

# Magner 175V/175FF User Guide

Currency Fitness Sorter, Authenticator, in a 2 Pocket design



Satisfied with our counterfeit detector?

Here comes a machine with a complete solution using the most advanced state-of-the-art technology.

Introducing, the new Magner-175V/175FF.

This Machine is designed to make your banknotes safe and your duties easier than ever before.

Rev. 1.0.6

Date: 2014. 12. 31

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## Introduction

Thank you for purchasing MAGNER175V/175FF.

MAGNER175V/175FF is smart, practical multi-currencies fitness sorter.

MAGNER175V/175FF sorts holes, tears, dog-ears, tape, soil, stains, folded and de-inked banknotes with high speed.

The machine is designed for user's convenience, optimized for high performance and easy maintenance.

MAGNER175V/175FF has high connectivity interfaces and 7" full color graphic LCD display.

## For Safety Use

In this section, the compliance matters are described in order to use the product safely, and to prevent you and other people from the damages brought by the product to the human bodies or properties.

Please read this instruction manual thoroughly in advance to use in the correct way.



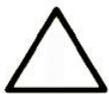
**Warning**

It denotes the contents in which mishandling of the product by neglecting this indication may cause the people's serious injury.



**Caution**

It denotes the contents in which mishandling of the product by neglecting this indication may cause the people's light injury or only physical damage.



This symbol indicates that the precautions for handling the product. Please read the indications well and utilize the product safely.



This symbol indicates prohibited matters not to do. Please read the indications well and never do the prohibited matters.



This symbol denotes that there are indication matters which should be done without fail. Please read the indicated matters thoroughly and perform the matters without fail.





## Warning

## Installation



1. At installation and relocation of the products, please contact our distributor near you or our designated dealers. If installation is not perfect, there is a risk of a falling accident, electric shock, fire and burn injury.
2. At installation and use of the products, keep the space sufficient for opening and closing the door, cover and operation. If a part of the product touches a human body, it may cause an accident.
3. In case of installing the product at the following places, you should confirm the Road Law, Road Traffic Law and Fire Protection Law, etc. If compliance conditions are not clear, please consult with the authorities concerned.
  - The place which may disturb traffic or accident prevention.
  - The place adjacent to the fire extinguishing and detecting apparatus.
  - The place adjacent to the road signs or traffic signals.
  - The place where combustible materials or gas are treated (gas stations, etc.)Passages and facilities for evacuation Illegal installation may cause an accident.
4. Keep an installation space as described in the instruction manual, and do not choke up the ventilation inlet. If the ventilation inlet is choked, heat is accumulated inside and it may cause fire.
5. Depending on the installation place, mounting of an earth leakage breaker is required by Electricity Enterprises Law. Illegal installation may cause an accident.



1. Do not install the product at the place where water may spill on it. If water enters into the product, insulation performance degrades and it may cause fire and/or electric shock.
2. Do not install the product at the place where the floor cannot bear the load of the product, or at the unstable place with inclination and/or irregularity. It may cause the accidents of floor caving and sudden move of the product.
3. Installation at the following places should be avoided.

There are safety problems and deterioration of the product may be accelerated, which leads to a cause of failure.

  - 1m or less from volatile combustible materials or curtains.
  - 1m or less from heating apparatus such as stoves, heaters etc.
  - The place with direct winds blown from air conditioners, ventilating openings etc.

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- The place with high temperature, high humidity, or low temperature.
- The place with direct sunlight.
- The place with much dust.

When installing the product at the following places, please contact our distributor near you or our designated dealers.

- The place exposed to salty winds or corrosive gas.
- The place with much swinging or vibration.



Grounding work should be made for safety and prevention of static electricity and noise failure. In addition, a ground wire should be installed independently without sharing the wire with other products. At grounding work, please be sure to contact our distributor near you or our designated dealers. In case of electrical leakage when grounding is insufficient or not connected, it may cause fire and/or electric shock.

The place where a ground wire can be fitted:

- Ground terminals for power receptacle.
- The copper piece etc. with a length of 65 cm or more, buried in the ground.
- The ground terminals on which grounding work is made.

The place where is a ground wire must not be fitted.

- Gas pipes
- Telephone wires for exclusive use
- Lightning rods
- Water pipes or faucets with plastic materials at their intermediate part.



Do not use or put the combustible materials such as thinner, combustible gas, or a high-volatile object around/inside the product. Otherwise, it may cause explosion and/or fire due to heating from the product or flashing from power supply..



**Warning**

## Power Supply



1. When using the product, connect it to the power supply specified in the instruction manual. If it is connected to the power supply, other than the product's specification, it may become a cause of fire, electric shock, and/or electrical leakage.
2. Do not use a power supply cord and the plug other than the attached ones. If a current that exceeds the rating flows in the power supply cord, it may cause fire.
3. Be sure to insert the blade part of the power supply plug into an outlet. Insufficient insertion may cause fire.



1. When the earth leakage breaker frequently operates, please contact our distributor near you or our designated dealers. If the product is used or left as it is, it may cause fire and/or electric shock.
2. Do not modify, process, or repair the power supply cord and the plug. In addition, do not convert a 3-prong power supply plug into a two-pole type. Grounding becomes insufficient and there may cause electric shock.



Please follow the items below to prevent electric shock and/or fire due to damage of the power supply cord.

- Do not pull the cord part when pulling out the power supply plug.
- Do not put anything on the cord part.
- Do not pass the cord near a source of heat.
- Do not bend or pinch the cord.
- Do not tread or twist the cord.
- Do not spill chemicals on the cord.
- Do not use it while it is bundled.
- Do not fix it with a stapler etc.



1. Do not use the power supply cord and the plug for other products or purposes. Further, when they are lost or damaged, please purchase them at our distributor near you or our designated dealers. The attached power supply cord and the plug are designed and confirmed the safety for connecting to this product to use. If they are used for other products or purposes, it may cause fire and/or electric shock.
2. The product should be used at the specified frequency. If it is used at other than the specified frequency, it may cause an accident.



**Caution**

## Handling



1. The product should be used under the environment specified in the instruction manual. If it is used under the other environment of the specification, there may cause fire and electric shock.
2. When operating inside the product for error or clearing or cleaning etc., the operation should be made in accordance with the description in the instruction manual. Operation other than the description may cause an accident.



1. Do not turn off the power, pull out the power supply plug, or open the cover of the product during the operation. Otherwise, it may cause an accident.
2. Do not put a vase or glass with an object and/or water etc. on the product. Otherwise, it may cause fire, electric shock, and/or injury by spilling water or dropping.
3. Do not apply shock on the product. There is a risk of damaging the product and normal operation cannot be performed.
4. Do not use chemicals such as thinner or benzene when removing dirt of the product. Otherwise, it may cause damages.
5. Do not use a interface cable other than the attached one. When cables are other than the attachment, it may cause the interface error or machine trouble.



Do not use a combustible spray etc. around product. If spray gas etc. contacts the electrical parts inside the product, it may cause explosion and fire.



1. When touching inside the product for cleaning or parts replacement etc., be sure to turn off the power. If you work with turning the power on, it may cause electric shock and/or injury.
2. Do not touch the product and power supply plug and cord with a wet hand. There is a risk of electric shock.
3. The electrical parts inside the product should not get wet by rain or water at cleaning etc. if they get wet, it may cause electric shock and/or shock.
4. Do not turn of air heating suddenly when the product is completely cold. Moisture may adhere inside the product due to sudden air heating and it may cause electric shock.

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5. There is a charging part inside. Be sure to open the cover with turning off the power. If the cover is opened without turning off the power, it may cause electric shock.



1. Do not drop any metallic piece such as a clip, staple etc. inside or in a clearance of the product. If a metallic piece drops inside the product and contacts the electric circuit, it may cause fire.

2. When the product is not use for a long time, be sure to pull out the power supply plug from an outlet for safety. Otherwise, it may cause heating and/or firing due to dust accumulation.



Do not modify the product or mount modified parts on the product. Further, do not dismount the portion which is not indicated to be opened/closed in the manual, or the cover and parts etc. fixed with screws etc. Otherwise, it may cause fire, electric shock, and/or injury.



1. Do not approach your hand or cloths during operation to moving parts of the product reachable. There may cause injury and/or pinching of a finger.

2. When closing a door, pay attention not to pinch a finger. It may cause of injury.

3. When working with a door opened, confirm it is locked. It may become a cause of injury because the door may suddenly close.



Do not touch the gear etc. It may cause injury.



**Warning**

## Maintenance



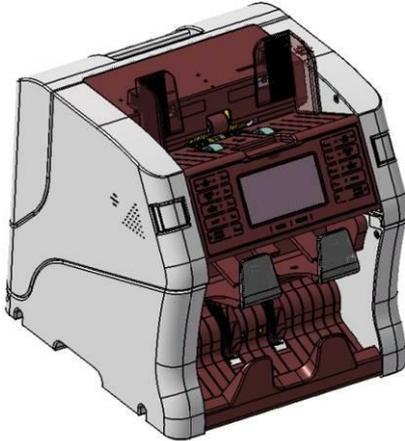
1. For repairing the product, please contact our distributor near you or our designated dealers. Insufficient repair may cause fire, electric shock, and/or injury.
2. When the product has sunk under the water due to a disaster etc., stop using it and please ask for repair/check to our distributor near you or our designated dealers. If used as it is, it may cause fire and/or electric shock.
3. Check periodically whether its installation place is unstable or not. If there is any abnormality, please contact our distributor near you or our designated dealers. If it is continuously used with insufficient installation, it may cause a falling accident.
4. Check and clean the power supply plug and the cord regularly. If the power supply plug is broken or the cord is damaged, stop using and please replace it by contacting our distributor near you or our designated dealers. It may cause fire and/or electric shock.



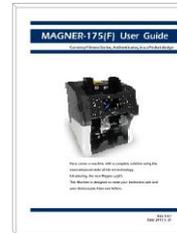
When smoke, abnormal smell, or abnormal sound is generated from the product, stop using it immediately, cut off power supply and pull out the plug from the outlet. Then, please contact our distributor near you or our designated dealers. If used or left as it is, it may cause fire and/or electric shock.

