Magner 100 User Manual

1 POCKET CURRENCY COUNTER& DISCRIMINATOR

- Advanced intelligent single pocket currency counter.
- Reliable discriminator with excellent

counterfeit detection.

 Easy Maintenance for cleaning sensors



- Contents -

| Introduce | | 3 |
|--------------------------|----------------------------|----|
| For Safety Use | | 3 |
| Appearance | | 10 |
| 1. Display Description . | | 11 |
| 2. Key Operation Descri | iption | 12 |
| | 3. Basic Operation | |
| 3-1 | . COUNT Mode 14 | |
| 3-2 | . EURO Mode 17 | |
| 3-3 | . USD Mode 17 | |
| 3-4 | . Local Currencies Mode 18 | |
| | 4. Operation Mode I | |
| 4-1 | . BATCH Mode 19 | |
| 4-2 | . CF Mode 20 | |
| 4-3 | . ADD Mode 20 | |
| 4-4 | . GRAND TOTAL Mode 24 | |
| | 5. Operation Mode II | |
| 5-1. | MIX Mode 27 | |
| 5-2. | SP Mode 28 | |
| 5-3. | SP VERS Mode 28 | |
| 5-4. | SG Mode 29 | |
| 6. USER Mode | | 30 |
| SPECIFICATION | | |
| | 33 | |
| Error Code List | | 34 |
| | Maintenance 36 | |
| | Simple Trouble Shooting 37 | |

Introduce

Thanks for your purchase of iSNIPER.

iSNIPER is the advanced intelligent single pocket currency counter.

Depending on the variant used, it can be used to check banknotes for authenticity, denomination, value, to sort and account these accordingly and to count banknotes.

Utilizing Full IR CIS sensor, it can recognize value and count banknotes, while providing the highest level of protection against counterfeits.

iSNIPER works with External Display, Serial Printer and PC.

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.

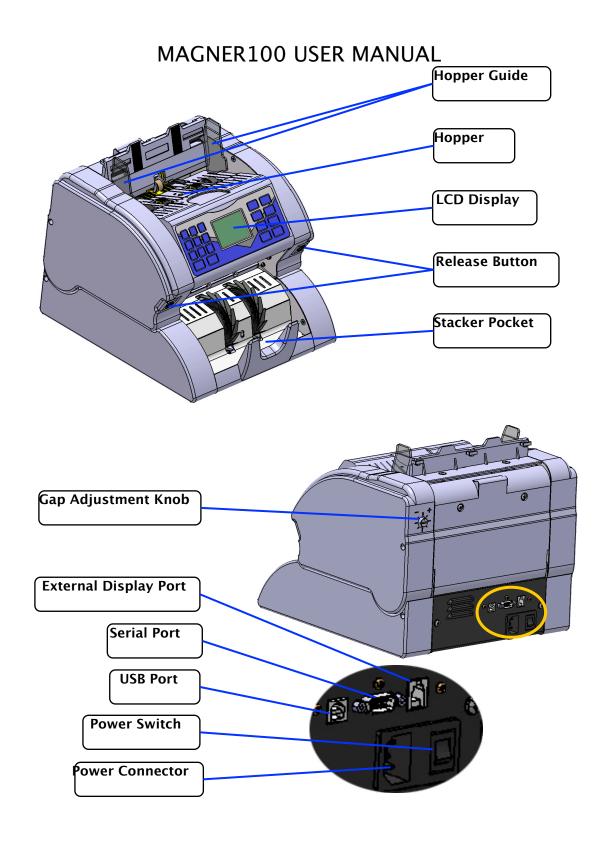
Please read this instruction manual thoroughly in advance to use in the correct way.



when simple a three real type of the souther souther to the product of the using the product of the product of the using the product of the product of the product of the using the product of the produc

