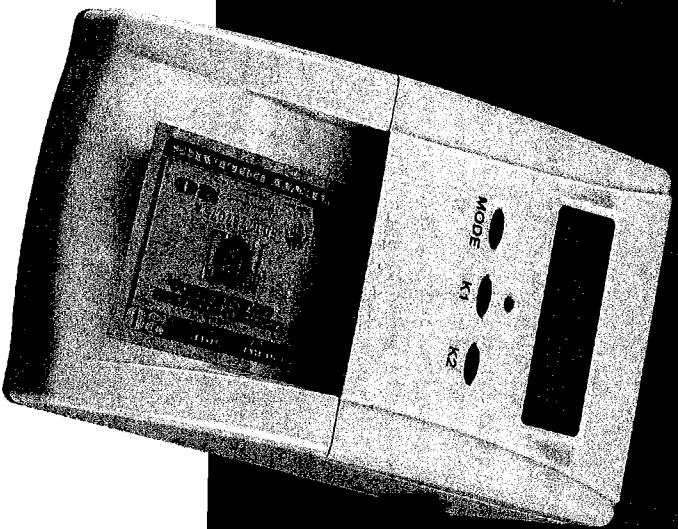


#8217

# PROFESSIONAL MULTI-BANKNOTES DETECTOR



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## **Federal Communications Commission(FCC)**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment causes harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and the receiver.
- Connect the equipment onto an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help. Shielded interconnect cables and a shielded AC power cable must be employed with this equipment to ensure compliance with the pertinent RF emission limits governing this device. Changes or modifications not expressly approved by the system's manufacturer could void the user's authority to operate the equipment.

## **Guarantee certificate**

### **Guarantee seals**

This device is guaranteed for 12 months from purchase date against any factory defects and malfunctioning. The guarantee is applicable only if the machine has not been tampered with. The special guarantee seals on the joints of the machine cannot be removed or detached without evident and easily seen damage occurring. The guarantee seals safeguard the user against any kind of tampering carried out fraudulently, unknown to the user or to the damage thereof.

## **About this Manual**

This manual consists of the following chapters:

### **Introduction**

Use the Introduction chapter to learn about the features of the device, view a checklist of items that are shipped with the package, and illustrate the structure of the device.

### **Operation**

Use the Operation chapter to learn how to install the device and get your system up and running.

### **Maintenance and trouble shooting**

Use the maintenance and trouble shooting chapter to learn how to maintain this device.

### **Specification**

Electronics and mechanical specifications

Thank you for having purchased our BANKNOTE DETECTOR, for correct use of the device, please read the instructions in this manual carefully.

## **Introduction**

This device is a reliable, easy operating banknote detector. It recognizes counterfeit banknotes from genuine ones, with its rechargeable battery cells inside, users can bring it to elsewhere when it is needed. It detects the banknotes magnetic ink, printing process, length, paper transparency etc.

This machine is the latest anti-counterfeit device with the most advanced technologies, It can automatically detect Euro, US Dollar and one or two of the following: British Pound, Russian Ruble, Swedish Krona, Japanese Yen, Switzerland France, Canadian Dollar, Brazilian Reils etc.

This device functions also with rechargeable batteries, this is a very handy function since it means that this device can be used even in the absence of mains supply and on mobile premises. The Nickel Magnesium booster batteries are equipped with an automatic recharging circuit.

## **Features**

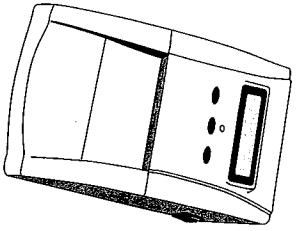
- Recognition of the banknote value and type
- List sum of each currency
- List total pieces of banknotes read
- Rechargeable battery cells inside for portable usage
- Large LCD with green backlight
- Banknote can exit from front or rear by user setting
- Update software via Internet, easy to maintain
- ★ Selectable languages in operating menu ,such as English ,Italian, Spanish ,French etc
- ★ Switch power adapter ,wide voltage range :90V~240V

Remark:

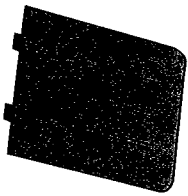
- ★ Available only in enhanced model

## Items shipped with the package

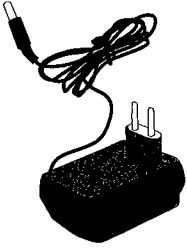
Please check the outlooks of your machine, and check the part list, inside the box should includes the following:



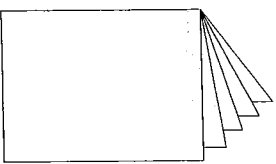
Banknote detector



Tray for banknote receiving

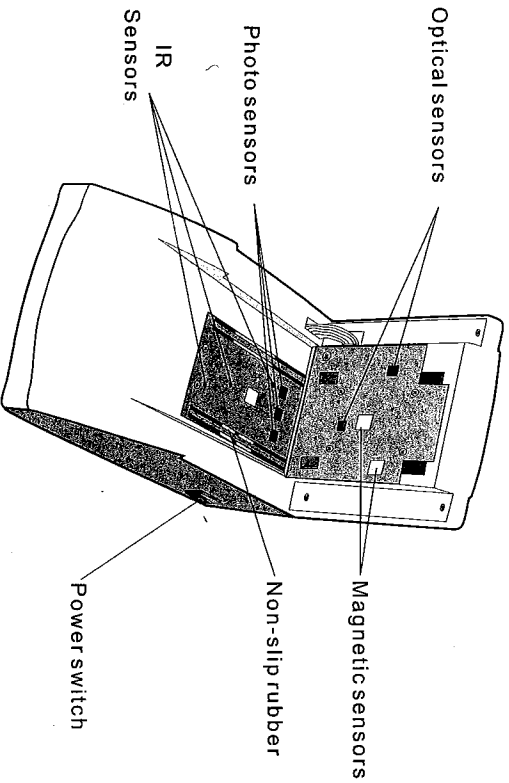


AC/DC adaptor



User's manual

## Structure



## Operation

### Installation

1. Insert the adapter plug into the point at the back of the device.
2. Insert the adapter into the mains ( 220V/110V).
3. place the banknote tray on the appropriate hooks on the back of the device, if it is needed.
4. Power on the device( when using the battery, step 1, 2 is not necessary )

### Operation

DETECTOR functions automatically

Banknotes to be checked are inserted one at a time, following the graphic instructions on the insertion table. The display shows all the information about the banknote. In the case of a counterfeit banknote, DETECTOR reflects it, emitting a high pitched sound signal; the red LED lights up and the words NOT IDENTIFIED appear on the display. In the case of an authentic banknote, DETECTOR accepts it, returning it to the rear tray; the green LED light comes on and the corresponding symbol appears on the display: Euro, US Dollar or the other type of banknote, the relevant value. If the banknote gets jammed in the machine, raise the cover and slip the banknote out.

### Testing Step:

1. The device performs a self-testing routine when power on, any failure message will be displayed, after self-testing, LCD display "READY ", indicates it is ready for testing.
2. Insert the tested banknote with the right side and right direction according to the illustration at the entrance.
3. The device detects the insertion of the banknote, gives a soft beep and wait for a brief time.
4. The motor starts, test process begin.
5. If the banknote is a genuine one, the LED turns green, and display the denomination, if the banknote is a counterfeit, the LED will turns red, and display "NOT IDENTIFIED", and beeps three times, banknote can be confirm as a counterfeit after 3 times of failures.

## Menu operation

During setting process, the device can detect banknote as normal.

### Setting the banknote exit direction

A. Turn on the machine, LCD display:

READY

B. Press MODE key, LCD display:

K1 EXIT DIR  
K2 LANGUAGE

C. Press K1 key to select the banknote exit direction, LCD display the corresponding message: "EXIT FROM REAR" or "EXIT FROM FRONT"

EXIT FROM REAR

D. Press MODE key to exit from the menu

READY

### Display Banknotes information

A. Turn on the machine, LCD display:

READY

B. To clear all the stored data, press K1 and hold for 2 seconds.  
To display the detected banknote information, press K2, the machine will display the detected banknotes denomination, quantity, and the total value.