## ***Packing List***

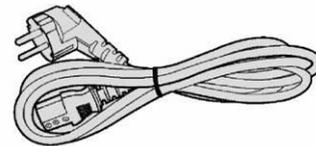
**Magner175V/175FF**



**Manual**



**Power Cable**



## ***Options***

**External Display**

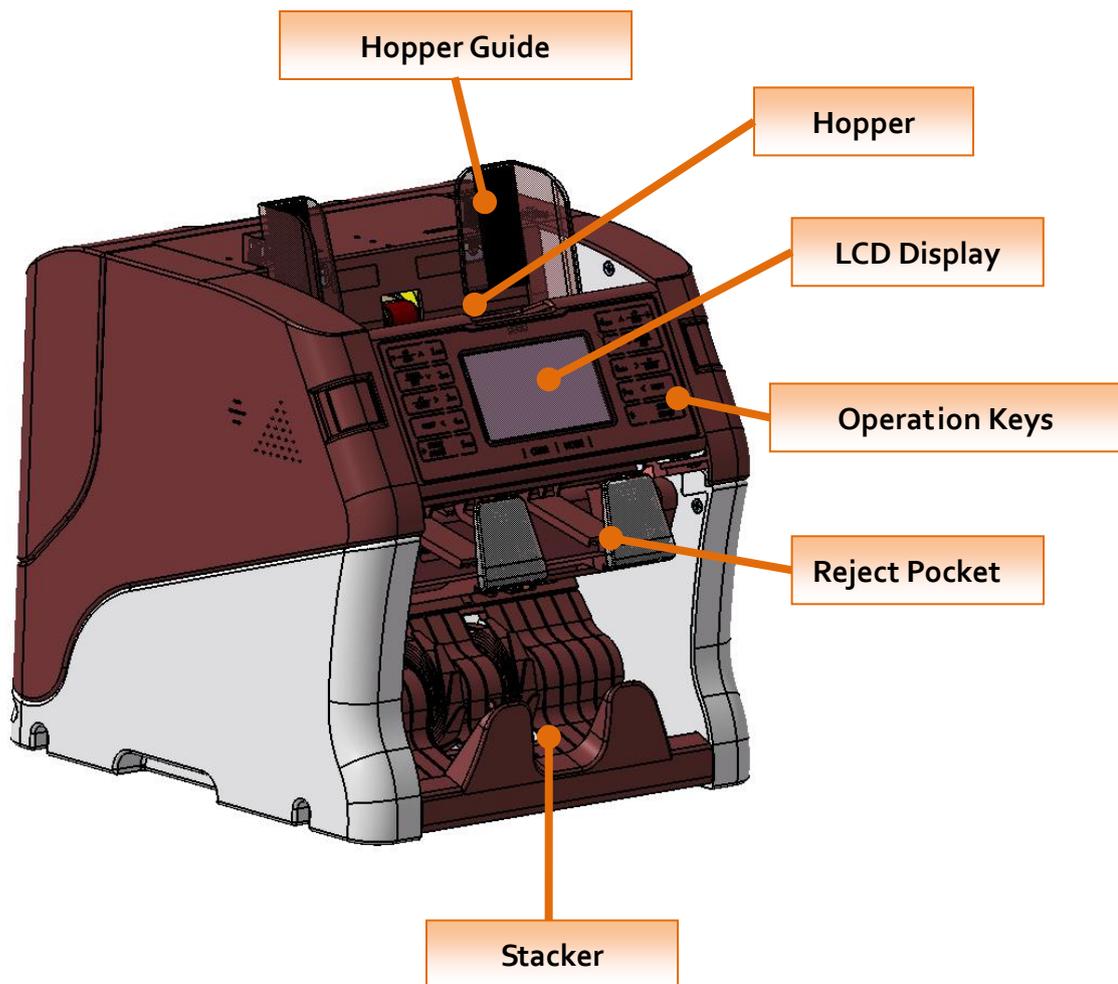


**OSD Kit**

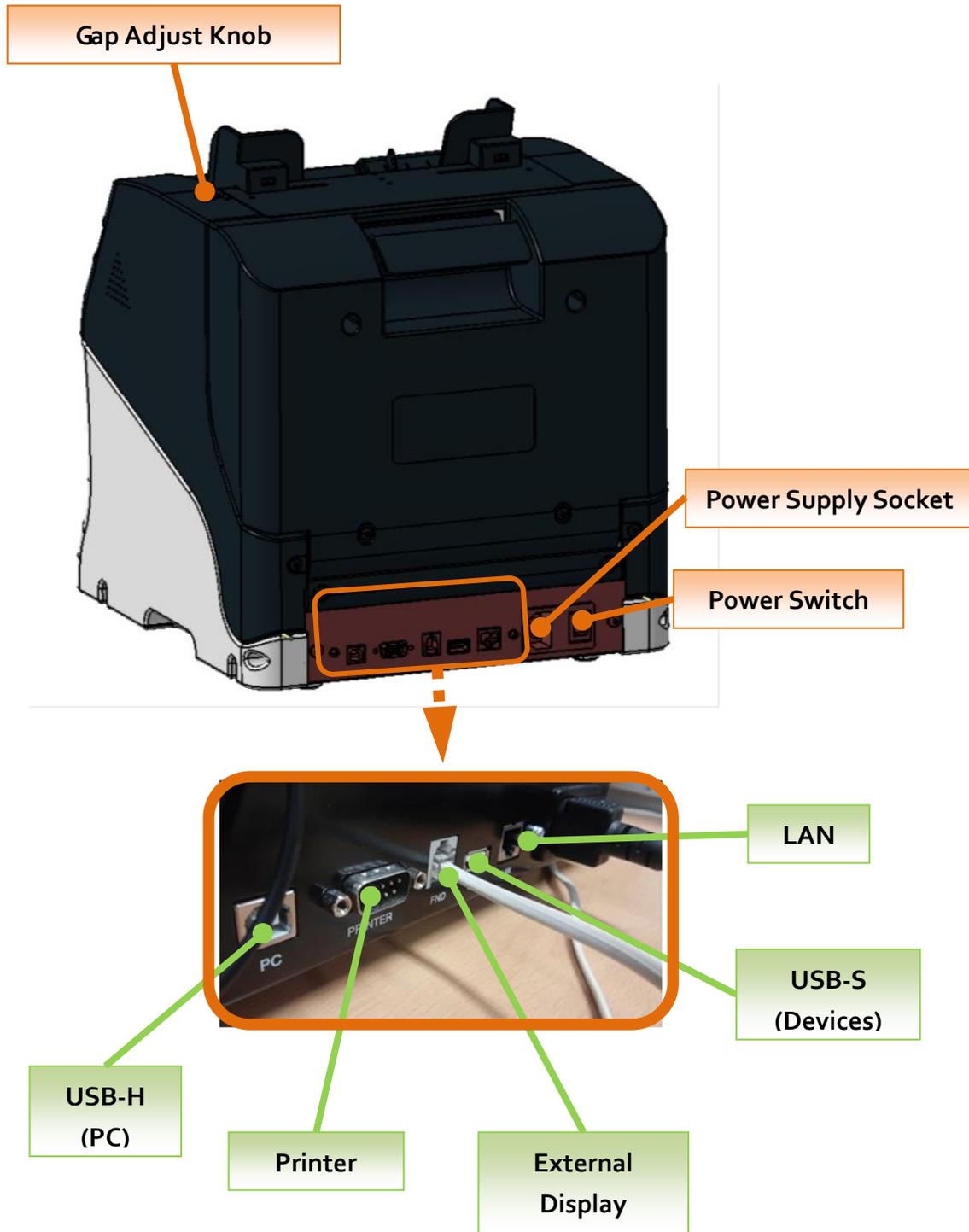


## *Appearance*

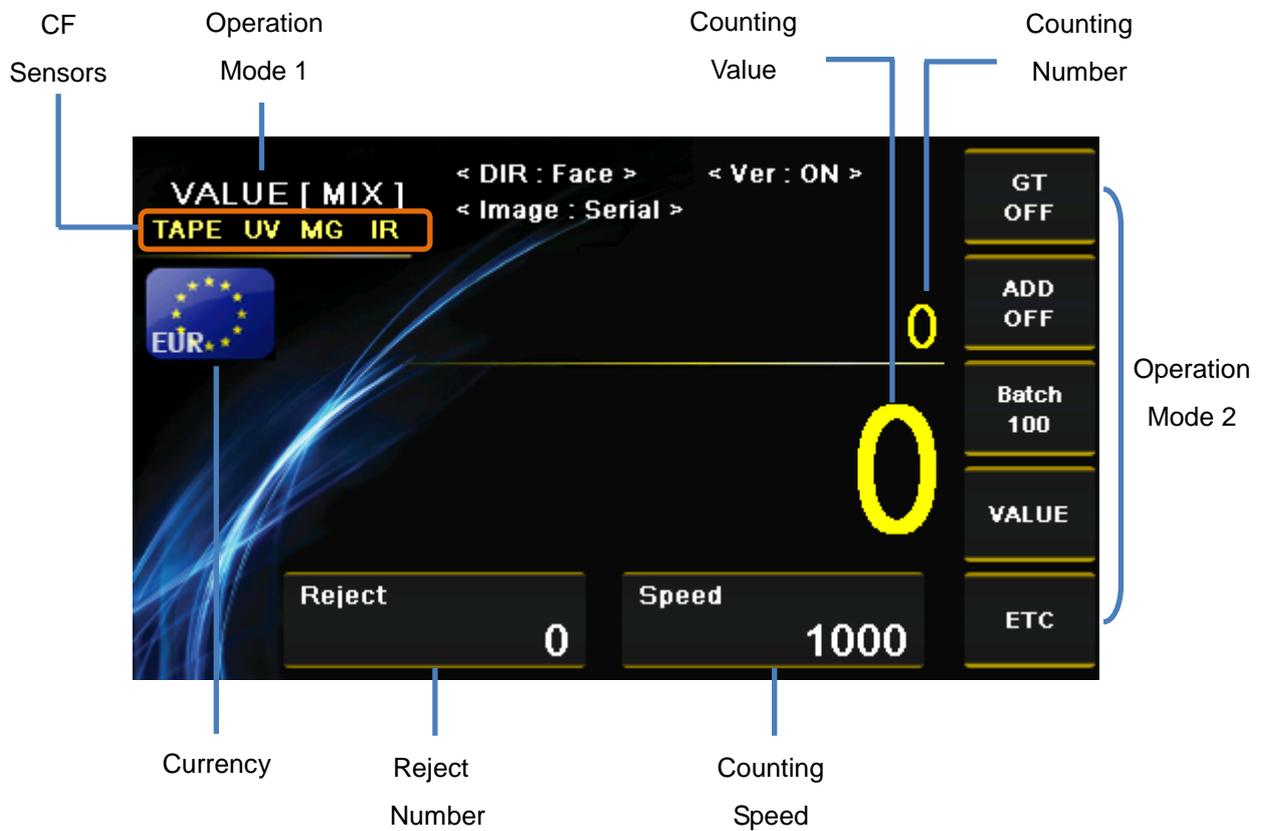
<Front View>



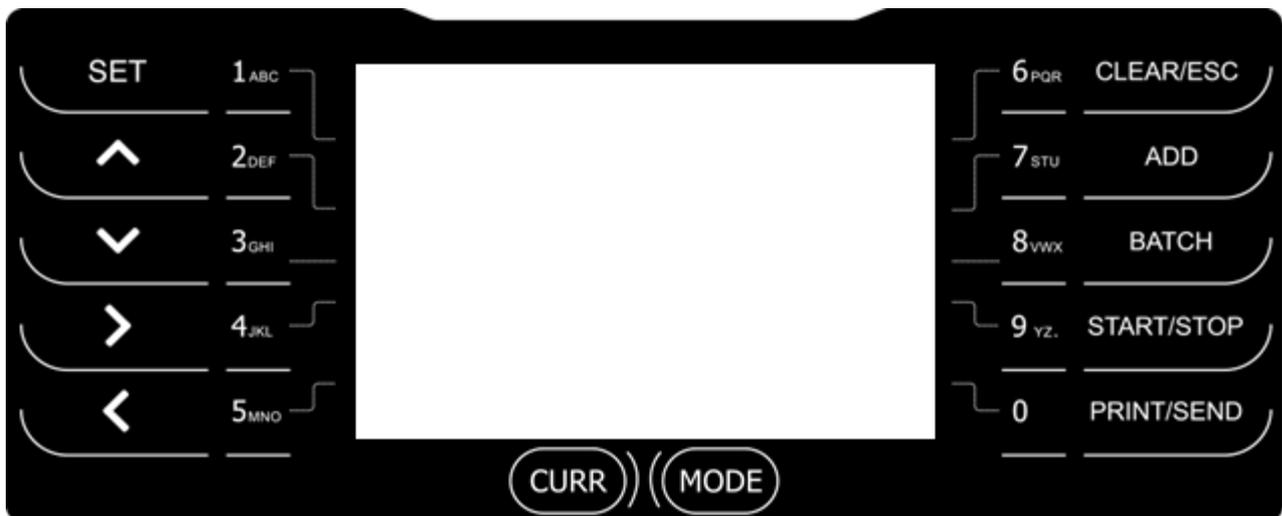
## <Rear View>



# 1. Screen Description



## 1) Key Operation



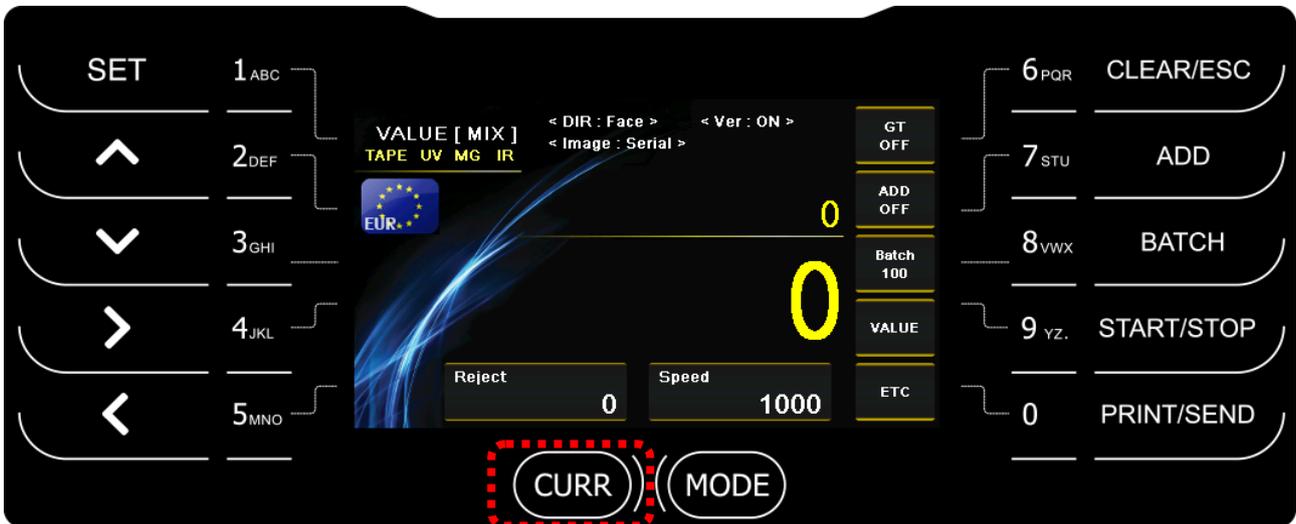
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<b>CURR</b>	Short Key	Select Currency
<b>MODE</b>	Short Key	Select Operation Mode.
<b>SET</b>	Short Key	Enter fitness setup menu. Save the number.
	Long Key	Enter Pincode menu.
<b>CLEAR/ESC</b>	Long Key	Delete characters
<b>ADD</b>	Short Key	Turn on or off ADD
<b>BATCH</b>	Short Key	Select BATCH number.
<b>START/STOP</b>	Short Key	Start or stop the counting and exit the menu.
	Long Key	Enter Setting Mode.
<b>PRINT/SEND</b>	Short Key	Print the counting result to Display or Printer.
	Long Key	Print the counting result via Printer.
↑↓	Short Key	Change counting Speed.
↑↓	Long Key	Page at Setting Mode.
→ ←	Short Key	Change value and move curser or page at Setting Mode.
<b>1~0</b>	Short Key	Enter the relevant menu.

## 2. Basic Operation

### 2-1. Currency - Change local currency.

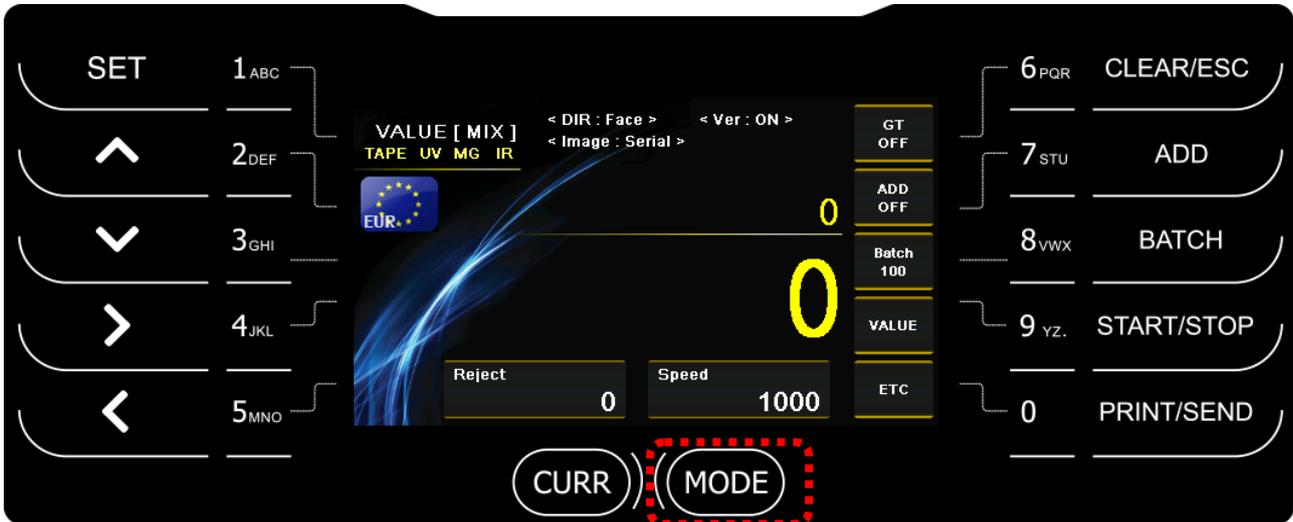


When long press "CURRENCY", the installed currencies are shown together and you can select the currency directly with number key.



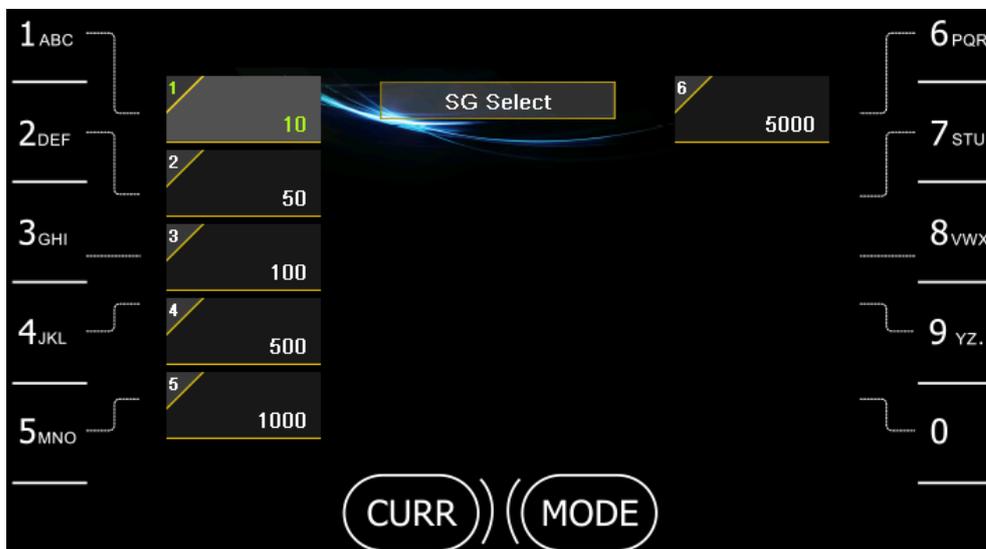
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## 2-2. Mode - Select Operation Mode, MIX, SP and SG Mode.



- **Mix** - Count all denominations of selected currencies.
- **SP** - The first inserted denomination is sent to Stacker Pocket.
- **SG** - The selected denomination is sent to Stacker Pocket.

Long press MODE key and select the denomination.



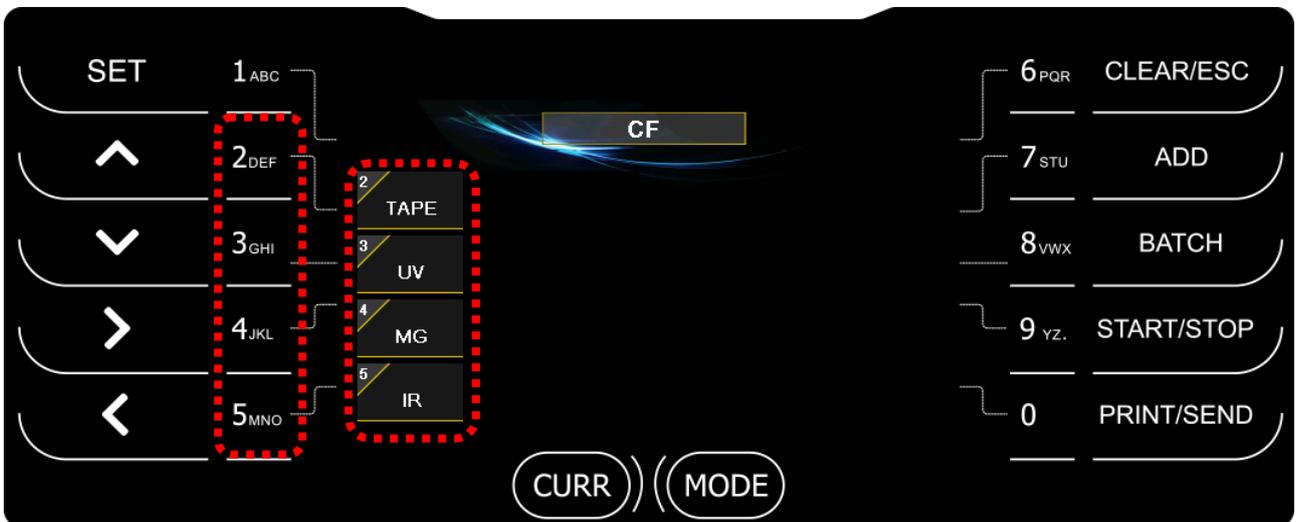
## 2-3. CF detection



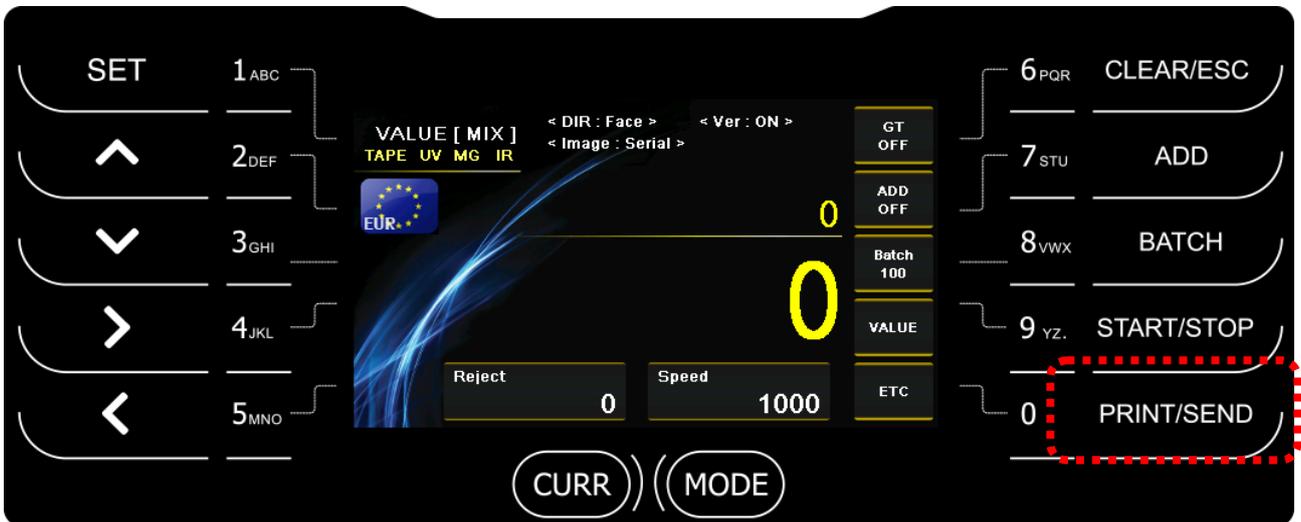
There are 4 kinds of sensors for detecting counterfeits. (TDS, UV, MG and IR)

By pressing  $\nabla$  key, user can turn on or off each sensor. (Pincode is needed.)

