

MUNBYN Advanced Money
Handling Solution

IMC02 Counterfeit Detector
User Manual



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Version History

Date	By	Changes	Date
2020-12-05	Byron Zhong	Initial Version	1.00
2021-1-16	Byron Zhong	Add the EUR/GBP Currency Detecting Section	1.01
2021-6-01	James Hu	Add the Maintenance	1.02

1.0. Overview

1.1. Preface

Thank you for purchasing our products. The IMC02 is the best solution for the banknote counterfeit detection.

This user manual describes the operation steps and precautions for this product. In order to improve the use and working efficiency of the product, please read this manual carefully before using, so as to operate the product accurately. Please contact us if you encounter any problem.

We reserve the right to change the contents of this user manual at any time without notice.



Figure 1 - 1 IMC02 Counterfeit Detector

1.2. Abbreviation

Abbreviation	Definition
USD	United States Dollar
EUR	Euro
GBP	Great Britain Pound
LBP	Lebanese Pound
AED	United Arab Emirates dirham
CFD	Counterfeit Detection
IR	Infrared
MG	Magnetic
UV	Ultraviolet

Table 1 - 1 Abbreviations

2.0. Packing Open and Installation

2.1. Packing List

When you receive the package, open and check the packing list in the package.

Item Name	Picture	Quantity (pcs)	Description
Counterfeit Detector		1	Bill Counterfeit Detector
Battery		1	11.1V 500mAh rechargeable battery
Power Adapter		1	Power Adaptor
User Manual		1	

Table 2 - 1 Packing List

2.2. Power Supply

DC Power: Connect the power adapter to a 110V or 220V outlet, then connect the terminal to the machine's DC12V input socket.

Lithium Battery (optional) : When the batt ery was fully charged, the machine can work without power adapter.

3.0. Operating Instructions

3.1. Display Appearance

Currency Type

Banknote Exit Direction

CUR/DIR Button



Number of Banknotes

Denomination

REP/CLR Button

Figure 3 - 1 IMC02 Display Appearance

3.2. Turn On / Off the Machine



Power switch button

Figure 3 - 2 IMC02 Power Interface

Turn on the IMC02 by switch the power switch button to on, the screen will light up and the machine will start self-testing. If the self-test is successful, the number of banknote and the denomination will show as '0'.

Turn off the IMC02 by switch the power switch to off. When the screen lights off, it means the machine has been turned off successfully.

3.3. Button Functions

3.3.1. CUR/DIR

The CUR/DIR button is used to choose the currency or the banknote exit direction.

3.3.1.1. Choosing the Currency

In the detection mode, the IMC02 will recognize the currency type automatically, so pressing "CUR/DIR" button cannot choose the currencies manually.

In the report mode, press the button to choose the currencies to check the report detail.

3.3.1.2. Choosing the Direction

Keep pressing the button about 2 seconds until you hear the "di" sound, then release the button. The direction indicator will be changed.

The denotation of direction will be shown on the top part of the display. Up means the genuine banknote will go out from exit and down means the genuine banknote will retreat from the feeding hopper.

3.3.2. REP/CLR

Press the button to check the pieces of each denomination, keep pressing the button for about 2 seconds to clear the records.

After finish detecting banknotes, press "REP / CLR" to enter report mode. Display will show the currency type, pieces of each denomination and total value. You can switch to another currency by pressing "CUR / DIR". While checking the record, if you feed banknote, the detector will automatically exit the report mode.

3.4. Inserting the Banknote Correctly

As shown in the following pictures, please insert the banknotes in; the left side.

If a banknote was incorrectly inserted, the IMC02 may refuse it and alert.



Figure 3 - 3 Banknote Insertion

3.5. EUR/GBP Currency Detecting

As shown in the following figures, please remove the banknote feeding limit block to adjust the banknote with bigger size.



Figure 3 - 4 Banknote Insertion



Figure 3 - 5 EUR Banknote Detecting

4.0. Maintenance

4.1. Error Code

Code	Error Message	Handling Method (recommendation)
E01	Length exceeds	Please check whether the banknote is in good condition and place the banknote to the left again. If the alarm continues , length calibration is required.
E02	Length alarm	
E03	Half a banknote	Please check if the banknote is complete.
E06	Double banknote	Please put in only one banknote.
E07	Tilted banknote	Please put the banknotes to the left.
E10	Failed to refund	Please check if your banknotes are too old or too soft.
E11	Basic image error	This may be a counterfeit currency. Please check whether the banknotes are damaged, severely wrinkled, or dirty.
E40	U V	Please turn on the machine and clean the inside of the machine before checking banknotes. If the error continues, it means that the UV module has been damaged.

E41	U V image error	This may be a counterfeit currency. Please check whether the banknotes are damaged, severely wrinkled, or dirty.
E60	Non-magnetic	Please clean the inside of the machine. Please check whether there is magnetic interference around the machine. If the error continues, it means that the magnetic module is damaged.
E61	Magnetic pulse 1 alarm	
E62	Magnetic pulse 2 alarm	
E63	Magnetic pulse 3 alarm	
E64	Too much magnetism	
E65	Magnetic prefix	
E66	Image magnetism error	Please check if your banknotes are counterfeit.

4.2. Inaccurate Detection of Currency Detector

There are several conditions to affect the accuracy of the currency detector.

- 1) The bill size is out of the range according to IMC02 specification.
- 2) The banknote is damaged with different ways such as lack of corner, tape, hole, tear and folded. As shown in Figure 4-1, it is not recommended to count this kind of bills.



Figure 4 - 1 Bill Damaged Ways

- 3) Other abnormal operation or there is unknown thing inside the IMC02.If something inside the IMC02, you need to open the front cover to check, and clean the internal sensors.

5.0. Technical Parameters

Counterfeit Detection	MG (Magnetic), IR (Infrared), UV (Ultraviolet)
Error Detection	Image, paper quality, size, thickness detection
Available currencies	USD, EUR, GBP, LBP, AED, MXN
Display	LED display
Button	CUR / DIR, REP / CLR
Interface	USB, software upgrade interface
Detecting Speed	<0.5 seconds/piece
Power Consumption	<10W
Power Supply Battery	AC 100V-240V 50-60Hz or DC 12V/1.0A
	Rechargeable lithium battery 11.1V / 500 mAh
Operating Temperature	CE, FCC, ROHS
Operating Temperature	0°C - 40°C
Storage Temperature	-20°C - 65°C
Counterfeit Detection	MG (Magnetic), IR (Infrared), UV (Ultraviolet)
Error Detection	Image, paper quality, size, thickness detection
Available currencies	USD, EUR, GBP, LBP, AED, MXN

Table 2 Technical Parameters



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**If you meet any problem during using the IMC01,
please contact us.**