	Path JAM	1. Open the upper cover and lower part, remove the notes. 2. Press auto clear button.
33	Diverter Out JAM	
41	Check R Sensor Fail	1. Check and Cleaning the check sensors.
42	Check L Sensor Fail	
43	Diverter Sensor Fail	1. Check the lower cover is closing 2. Check diverter sensor.
44	Diverter Check Sensor Fail	1. Check and Cleaning the Diverter sensors.
45	Diverter End Sensor Fail	
46	Stack Sensor Fail	1. Remove the banknotes from the stacker.
47	Reject Sensor Fail	1. Remove the banknotes from the reject stacker.
48	Reject Full Sensor Fail	
50	Boot State	1. Turn the power switch off and on. 2. If the Error continues, please Contact to service Center.
51~53, 56~58	Program upgrade error	1. Program upgrade retry. 2. If the Error continues, please Contact to service Center.
61~62	Hardware problems	1. Turn the power switch off and on. 2. If the Error continues, please Contact to service Center.
65~66	Calibration Error	1. Calibration retry. 2. If the Error continues, please Contact to service Center.

Supplement

Product Specifications

Mode	Count, Value, Single, Mixed, Face/Orient, Fitness Sort, Serial Number Recognition			
Pocket number	2 Pockets			
Outside Dimensions	273(W) x 275(D) x 293(H) mm			
Weight	8.6kg			
Counting Speed	Value Counting, Fitness Sorting (EE7-FS)		1000 Note/min	
	Serial Number Recognition		800 Note/min	
Size of countable notes	W:50~90mm, L:100~185mm			
Hoper Capacity	500 (1000 optional)			
Stacker Capacity	200			
Reject Stacker Capacity	Approximately 100			
Display	5” TFT Color Touch Screen LCD			
Sensor	CIS - 2EA			
	MR, IR, UV			
	Mechanical Thickness Sensor(EE7-FS) or Sonar(EE7-VS)			
Power supply specification	Voltage		100~240V	
	Frequency		50/60Hz	
	Power consumption		140W	
Usage Environment	Temperature		0℃~45℃(32F~113F)	
	Humidity		10%~90%(no condensation)	
	Do not expose the product to the direct rays of the sun for a long period.			
	Do not place the product in a dusty space and unstable place.			
Model		Value Count	Tape Detect	Serial Number Recognition
	EE7 VS	●	X	●
	EE7 FS	●	●	●
Interface	3 Serial Ports, 1 USB2.0 (device), 1 USB2.0X1(Host), LAN port			

List of Attachments

Standard Attachments

Power Cord

User Guide

Optional Attachments

External display

External display cable