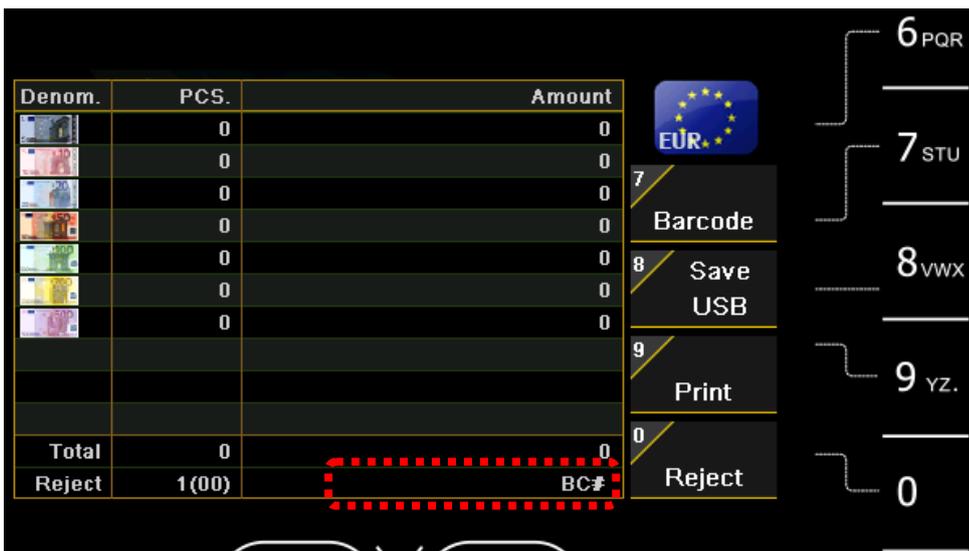
Press BATCH key -> Press 2 ~ 5 key for turning on or off the sensors.



## 2-4. How to check Counting Result



After count the notes, press PRINT/SEND key and check counting result.



- **Barcode (Russia only)**
- You can connect Barcode Reader to MAGNER175V/175FF via USB port.

Press “7” key and scan Barcode.

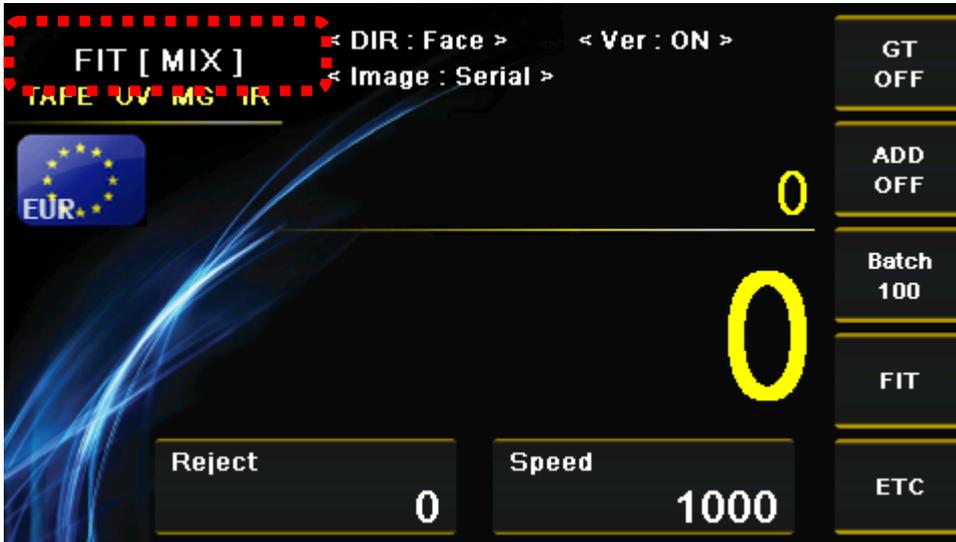
When you press “9” key, the scanned barcode is printed with counting result.

- **Save USB**

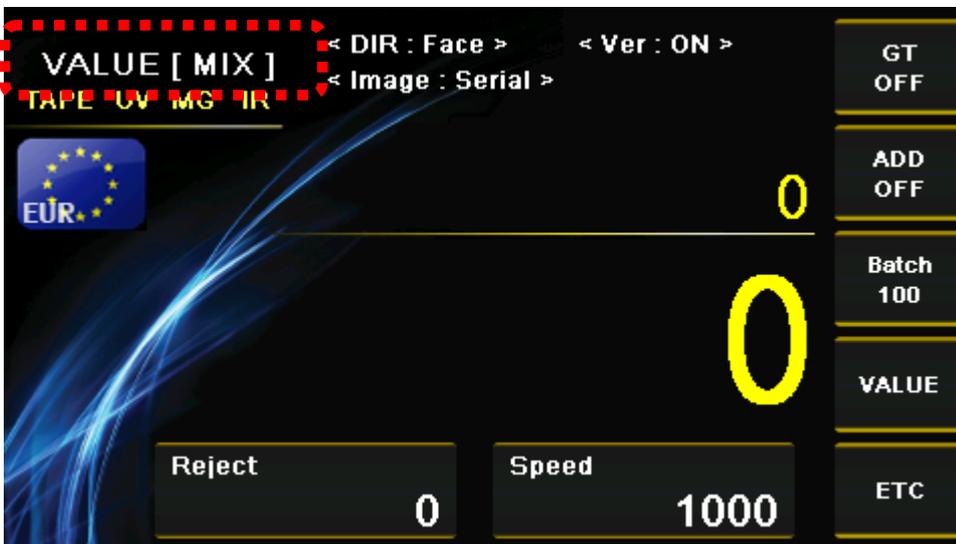
After select operation mode, if press “8” key, counting result is saved to USB stick.



## 3-2. FIT – Sort clean notes by fitness standards. (Magner175FF Only)

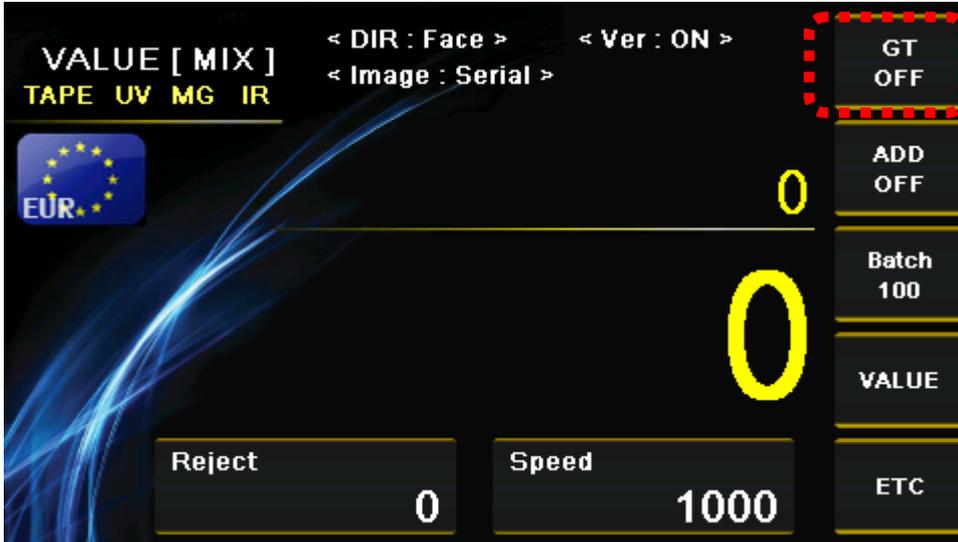


## 3-3. VALUE – Count notes normally.

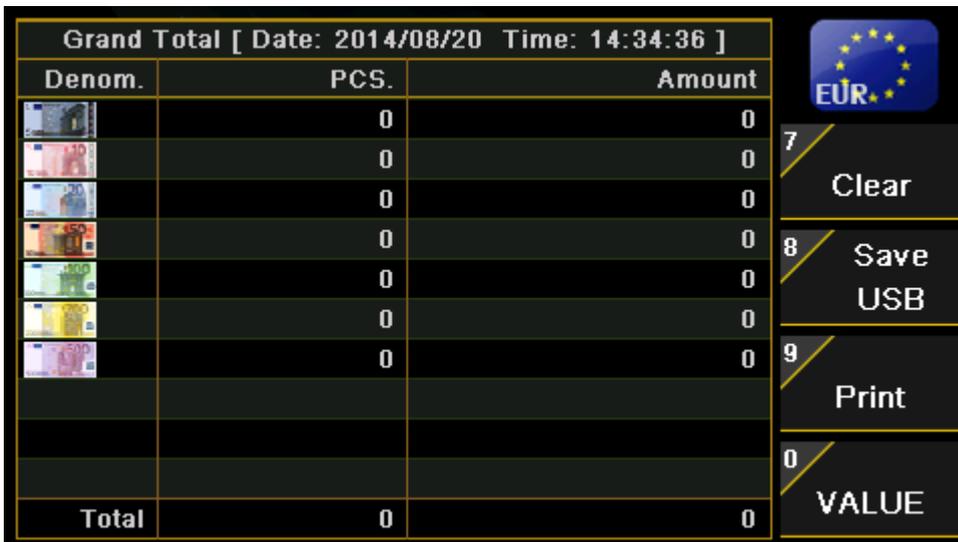


## 4. Operation Mode 2

4-1. **GT** - When GT function is on, machine settles accounts before user clears the accounts.



By long pressing “6” key, you can see the result of GT.



When you press “0” key, GT result of each operation mode is shown.

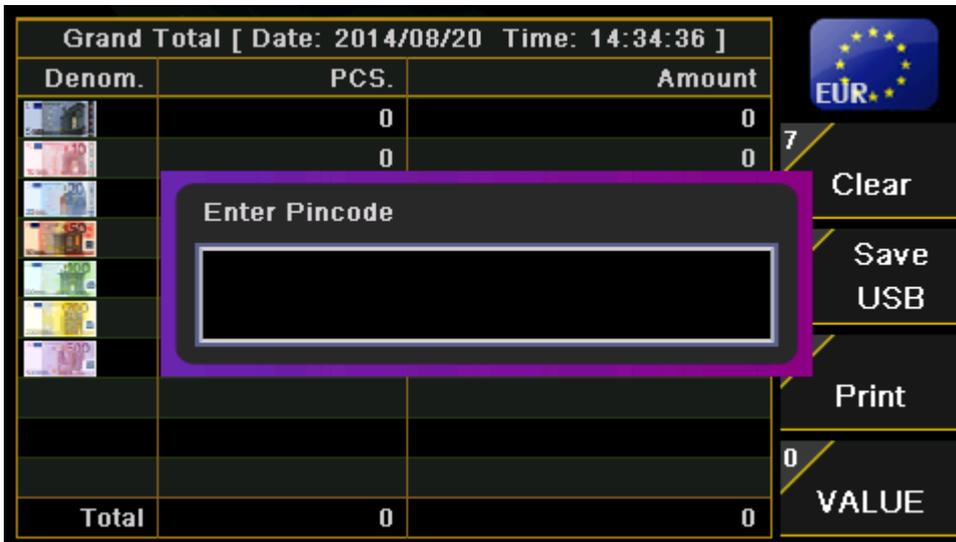
(VALUE -> ATM -> FIT -> Unfit)

After select operation mode, if press “9” key, GT result of the selected mode is printed to Printer.

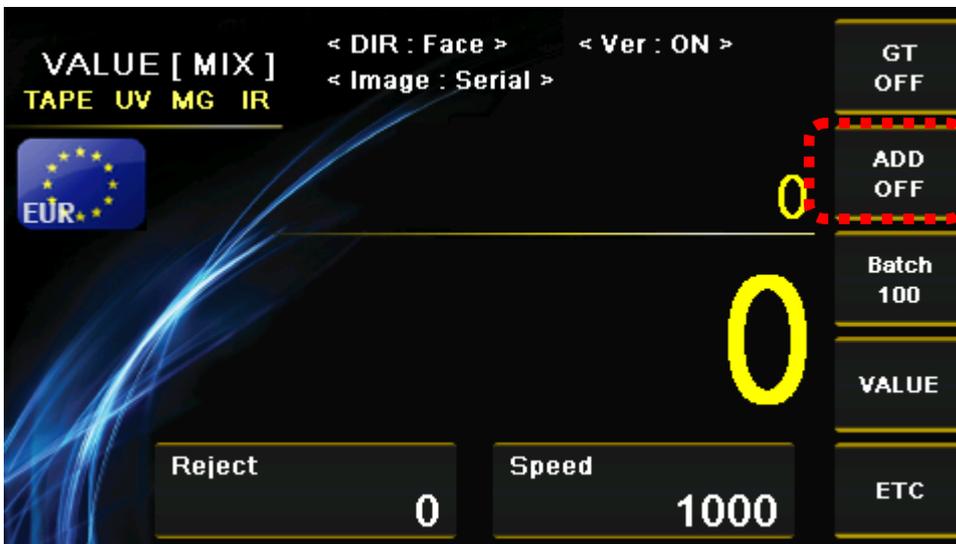
After select operation mode, if press “8” key, GT result of the selected mode is saved to USB stick.

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You can clear GT Result by pressing “7” key but Pincod is needed.



**4-2. ADD** - The total counting result is accumulated.

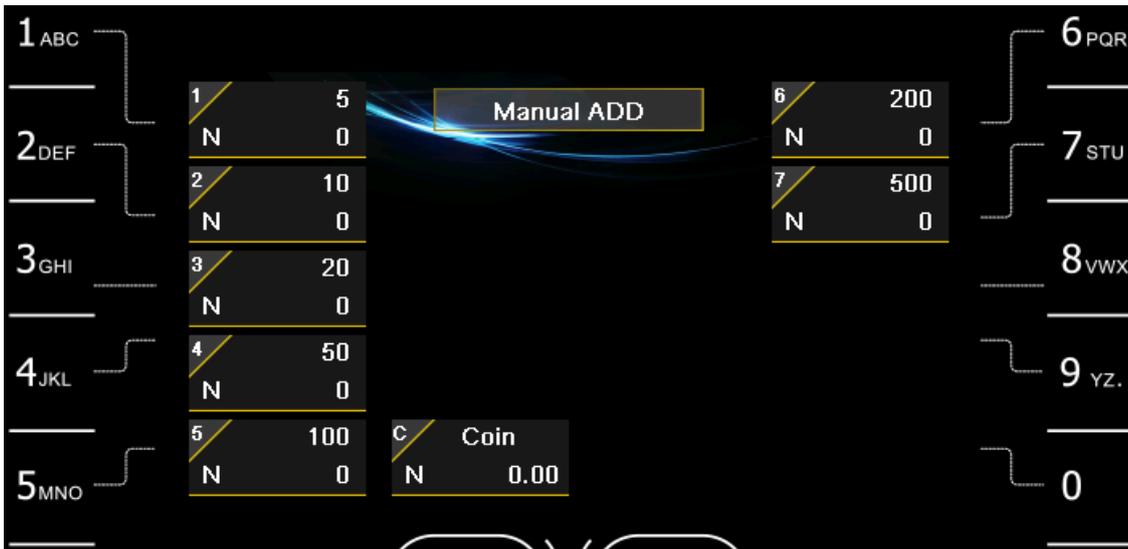


- **Manual Add**

You can enter counting result about notes and coin manually.

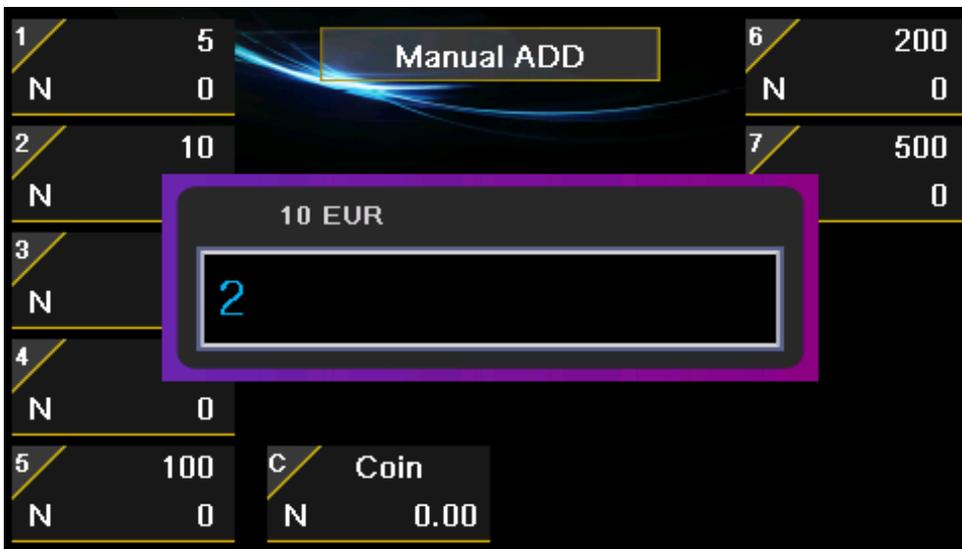
When press ADD key, Manual Add menu is shown.

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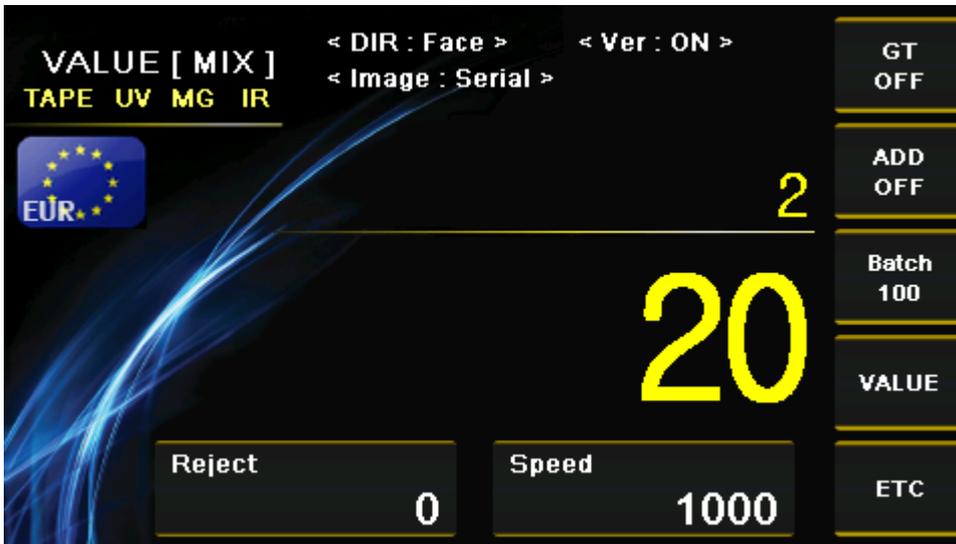
After select the denomination by pressing number keys, enter the number of notes and press “SET” key for saving.