shock to the first with a stable cook it may cause explosion and fire,

Mag

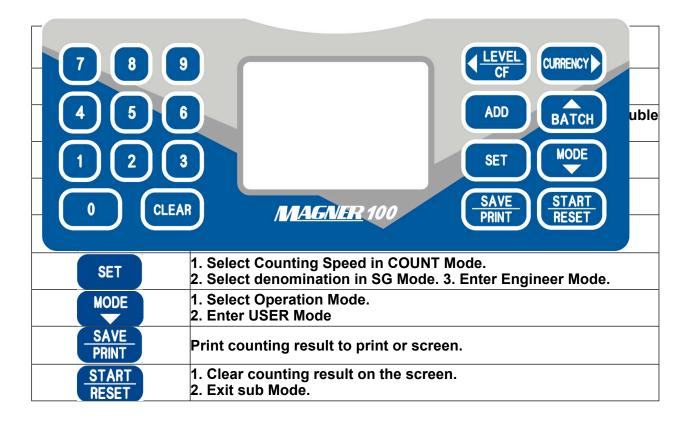


1. Display Description



4

2. Key Operation Description

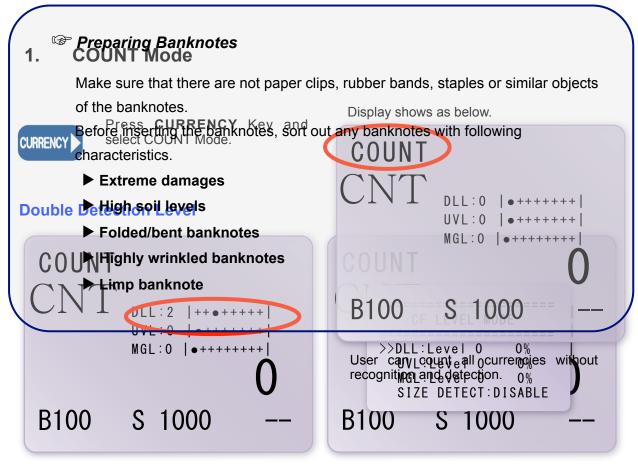


Shortcut Key (Long Key Operation)

If press and hold down Number Key, you can select special currency or mode directly.

| 0 | Go to COUNT Mode. |
|---|-------------------------------------|
| 1 | Go to EURO (local currency 1) Mode. |
| 2 | Go to USD (local currency 2) Mode. |
| 3 | Go to local currency 3 Mode. |
| 4 | Go to local currency 4 Mode. |
| 5 | Go to local currency 5 Mode. |
| 6 | Go to local currency 6 Mode. |
| 7 | Go to NORMAL COUNT Mode. |
| 8 | Go to ADD Mode. |
| 9 | Go to GRAND TOTAL Mode. |

3. Basic Mode





When press LEVEL Key, DDL is changed.
And long LEVEL Key can enter CF LEVEL MODE.
In this mode, user can select DDL, UVL, MGL and SIZE DETECTION.
Move Cursor

Change Level.





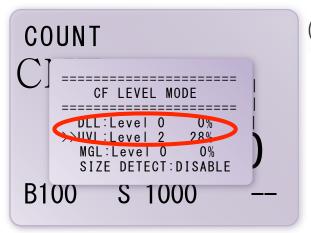
Magner INT



DDL means **D**ouble **D**etection **L**evel in Count Mode. User can select 1~8 levels.

- DDL 1~2 : For local currency.
- DDL 3: For Euro

UV Level





In COUNT Mode, machine has adjusted UV Level function for detecting white paper. User can select 1~8 levels.

According to thickness of notes, UV Level is different.

Before counting, please check and adjust Level first.

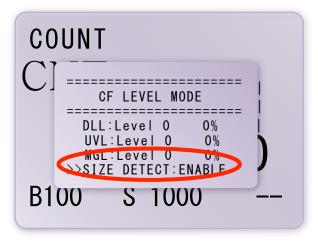
MG Level



In COUNT Mode, machine can have simple detection function by adjusting MG Level. User can select 1~8 levels.

Before counting, please check and adjust Level first.

SIZE Detection





If SIZE DETECTION is enabled, machine can detect the different size note. When a note which has a different size (±5mm) from the first note is inserted, machine stops.

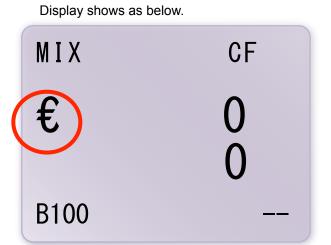
2. EURO Mode



Press **CURRENCY** Key and select EURO Mode.



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



In this Mode, the machine can **recognize** and **detect** EURO currency.

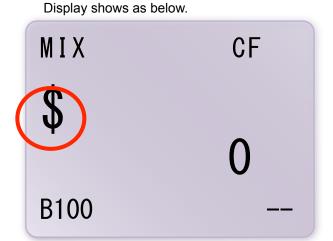
3. USD Mode



Press **CURRENCY** Key and select USD Mode.



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



In this Mode, the machine can **recognize** and **detect** USD currency.