C. Press MODE key to exit:

READY

## Setting language

A. Turn on the machine, LCD display:

READY

B. Press MODE key, LCD display:

K1 EXIT DIR  
K2 LANGUAGE

C. Press K2, select one of following languages:

SELECT LANGUAGE  
ENGLISH

Or

SELECT LANGUAGE  
FRENCH

Or

SELECT LANGUAGE  
ITALIAN

Or

SELECT LANGUAGE  
SPANISH

D. Press MODE key to exit from the menu:

READY

### Download software

A. Hold the MODE key and turn on the machine until LCD display:

DOWNLOAD MODE

B. Run download software in PC, LCD display:

LOADING SOFTWARE  
PLEASE WAITING

C. LCD will display (if succeed )

LOAD SUCCESS  
PRESS KEY RESET

D. Press MODE key, the machine will re-start again.

## Maintenance and troubleshooting

### Blocked banknote

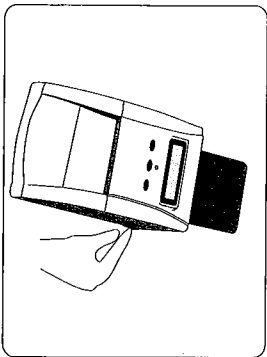
The tested banknote may be blocked due to one or more of the following:

- A. The banknote is too old or too thin.
  - B. The banknote has a crumple.
  - C. The banknote has not been inserted correctly.
- To eliminate this problem, lift the upper cover of the device and take out the banknote.

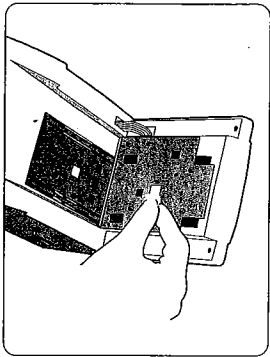
### Clean the sensors

The sensors, the non-slip rubber belts and wheels should be cleaned constantly.

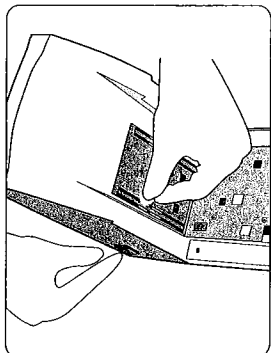
Turn off the device. Open the top moveable part.



Use a piece of cotton with some alcohol to clean all sensors and rubber wheels.

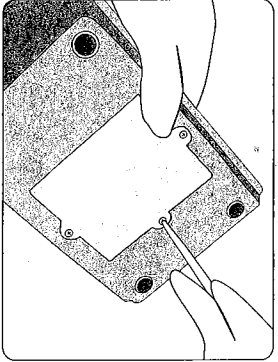


Put the alcohol cotton on the non-slip rubber belt and power up the device, the non-slip rubber belt go forward and backward.

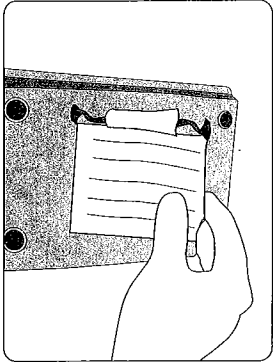


**Replace the battery**

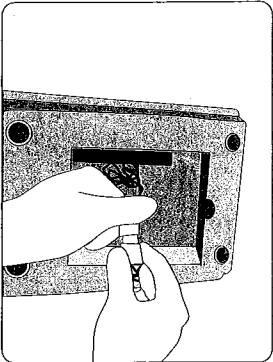
Open the battery cover on the bottom.



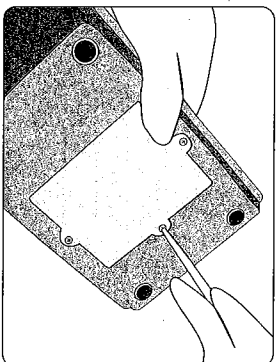
Pull the battery unit out.



Replace the old battery unit with a new one.



Insert the battery unit in and fasten the battery cover.



# Specification

Type of banknote ----- Euro, US dollar etc  
Speed ----- 0.7 second/one piece  
Verification ----- optical, magnetic, infra-red, photo  
sensors

Electronic specification  
Mains ----- 220V/110V AC 50/60HZ  
Power consumption ----- MAX 10W  
Battery capacity ----- 12V 1000mAH

Environment requirements  
(Storage)  
Temperature ----- -20°C~ 70°C  
Humidity ----- 10% ~ 90%  
(Operation)  
Temperature ----- 10°C~ 50°C  
Humidity ----- 20% ~ 80%

Physical dimensions  
Length ----- 210mm  
Width ----- 125mm  
Height ----- 100mm  
Weight ----- 1.4Kg