(For example 10 EUR – 2 notes)



Press START/STOP key and exit the Manual Add menu.

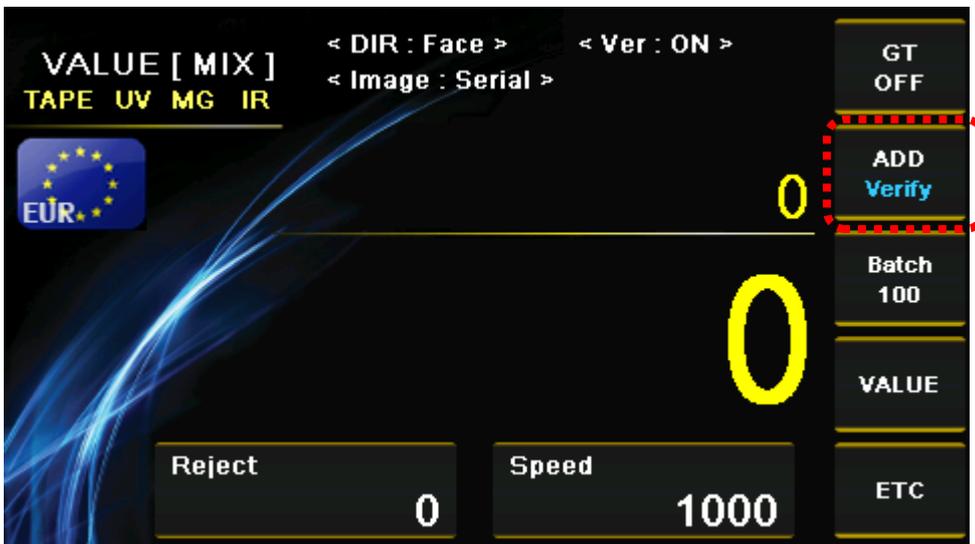
The added value is shown on Display.



## 2) Verify function

If ADD function is "ON", you can active verify function.

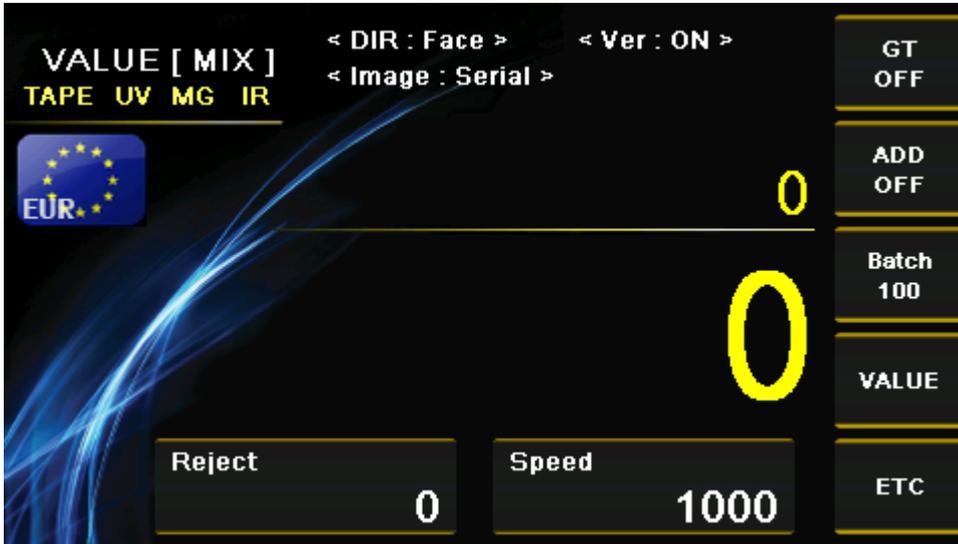
When long press "7" key, verify function is shown as below.



If you count the notes in verify function, counting result is not added in the previous counting result.

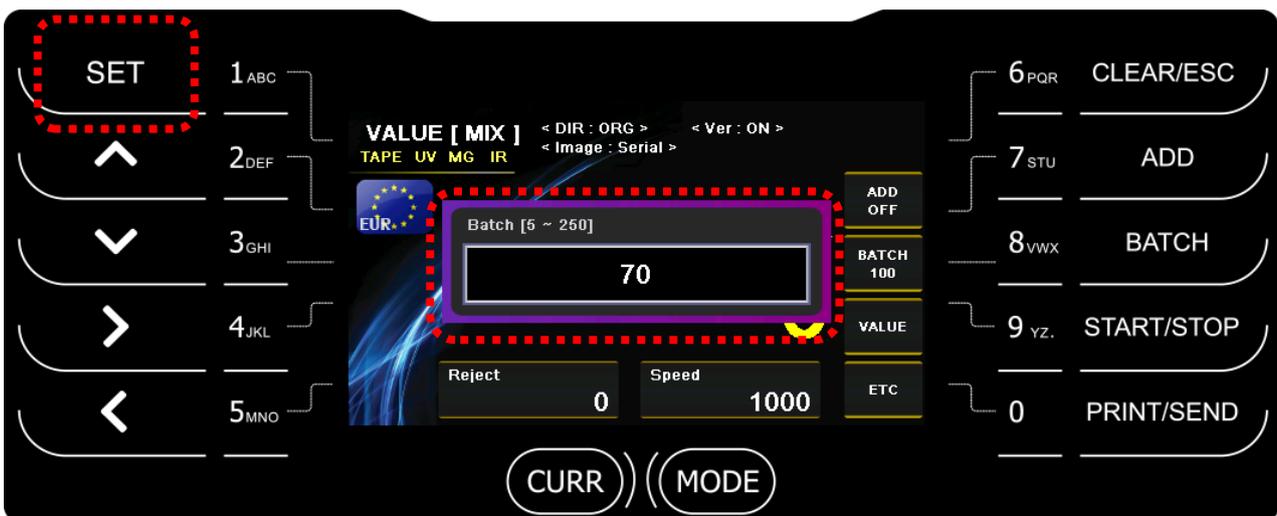
## 4-3 Batch

### 1) Batch number. (5 ~250)



When press "BATCH" key, you can enter batch number directly

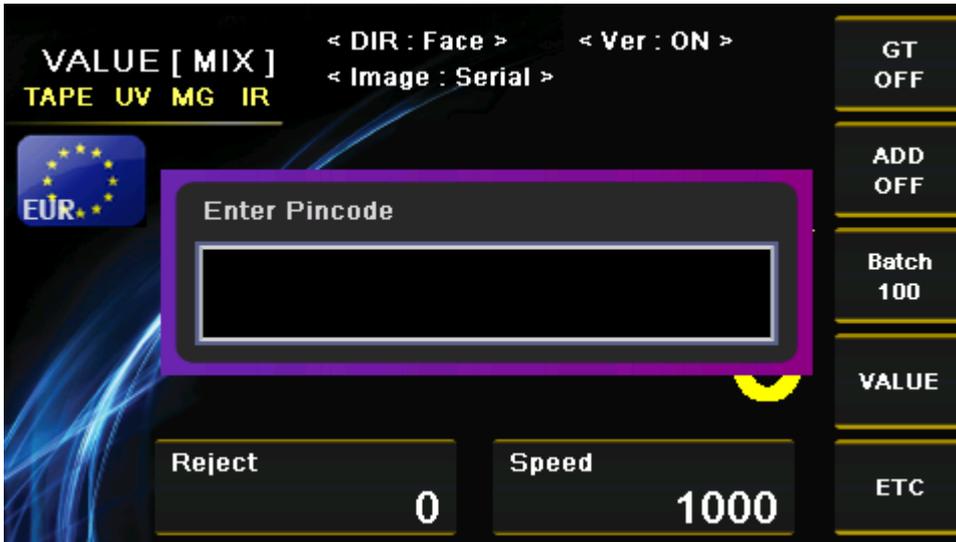
After enter batch number, you need to press SET key for saving.



## 2) Reject Batch number. (5 ~100) (Pincode is needed.)

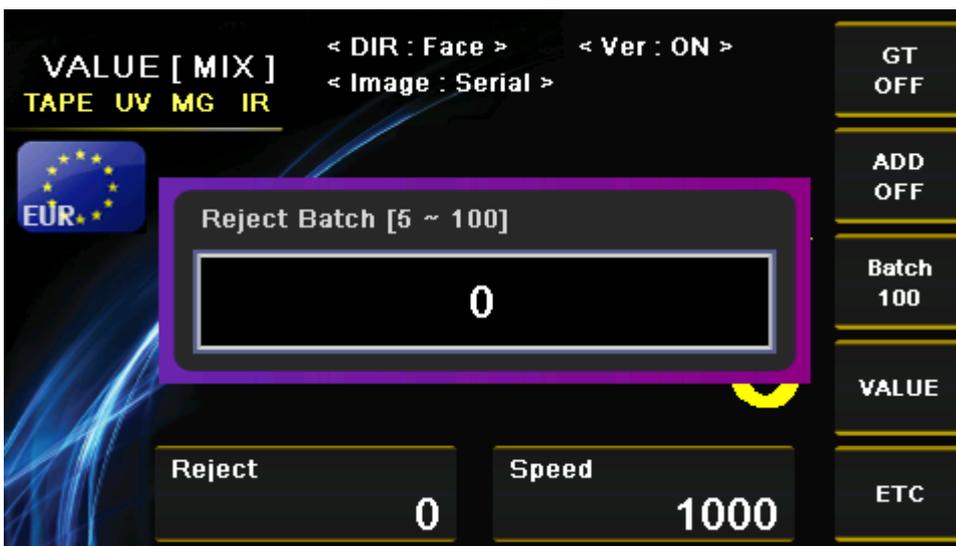
Long press "SET" key

After enter Pincode, try to press "SET" key.



When long press "BATCH" key, you can enter reject batch number directly

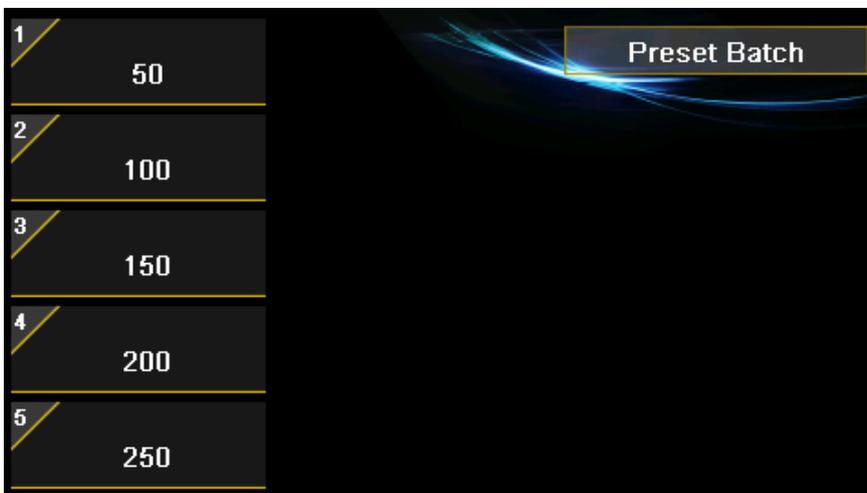
After enter batch number, you need to press SET key for saving.



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## 3) Preset Batch

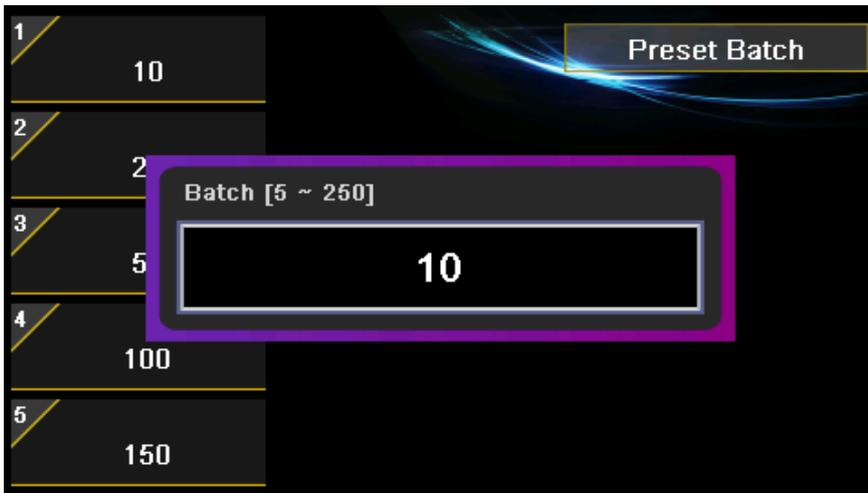
When long press “8” key, you can set batch number.



After press number key, enter batch number and you save batch by “SET” key.

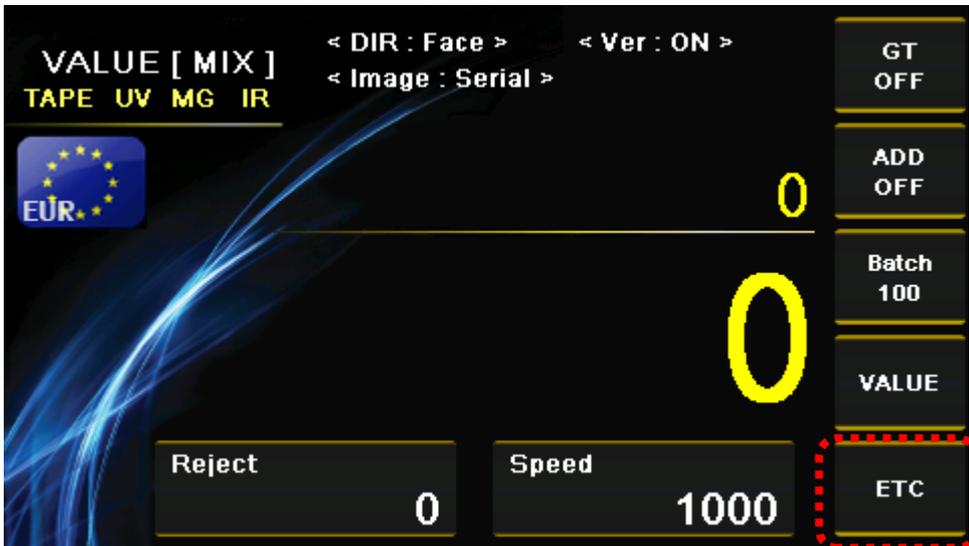
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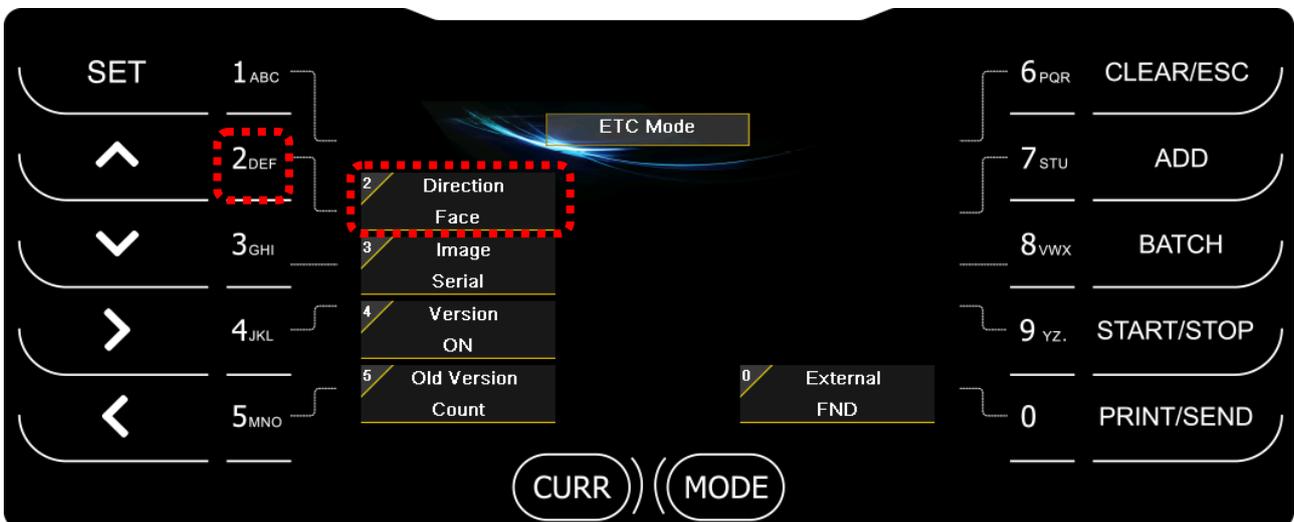
When you press "8" key, batch is changed from Preset Batch number.

**4-4. ETC** – Select Direction, Serial and Version Mode by pressing “0” key.



## 1) Direction (NONE, Face, ORG)

Press “2” key and select Direction mode.