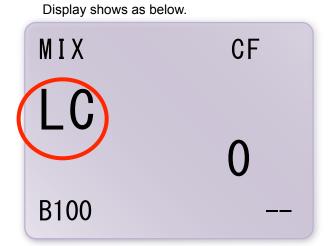
4. Local Currencies Mode



Press **CURRENCY** Key and select local currency.



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





Note!Some local currencies may be counted only.

4. Operation I

4-1. BATCH Mode



If press BATCH Key, user can select batch number which is registered already. (5, 10, 20, 50, 100)

When user wants to select special batch number, please use Number Key (0~9).

If press CLEAR Key, batch number will be changed to 0.

Display shows as below.



CLEAR

4-2. CF Mode

If you want to detect counterfeit during counting, press CF Key..

CF

When press and hold down ADD Key,

you can enter ADD

Press MODE Key to get item.

Select 22DD 10 00S OET Key to enter.

B100

CF - Machine detects counterfeit with UV, MG and IR.
UV - Machine detects counterfeit with UV.

IR - Machine detects counterfeit with IR.

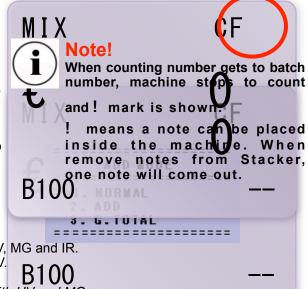
UV+MG - Machine detects counterfeit with UV and MG. **UV+IR** - Machine detects counterfeit with UV and IR.

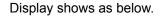
MG+IR - Machine detects counterfeit with MG and IR.

DTAL Mode.

When you select LOCK, the previous condition is kept although you press CF Key.

Display shows as below.

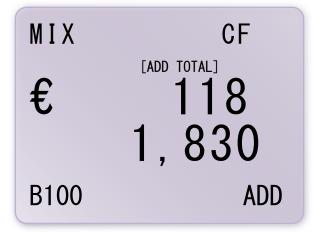




When count notes, display shows the current counted information



When remove the notes from stacker, display shows added information between current and ahead counted notes.



When remove the notes from stacker, display shows added information between current and ahead counted notes.

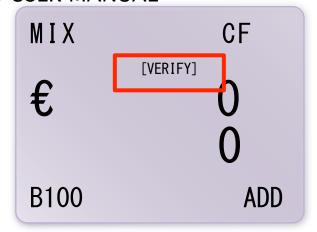
Verify Function



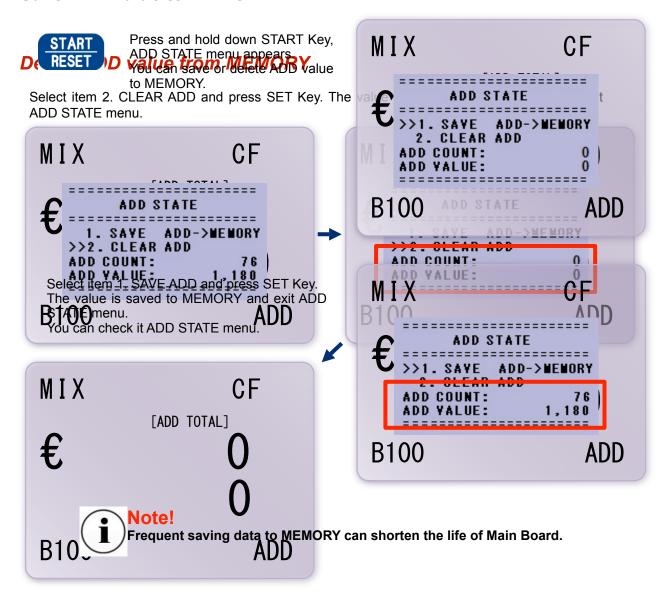
In ADD Mode, press ADD Key again shortly.

VERIFY function is activated and display shows as below.

When VERIFY function is turned on, you can count new notes which is no relation with ADD value.



Save ADD value to MEMORY



4-4. GRAND TOTAL Mode

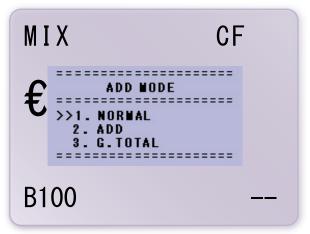


When press and hold down ADD Key, you can enter ADD or G.TOTAL Mode. Press MODE Key to select item.

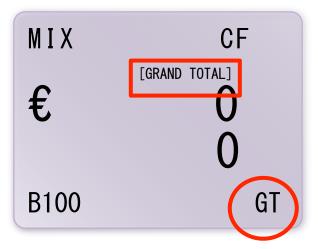


Select 3. G.TOTAL and press SET Key to enter.