### - Face

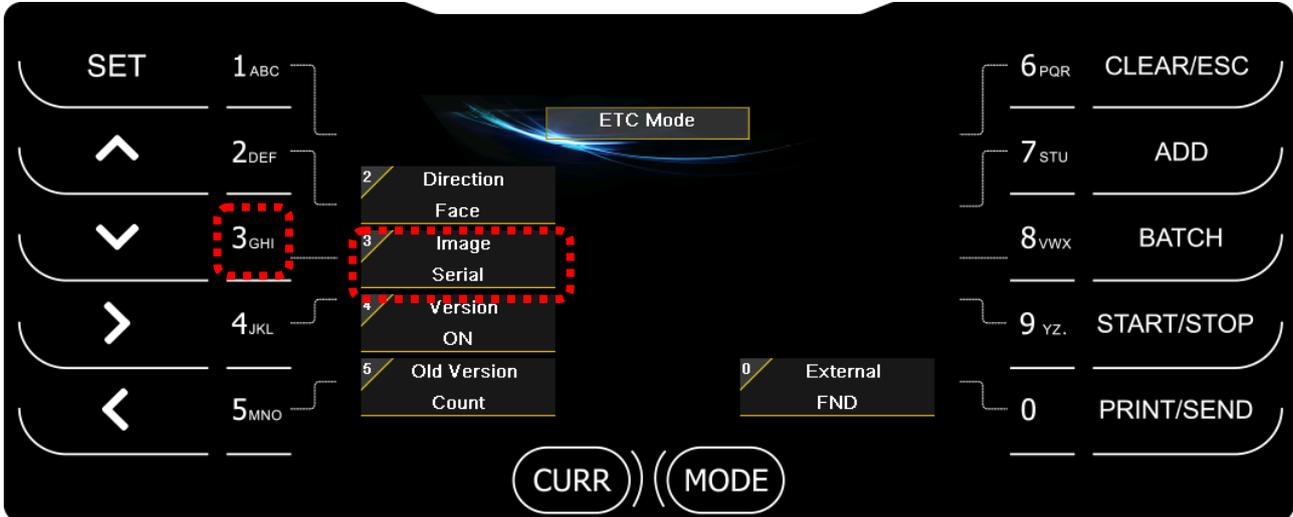
Sort the notes by face of the notes.

### - ORG

Sort the notes by face and orientation together.

## 2) Image (NONE, Serial)

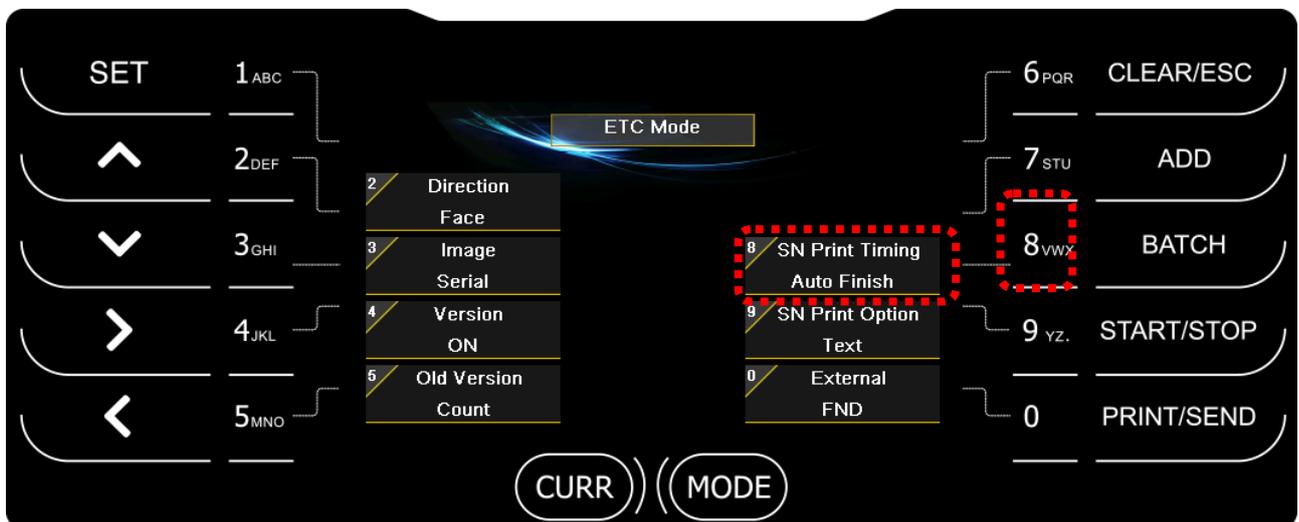
Press “3” key and select the scanned image data for transferring it to PC.



- **Serial:** Send serial image to PC.

When you select Serial function, 2 menus appear.

### 2-1) SN Print Timing



- **Auto Batch**

When Batch is full, print the counting result via Printer automatically.

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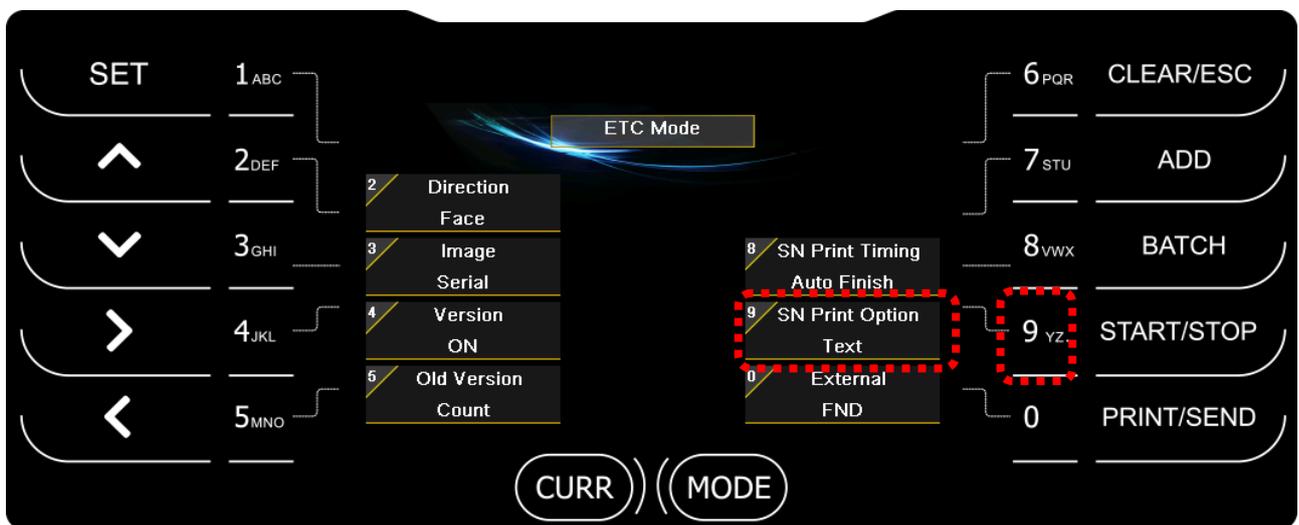
## - Auto Finish

When count is finish regardless of Batch, print counting result via Printer automatically.

## - Manual

When you press “PRINT/SEND”, you can print counting result via Printer.

## 2-2) SN Print Option



## - Text

When you print Serial number, output form of Serial number is Text.

## - Image

When you print Serial number, output form of Serial number is Image.

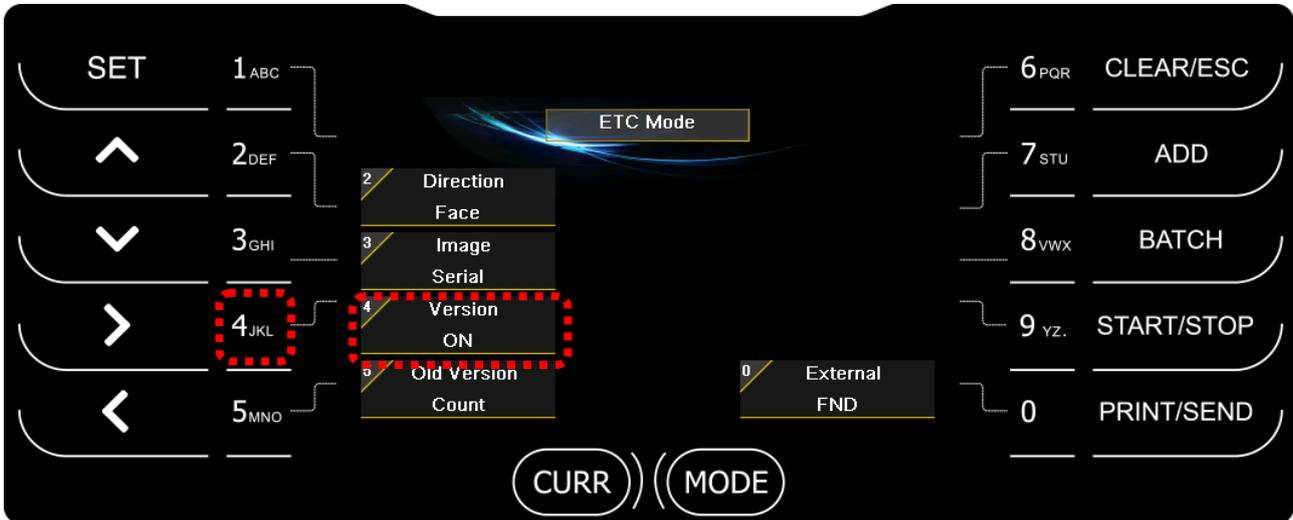
## - Both

You can print Serial number for both Text and Image form.

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## 3) Version (ON / OFF)

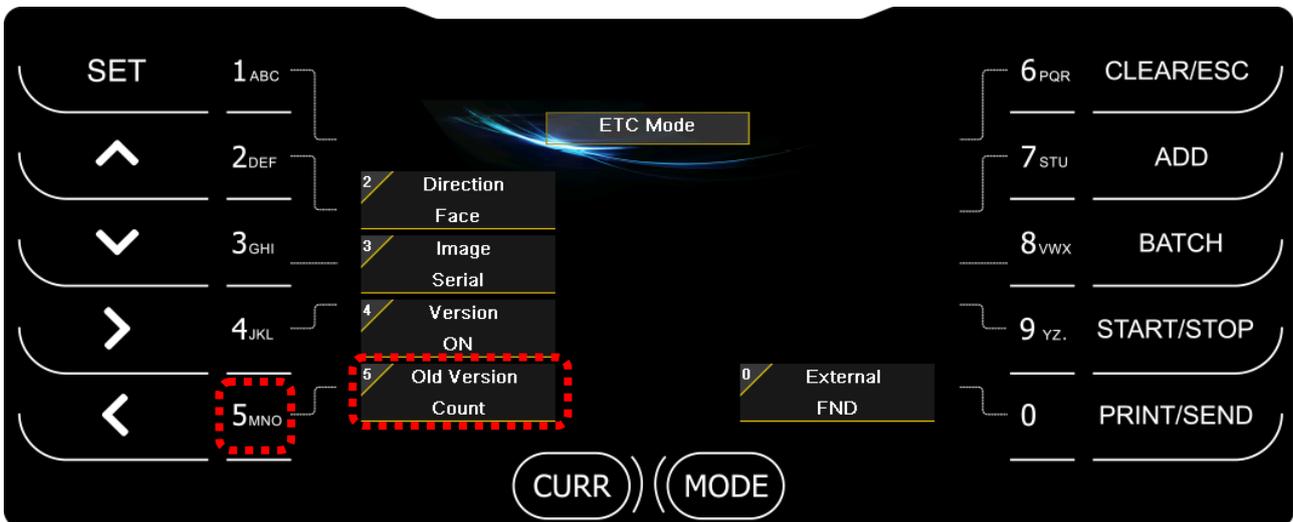
Press "4" key and turn on or off version sorting operation.



- **ON** - Sorts the notes by version. (Old, New and Very New)

## 4) Old Version

Press "5" key and turn Count or Reject old version sorting operation.



- **Count**

Old version notes are counted.

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- **Reject**

Old version notes are counted.

- **User**

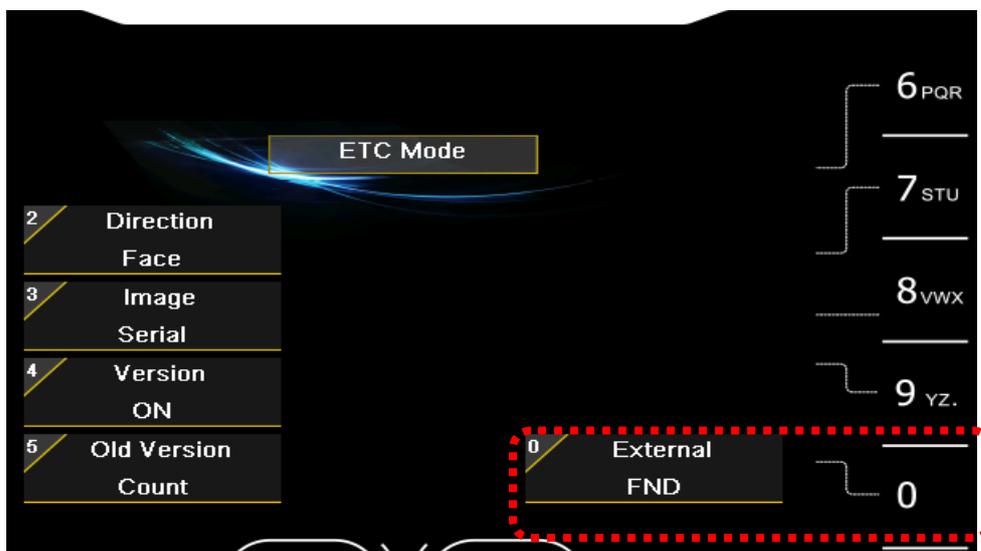
You can select Count or Reject for each denomination.

When you long press “5”key, you can select Count or Reject operation by number key.



## 5) External (Pincode is needed.)

- **FND**

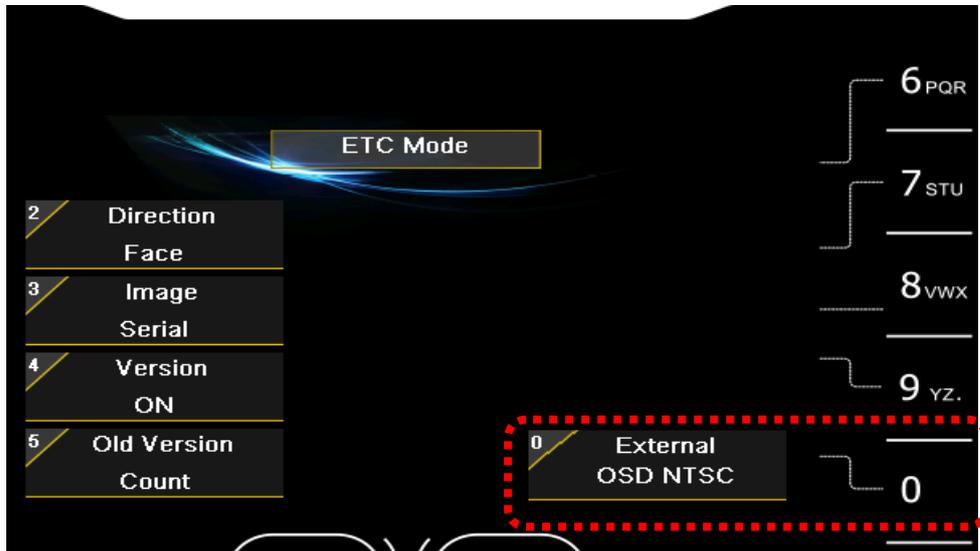


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If select “Enternal FND”, you can connect External Display to the machine.

## - OSD NTSC/PAL

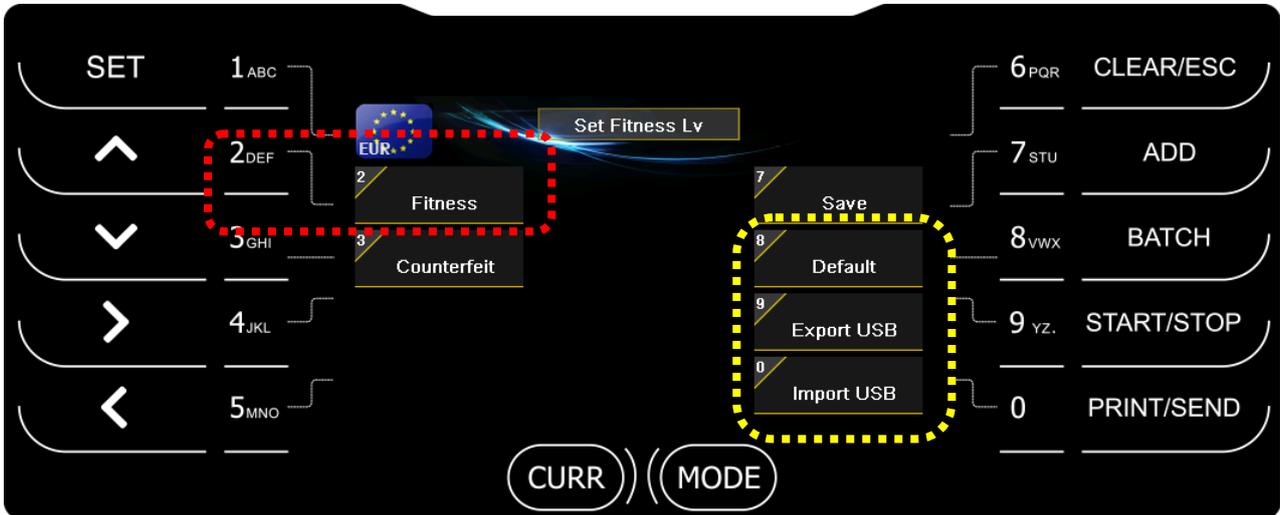


OSD is for displaying counting result to Monitor.

We support NTSC and PAL together.

## 5. Fitness Level (Magner175FF Only)

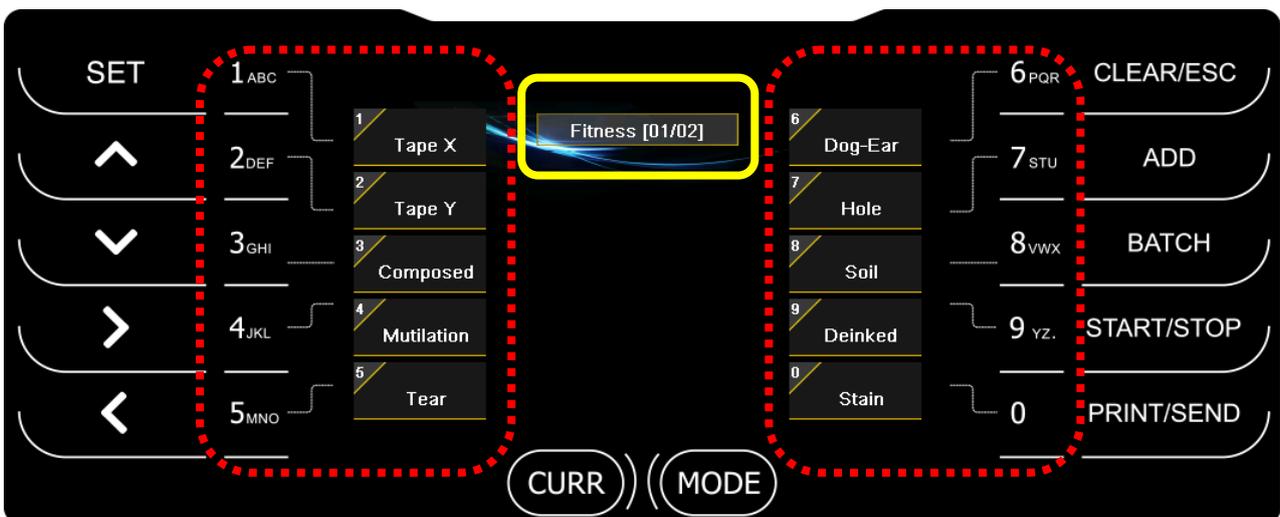
After press SET key and “2” key, you can enter Fitness Level mode.



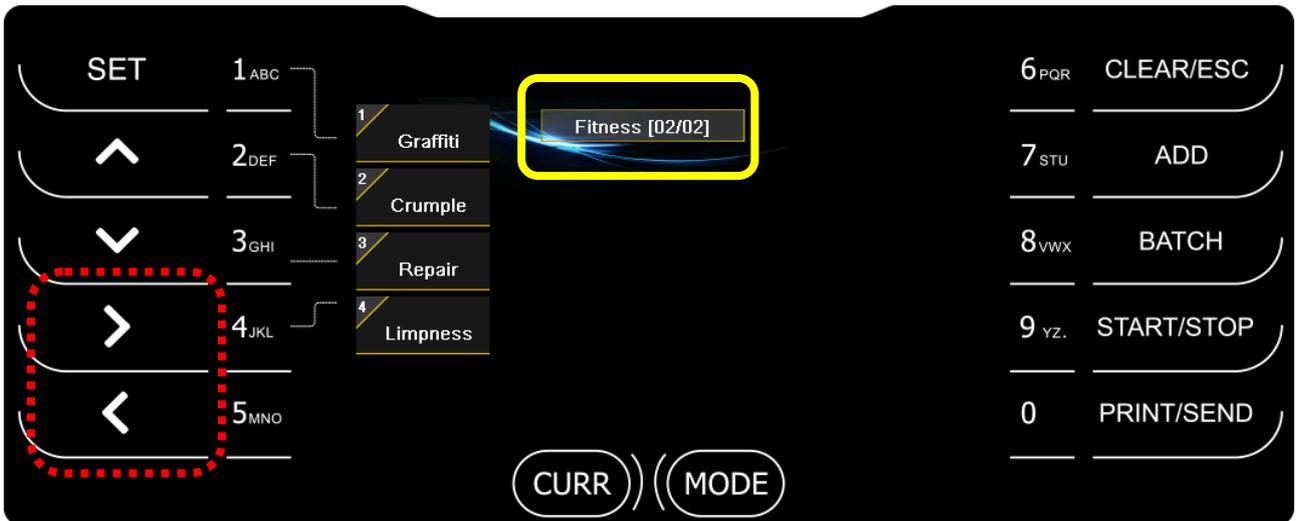
- **Default** – Load default value of Fitness and Counterfeit level.
- **Export USB** – Send the current Fitness and Counterfeit level to USB Stick.
- **Import USB** – Load Fitness and Counterfeit level from USB Stick.

After select an item first, adjust Fitness level as below.

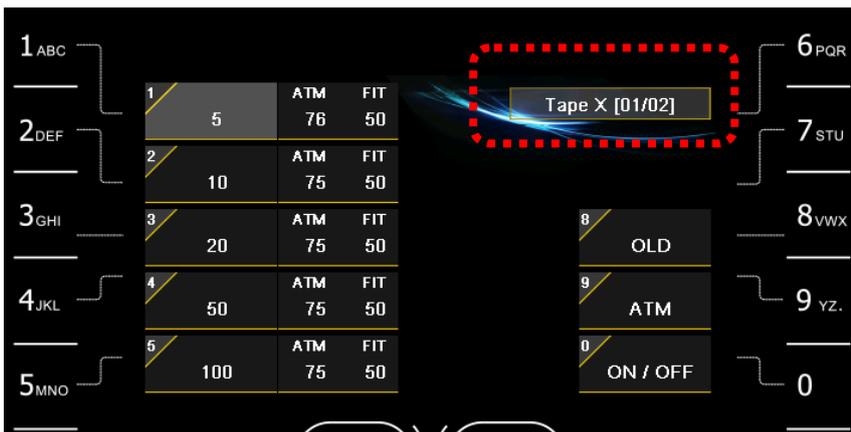
14 kinds of fitness parameter are available.



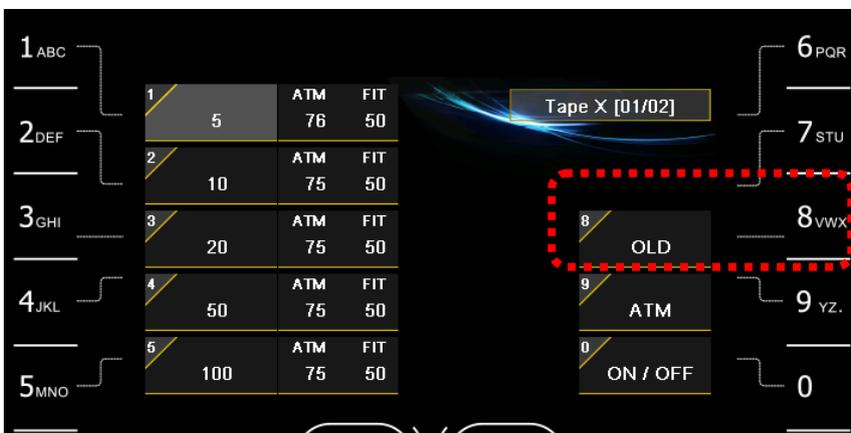
# Magner175V/175FF USER Guide



① Select Fitness parameter. (for example Tape X)

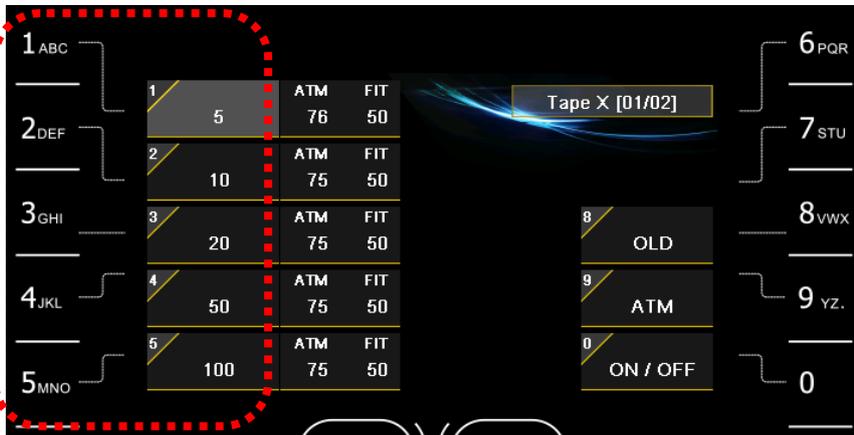


② Select Version by pressing "8" key.

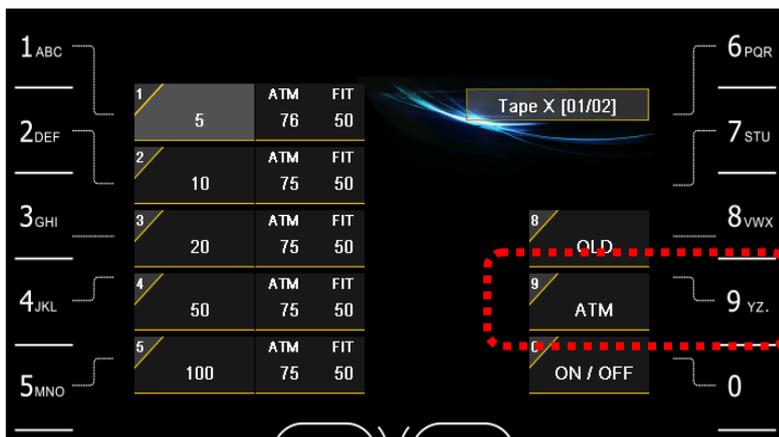


# Magner175V/175FF USER Guide

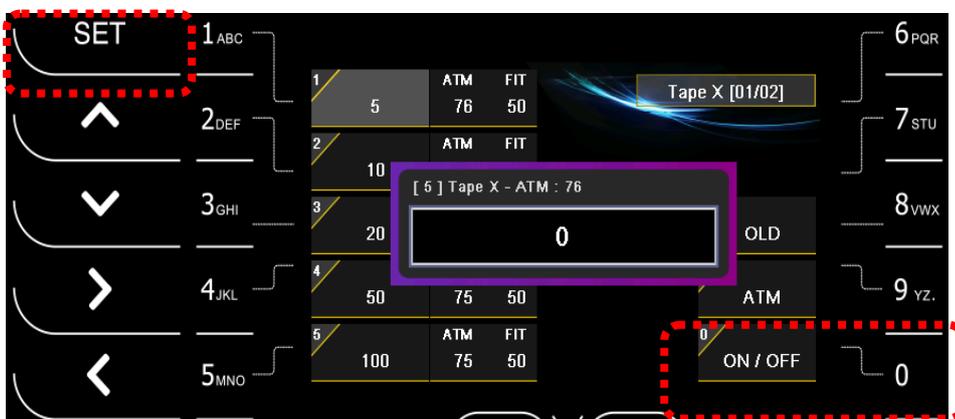
③ Select Denomination by pressing 1~5 key.



④ Select ATM/FIT by pressing "9" key.



⑤ Enter level by pressing number keys and SET key or select Fitness ON/OFF by pressing "0" key.

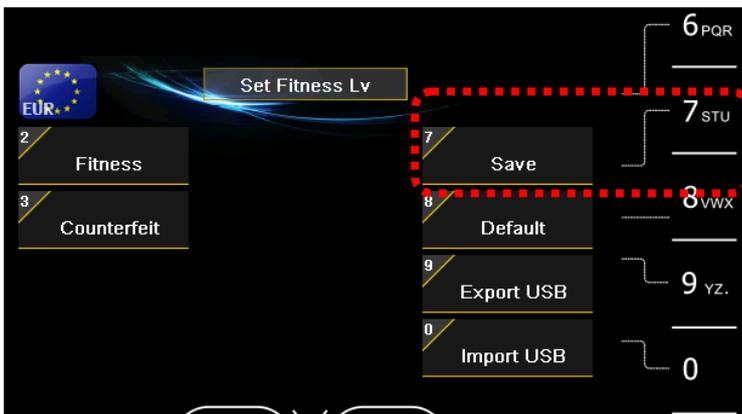


# Magner175V/175FF USER Guide

⑥ Press START/STOP key twice.

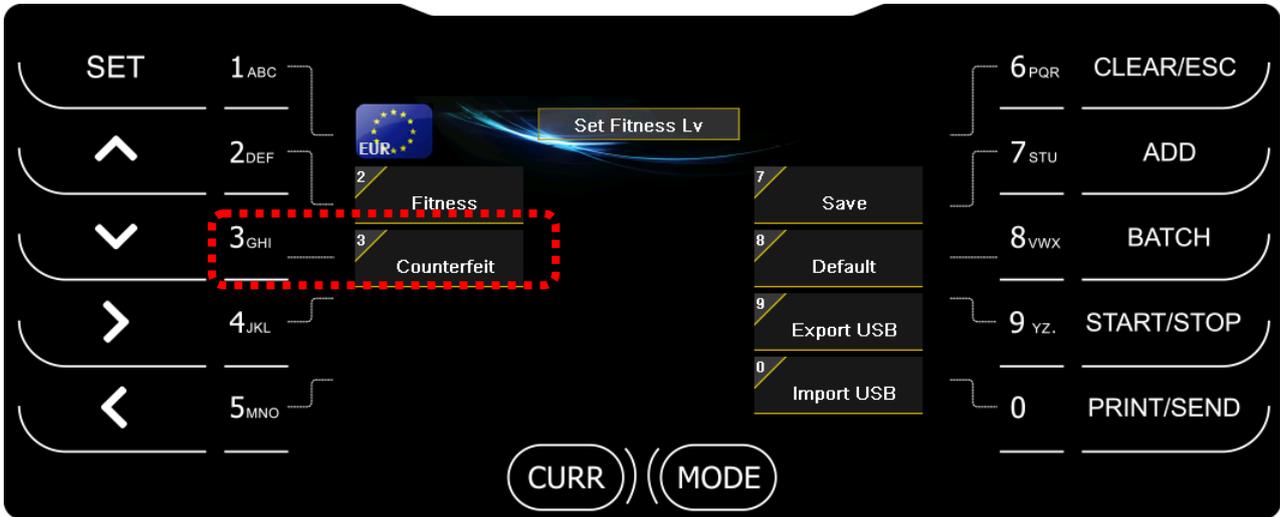


⑦ Save the changed level by pressing "7" key.

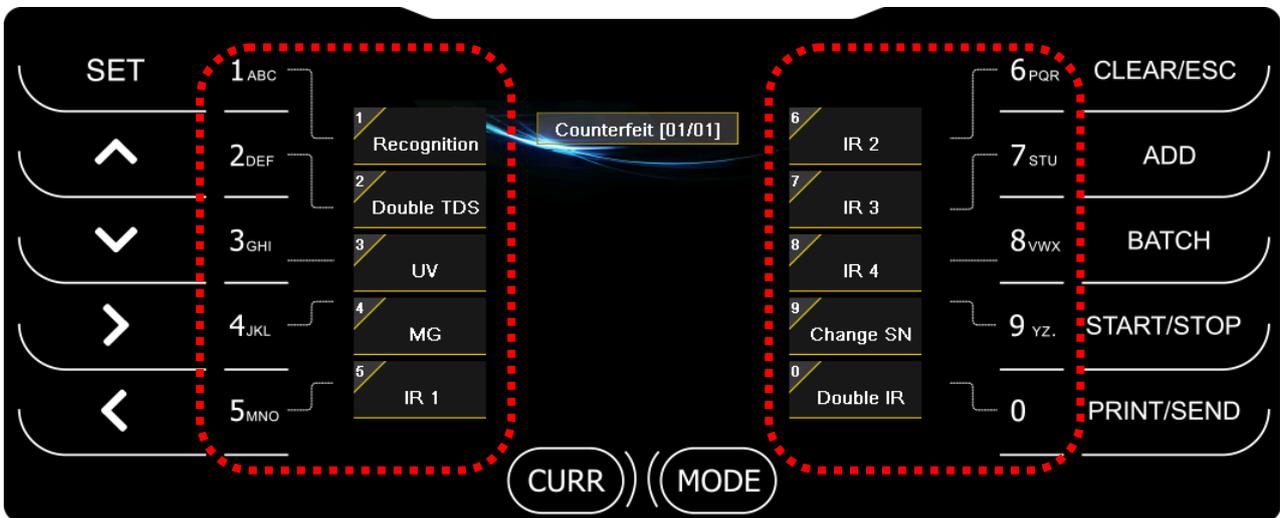


## 6. CF Level

After press SET key and “3” key, you can enter Counterfeit Level mode.

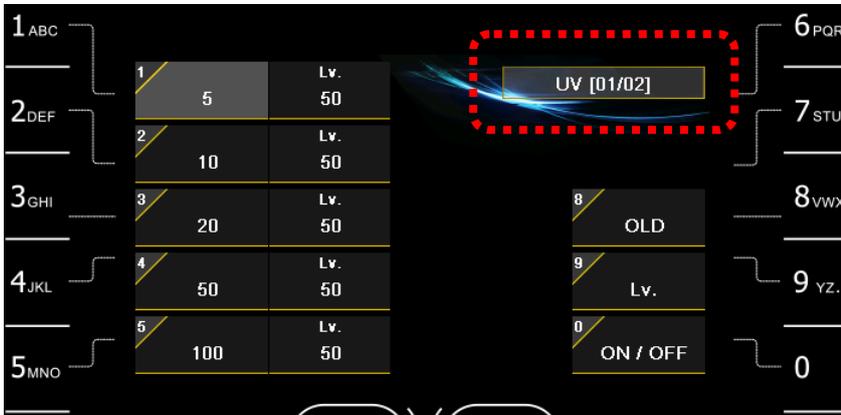


After select item first, adjust CF level as below.