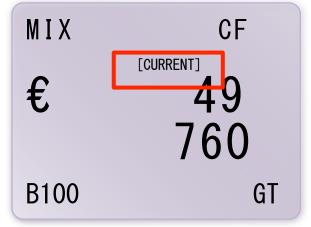




Display shows as below.



When count notes, display shows the current counted information





When remove the notes from stacker, display shows ADD TOTAL x value .



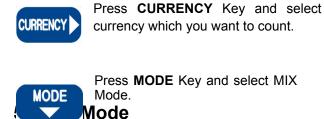
When press START Key, you can check ADD TOTAL and GRAND TOTAL value.





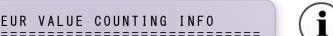


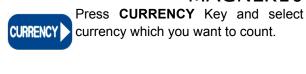
5-1. Mix Mode





You can count all denomination of selected



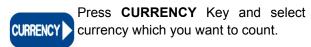






The machine sorts out the same denomination with first inserted note.

5-3. SP VERS Mode









The machine sorts out the same denomination and version with first inserted note.

5-4. SG Mode



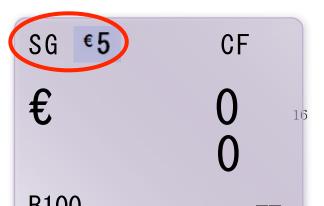
Press **CURRENCY** Key and select currency which you want to count except USD.



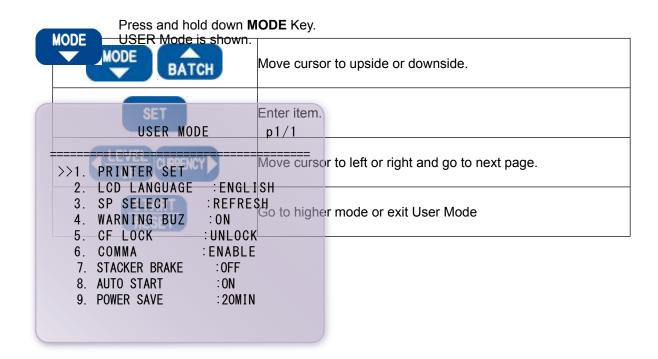
Press **MODE** Key and select SG Mode.



Press **SET** Key and select denomination.



6. USER Mode



1. PRINTER SET

| 1. BAUD RATEPRINTER | Morpe the baud/rate between machine and printer. | | |
|-------------------------------|--|--|--|
| 2 PAPER SIZE | Set up the size of printer paper. | | |
| | Set:upi 1/15/2008 RSze | | |
| 4. BLZNKPAPERASIZE | User set us the blank of tail. | | |
| 5 P. 4. BLANK OF TA | : 12 X 24 Set up 5 um her of receipt. | | |
| | Set:uplortie@paper automatically or manually. | | |
| 7 PAPER CUTTII 7. PRINT ID | Gelect NO print ID to receipt or not. | | |
| 8. SELECT ID | Enter NORE ID to machine. | | |
| | LEVEL and CURRENCY Key: Move position. | | |
| | ADD and SET Key: Select characters. | | |

2. LCD LANGUAGE

Select displayed language on screen.

3. SP SELECT

In SP Mode, machine recognized first note continuously or not.

REFRESH: After stop, machine remembers next inserted note again.

CONTINUE: Machine memorizes the first note continuously.

4. WARNING BUZ

If select ON, when error is caused, machine makes a beep.

5. **CF LOCK**

If you select UNLOCK, you can select the method of counterfeit detection.

After select UNLOCK, counterfeit detection function is changed by pressing **CF Key**.

6. COMMA

If select ENABLE, display shows COMMA by the thousand.

7. STACKER BRAKE

If select ON, when error appears, machine stops the stacker before the error note goes to Stacker pocket.

8. AUTO START

If select OFF, machine start to count banknotes when operator press **START Key**.