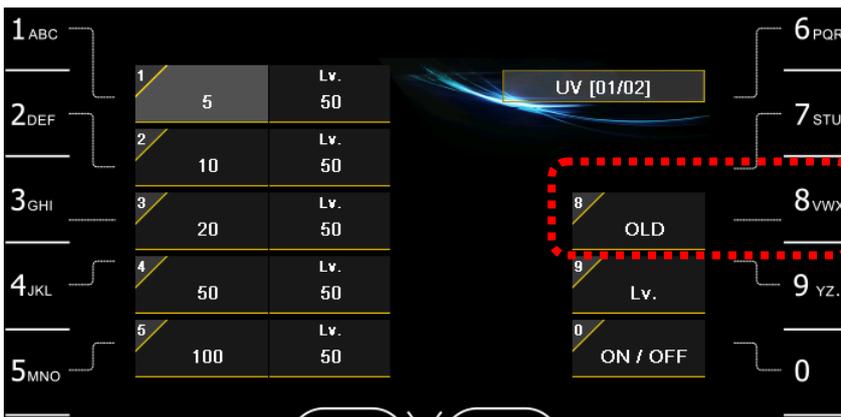


# Magner175V/175FF USER Guide

① Select CF item. (for example UV)



② Select Version by pressing "8" key.

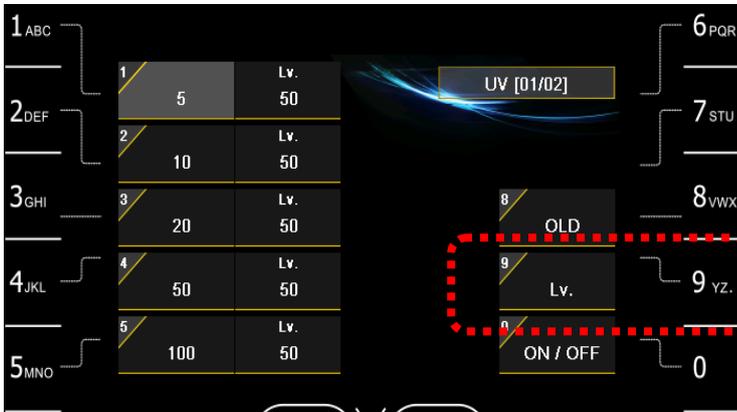


③ Select Denomination by pressing 1~5 key.

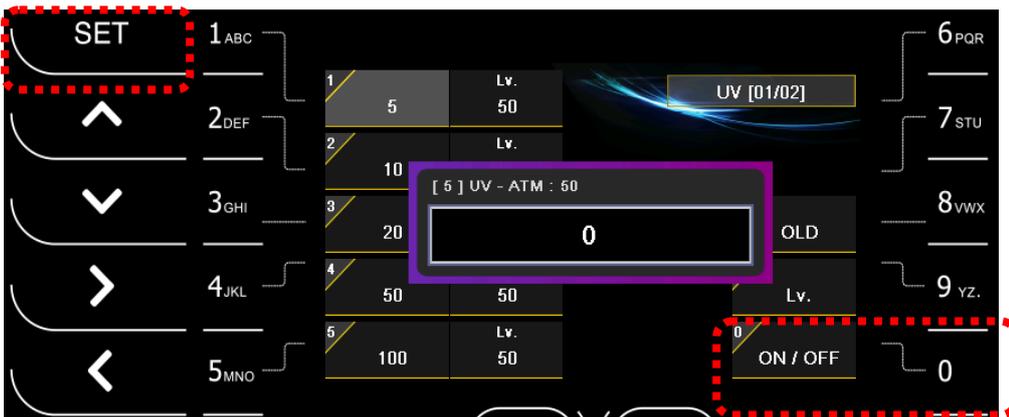


# Magner175V/175FF USER Guide

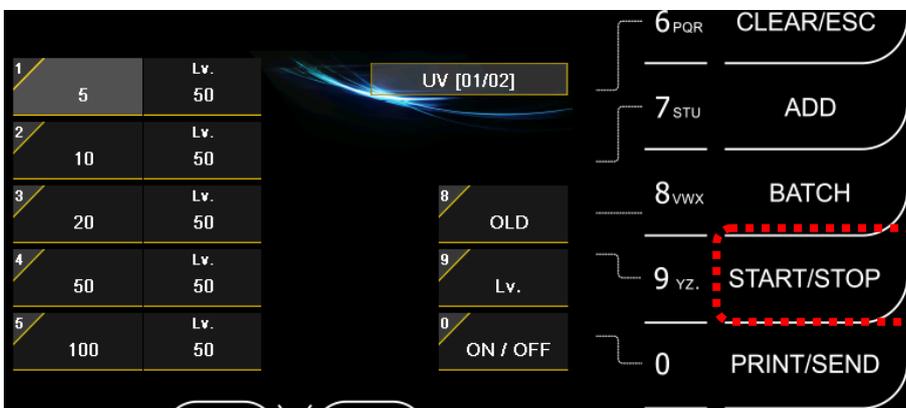
④ Select Lv. by pressing “9” key.



⑤ Enter level by pressing number keys and SET key or select Counterfeit ON/OFF by pressing “0” key.

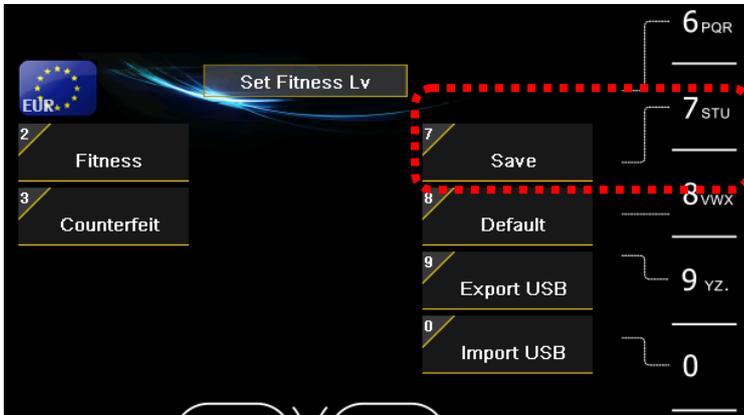


⑥ Press START/STOP key twice.



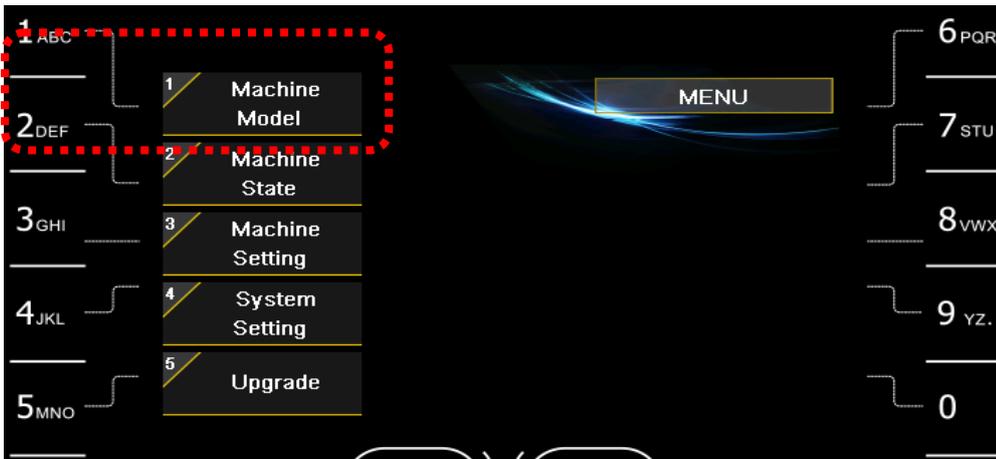
# Magner175V/175FF USER Guide

⑦ Save the changed level by pressing “7” key.



## 7. Machine Model

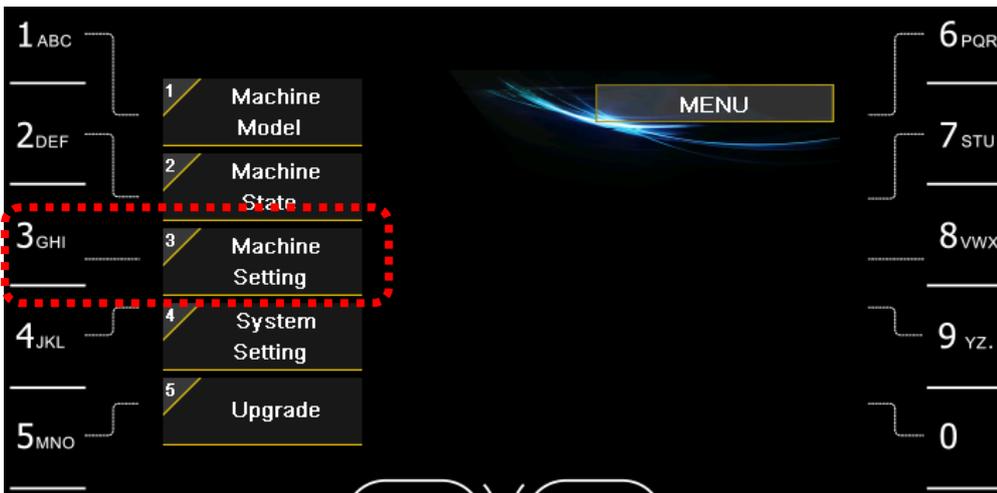
When long press START/STOP key and press “1” key, you can check machine information.



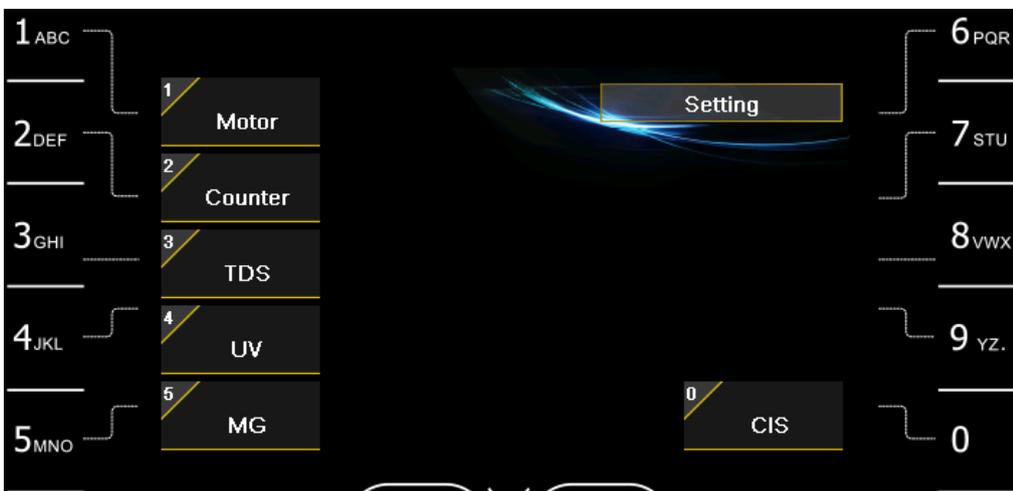
## 8. Machine Setting

Pincode is needed.

When long press START/STOP key and press “3” key, you can enter Machine Setting mode.

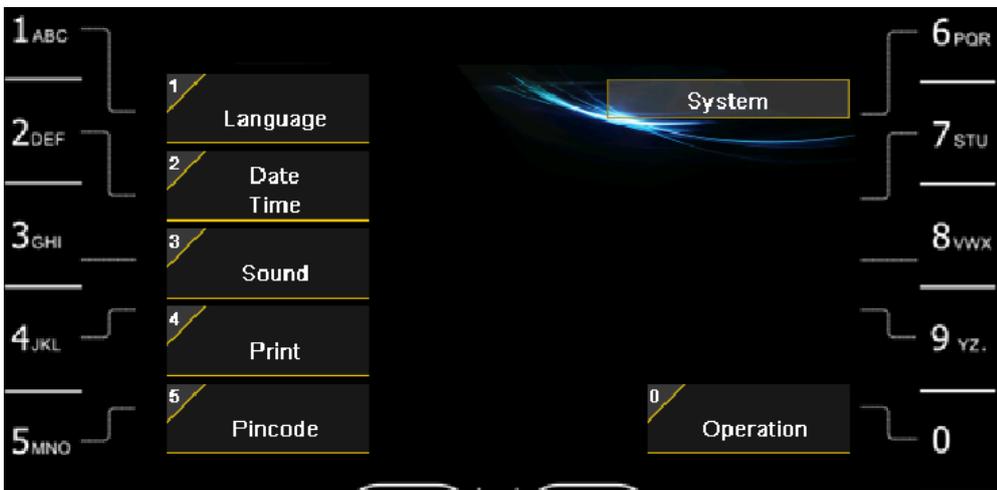
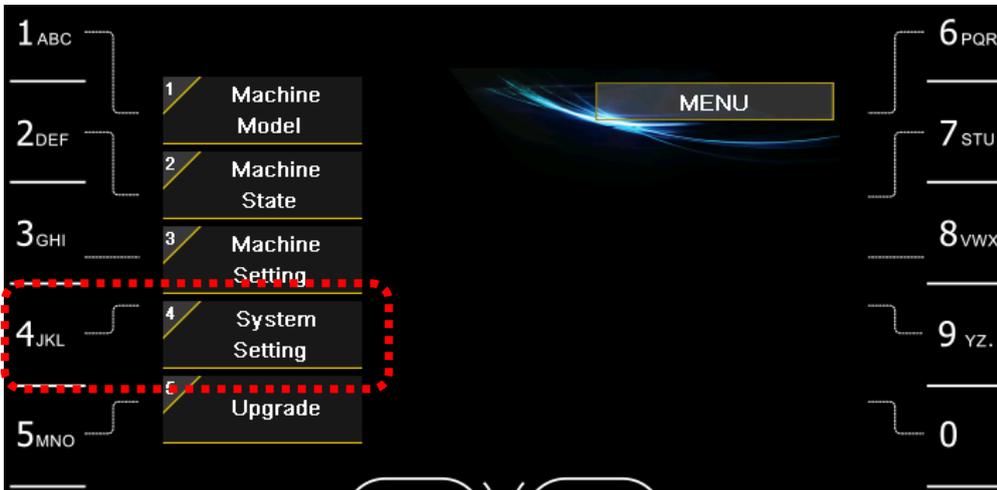


You can set each sensor by pressing number keys.



## 9. System Setting

When long press START/STOP key and press “4” key, you can enter System Setting mode.

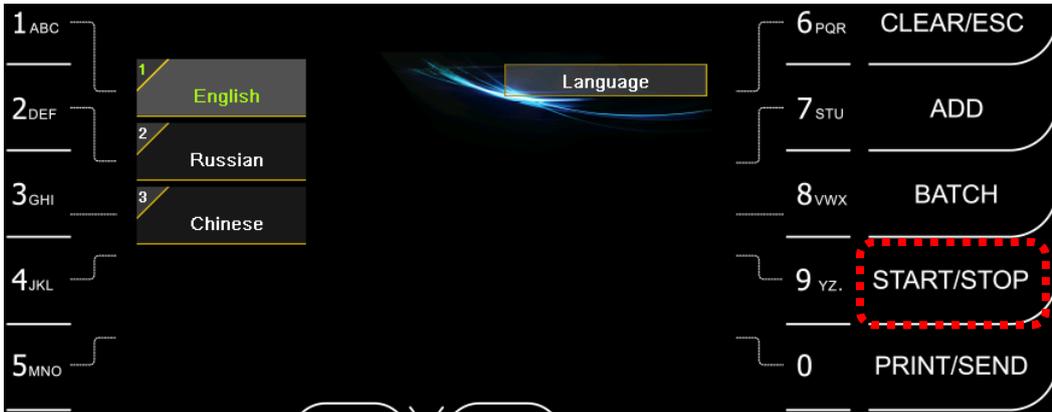


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## 1) Language

Press "1" key -> Press Number key for selecting Language for display.

When press START/STOP key, exit the mode and the selected language is displayed.



## 2) Date/Time

Press "2" key -> Press Number key for entering Date and Time.

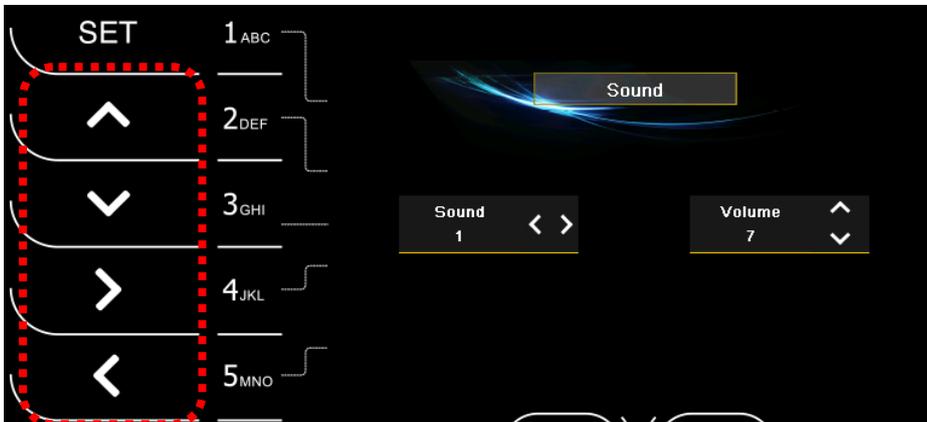
When press "SET" key, the entered data is accepted.

When press START/STOP key, exit the mode and Date and Time setting is completed.



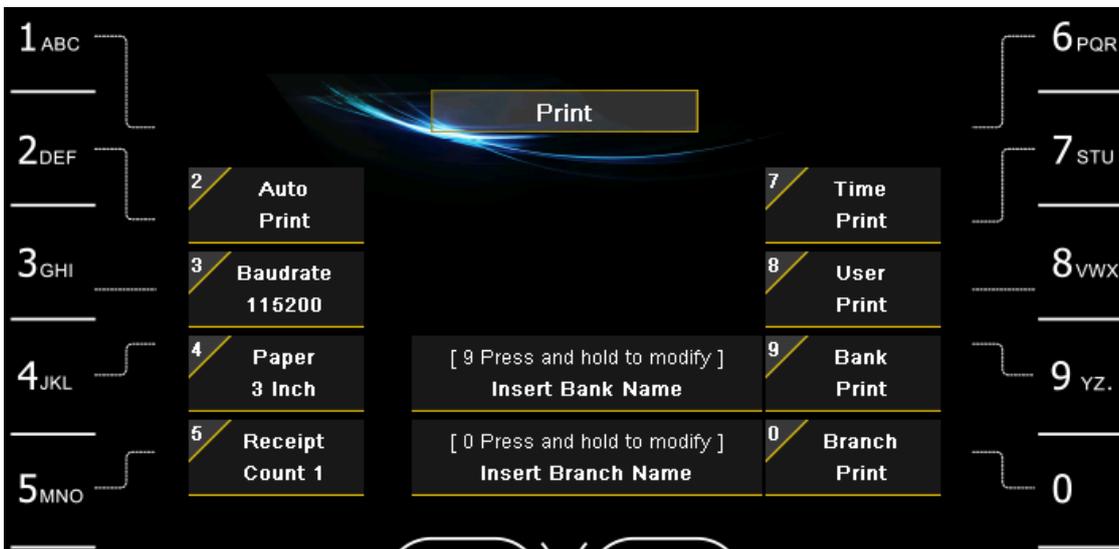
## 3) Sound

Press “3” key -> Press “>”, “<” key and “^”, “v” key for selecting and adjusting Sound and Volume.



## 4) Print

Press “4” key and enter Printer setting mode.



- **Auto Print**

After finish the counting, the receipt is printed automatically.

- **Baud rate**

Select Baud rate between Machine and Printer.

# Magner175V/175FF USER Guide

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- **Paper Size**

Select paper size. (2 inch and 3 inch)

- **Receipt Count**

Select the number of the printed Receipt.

- **Time Print**

Select to print Time to Receipt.

- **User Print**

Select to print User Name to Receipt.

- **Bank Print**

Select to print Bank Name to Receipt.

When long press "9" key, you can enter or change Bank Name.

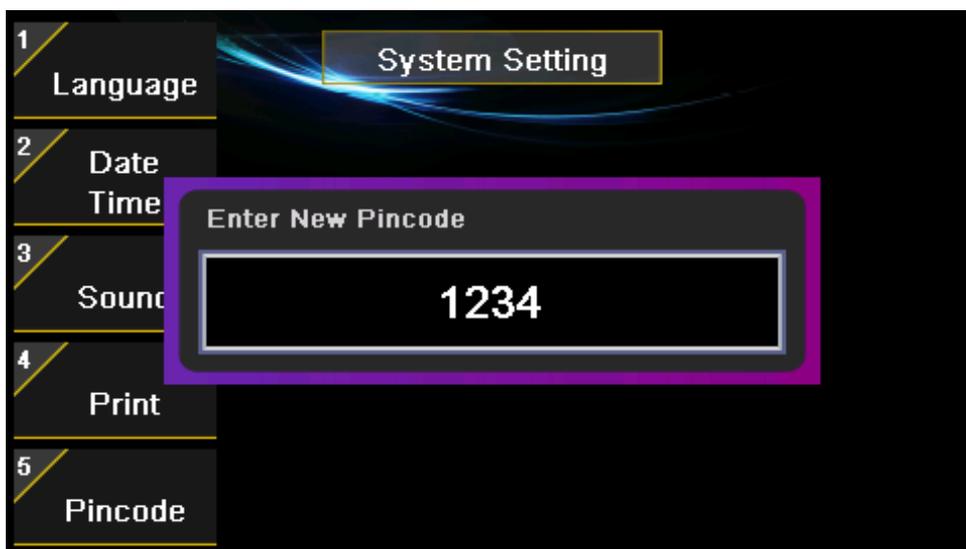
- **Branch Print**

Select to print Branch Name to Receipt.

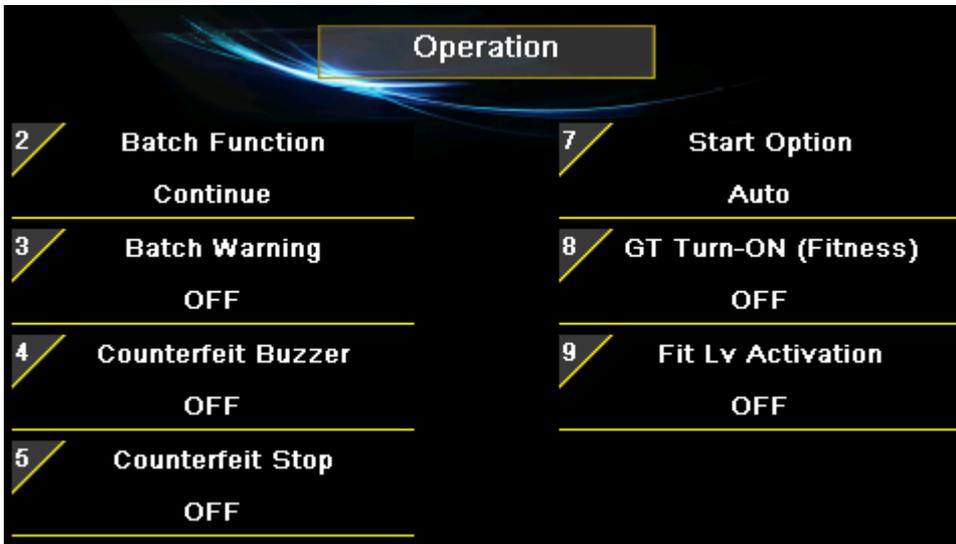
When long press "0" key, you can enter or change Branch Name.

## 5) Pincode

Change Pincode of MAGNER175V/175FF. (Pincode is needed.)



## 6) Operation



- **Batch Function**

Continue – When next Batch is started, the displayed value is started from the previous counting result..

Clear – When next Batch is started, the displayed value is started from 0.

- **Batch Warning**

When Batch is not complete and the user removes the notes from Stackers then error message will show.

- **Counterfeit Stop**

When counterfeit is sent to Reject Pocket, the machine makes the warning sound.

- **Start Option**

By pressing Start/Stop icon or key, machine will start or stop counting.

- **GT Turn-ON (Fitness)**

When enter FIT or ATM mode, GT is turned on automatically.



## 10. Network Setting

When long press “^”key, you can set Network.



You can enter the required information by number keys and ADD key. (ADD key - enter “DOT”)

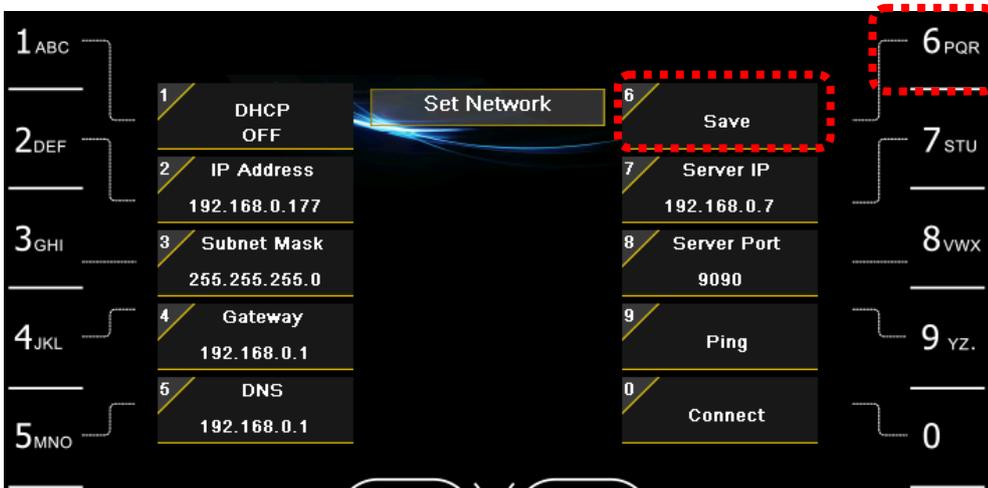
After enter each item, press SET key for accepting.



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After enter all data, try to press “6” key for saving the information.



## 11. Specification

Counterfeit Detection	CIS, IR, MG, UV, FL		Pocket Capacity (New/Old)	Hopper	Over 500 Notes
Currency	Maximum 10 currencies			Reject Pocket	100 Notes
High Speed Value counting	Count Only	1200 notes/min		Stacker	250 Notes
	Value	1200 notes/min	Dimensions	300(W) x 321(D) x 310(H) mm	
	Fitness(Magner175FF)	1200 notes/min	Weight	Net: 14 Kg, Gross: 16 Kg	
	Serial(option)	1000 notes/min	Power Supply	100 ~ 240V AC, 50/60 Hz	
Fitness	Stains, Limpness, Dog-ears, Tears, Holes, Folds, Mutilations, Thickness Repairs, Composed, De-inked, etc.		Globalization	Local language support, software customizing	
			Communication Channel	LAN, USB, RS232C (External Display, Thermal Printer)	
User Interface	Colors TFT-LCD(4.3 inch), Audio		Upgrade	LAN, USB	

## 12. Error Code

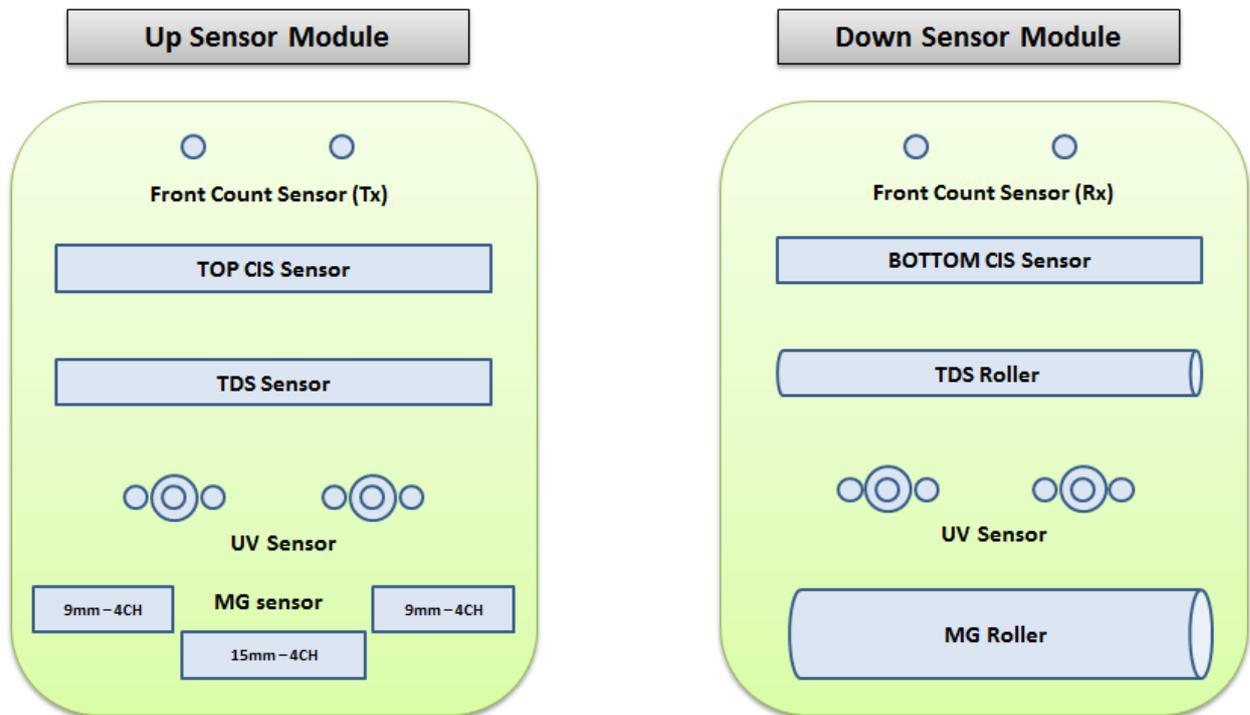
HI Code	Low Code	Error
12	1~2	Chain Error
	3~4	Skew Error
	6~7	Size Error
	8	Skew Error
	9	Jam Error;
	10	Communication Error
	12~14	Communication Error
	15	Double Error
	24	POCKET FULL
	25	BATCH FULL
	26	REJECT POCKET FULL
	27	Different Denomination
	28	Different Face
	29	Different Orientation
	31	Different Version
	40	Notes followed by Chain
	default	Err-Main12
14	1~9	MG Error
	10~19	UV Error
	20~25	Tape
	51	IR + MG
	52	IR + UV
	53	UV + MG
	54	IR + UV + MG
	55	IR + Tape
	56	MG + Tape
	57	UV + Tape
	58	IR + MG + Tape
	59	IR + UV + Tape
	60	UV + MG + Tape
	61	IR + UV + MG + Tape
	default	Err-Main14

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16	1	Old Version
	2	New Version
	3	VeryNew Version
	11~20	User Select Denom
	default	Err-Main16
22	1~2	Skew Error
	3~5	Value Error
	6~8	Skew Error
	9	Size Error
	10	Chain Error
	11	Double Error
	default	Err-DM22
23	6~11	Value Error
	20	Old Version
	22	New Version
	default	Err-DM23
24	1~10	IR Error
	11	Double Error
	12	Miss metalthread
	20	Different Serial
	21	Change Serial Number
	default	Err-DM24
28	1	Missing Serial Number
	2	uncertain Serial Number
	3	Different Serial Number
	default	Err-DM28
29	1	Wrong Side of Barcode
	2	Search Error Barcode
	3	Wrong Type Barcode
	4	Exceed Pattern Numbers of Barcode
	default	Err-DM29

## 13. Maintenance

### 13-1. Sensor Structure



### 13-2. Daily Cleaning

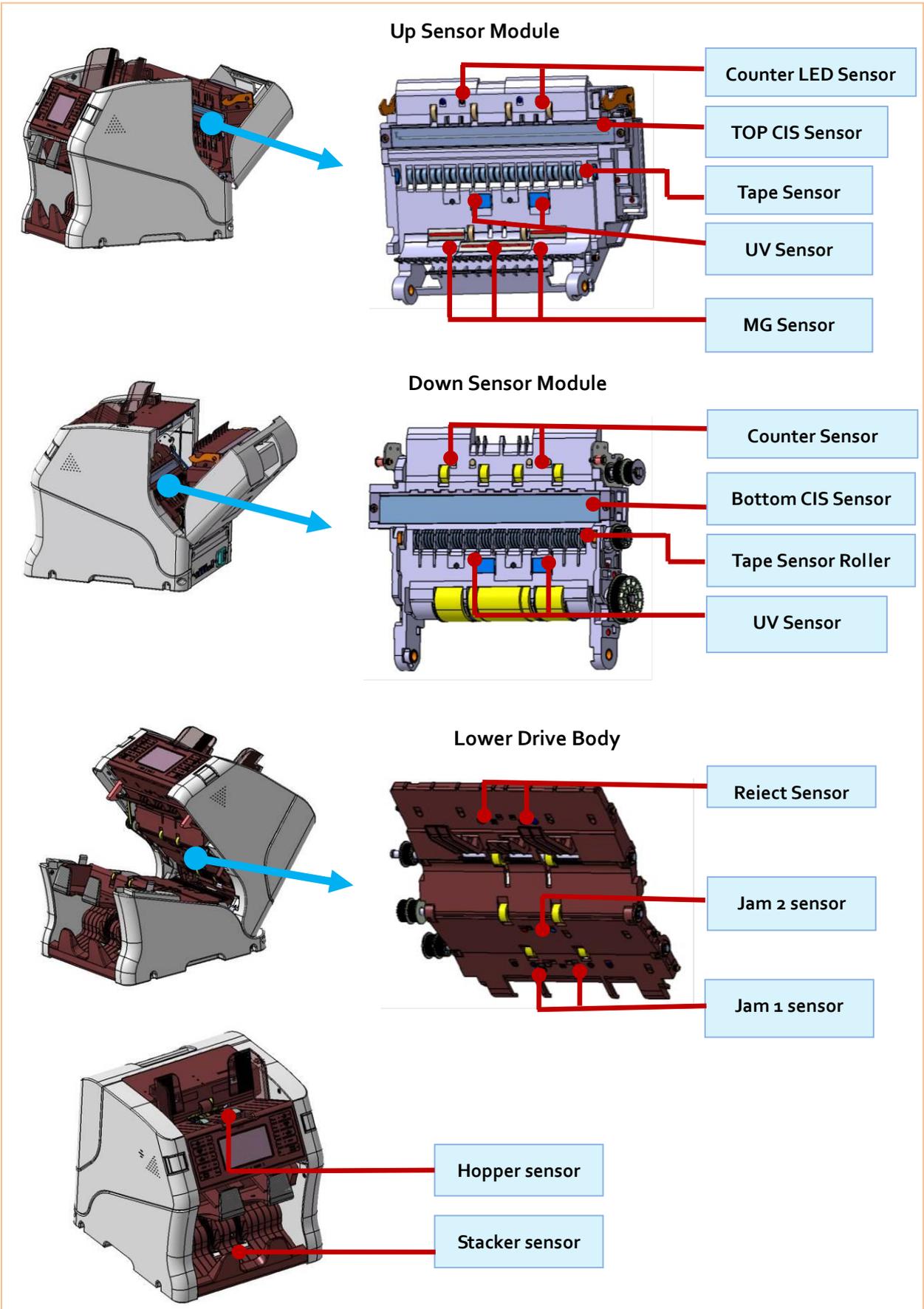
The machine has many sensitive sensors to perform high technology functions, for example fitness sorting, detecting counterfeit detection, recognizing denominations, etc.

Users are recommended to clean the machine sensors **at least once a day**.

Refer to following section and clean the machine regularly. Wipe with a cloth and/or can air.

※ **Turn the power off before cleaning the machine.**

# Magner175V/175FF USER Guide





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