9. POWER SAVE

If user does not use the machine during regular time, the machine enters screen save state

SPECIFICATION ------

-Technical Specification

| Available currencies | EURO, USD, LOCAL | | | |
|-----------------------------|----------------------|----------|----------------------|--|
| Dimension(mm) | 296(W)×325(L)×280(H) | DISDIAV | | 3.1" Graphic LCD (192x128 dot) |
| Weight | Approx. 10 Kg | Denomina | | Full Line Image Sensor, Color Sensor |
| Countable Notes Size | IH: 60 × 90MM | | en Detection | UV, FL, MG (Magnetic Thread Detection), IR |
| Countable Note Thickness | 0.08 ~ 0.12mm | Speed | Recognition Count | 900 notes/min |
| Hopper Capacity | 500 notes | • | Piece Count | Max. 1100 notes/min |

| Stacker Capacity | 200 notes | Feed System | Roller friction type |
|------------------|------------------------|-------------------|----------------------|
| Power Supply | 100 ~ 240V AC, 50/60Hz | Power consumption | Approx. 140 Watts |

-Features

| Local Currency | Max. 4 currency |
|------------------|---|
| IR Detection | Full Line IR CIS Sensor |
| External Display | LCD type for customer |
| Bill Printout | With RS232C Interface for PC and external printer. Print user name. |

Error Code List

| No | Error Code | Description |
|----|---------------|--|
| 1 | Chain 1 error | The gap between two notes is under 100mm. |
| 2 | Chain 2 error | After note passes counter sensor, note length is over 100mm. |
| 3 | JAM 1 error | Encoder value isn't increased although motor turns. |
| 4 | JAM 2 error | Because note places on Counter sensor and motor is kept turning ticking over, length information is increased. |
| 5 | JAM 3 error | Note is not moved to upside when motor turns counter direction. |
| 6 | Motor error | Motor isn't controlled properly. |
| 7 | Double error | Thickness by measuring IR is lower than the standard. |
| 8 | Half error | Only half of note is recognized. |
| 9 | MinSize error | Note size is smaller than the minimum size. |
| 10 | SKEW error | The difference between R and L is over 10 mm. |
| 11 | Rotate error | Note is rotated over an angle of 20 degrees. |
| 12 | XSize error | X size of note is not matched. (CIS sensor information) |
| 13 | YSize error | Y size of note is not matched. (Cnt sensor information) |
| 14 | IR 1 error | IR error |

| 15 | IR 2 error | IR error |
|----|---------------|-------------|
| 16 | IR 3 error | IR error |
| 17 | Color 1 error | Color error |
| 18 | Color 2 error | Color error |
| 19 | UV 1 error | UV error |
| 20 | UV 2 error | UV error |
| 21 | MG 1 error | MG error |
| 22 | MG 2 error | MG error |
| 23 | MG 3 error | MG error |
| 24 | Image 1 error | Image error |

| 25 | Image 2 error | Image error |
|----|----------------|--|
| 26 | lmage 3 error | Image error |
| 27 | Differ value | Counted note is not matched with the selected denomination. |
| 28 | Differ version | Version is different with the set version. |
| 29 | Sliding error | After error is caused or Batch is completed, a note comes out together successively. |
| 30 | Check Inner | Note is inside of machine. |
| 31 | Dog Ear error | Edges of note are folded. |
| 32 | Scratch error | Image of notes is damaged and machine cannot recognize the denomination. (especially Polyer notes) |

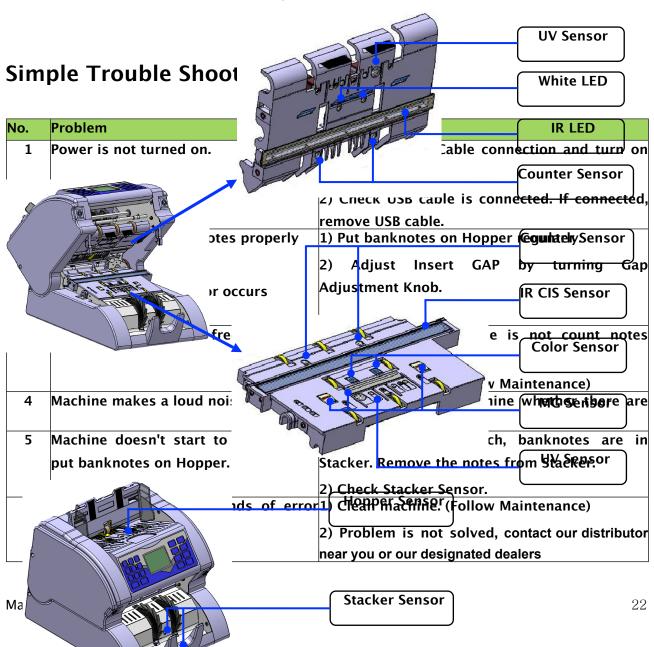
Maintenance

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

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

Refer to following section and clean the machine regularly.

* Please turn the power off before cleaning the machine.



Magner100 User Manual