



Designed by Cassida Corporation, USA
Assembled in China

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USER MANUAL

Cassida Titanium Professional Mix Value Counter

This manual contains important information on safety measures and operational features. Please read it carefully before operating this unit, and keep it for future reference.

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1. INTRODUCTION

1.1 About the Cassida Titanium

Thank you for choosing the Cassida Titanium Mix Value Counter. We hope you enjoy using it.

The Cassida Titanium is a professional and reliable mix value counter uniting counterfeit detection with high performance.

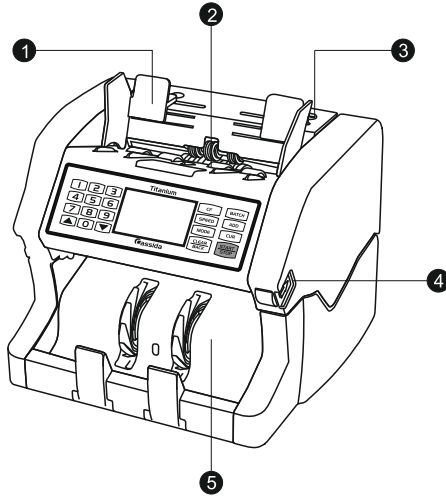
The Cassida Titanium has a convenient interface that makes it easy for users of various skill levels to become proficient. An ergonomic and intuitive control panel provides easy and quick access to all functions -- like counting settings, currency selection, etc. Operations can start immediately after selecting a currency. The Cassida Titanium counts and detects counterfeit currency simultaneously to save time and streamline cash processing.

1.2 Box contents

- Cassida Titanium mix value counter
- Power cord
- User manual
- External display (as option)
- Thermalprinter (as option)

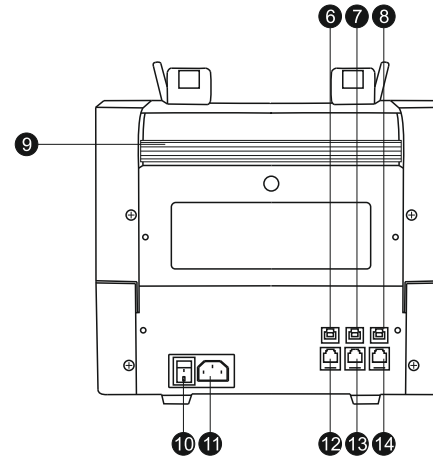
1.3 Front and rear views

Front view



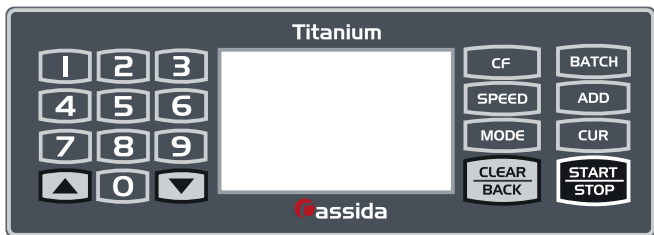
- 1 - Guide for counting bills
- 2 - Hopper
- 3 - Thickness adjustment screw
- 4 - Button to open cover
- 5 - Stacker











Rear view

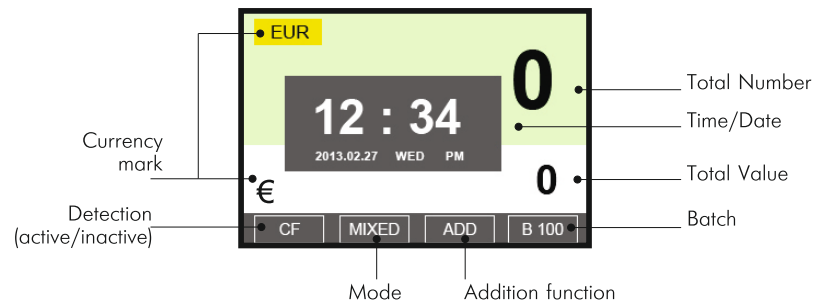


- 6 - Cable connection port (board CIS)
- 7 - Cable connection port (Main board)
- 8 - Cable connection port (LCD display board)
- 9 - Carrying handle
- 10 - Power switch
- 11 - Power plug
- 12 - Not in use
- 13 - Thermal printer connection port
- 14 - External display connection port

1.4 Control panel



-  - Counterfeit detection key
-  - Counting speed selection key
-  - Counting mode selection key: Count/Mixed/Sort
-  - Counted number and total value clear key
-  - Batch preset selection key
-  - Addition function key
-  - Currency selection key
-  - Start/stop operation key (clear)
-  - Detailed report/settings key/selection up
-  - Settings key/selection down



- **Currency mark:** Selected currency
- **Detection:** Active/Inactive
- **Mode:** Mixed/Count/Sort
- **Addition function:** Active/Inactive
- **Batch:** Selected batch number
- **Total Value:** Total value counted (max 9 digits)
- **Time/Date:** Current (selected) date and time
- **Total Number:** Amount of bills (max 3 digits)

1.5 Functions

- CF** The Counterfeit Detection activation key. When counterfeit bill is detected the display will inform user about the error. When CF is active, the counting speed is 900 bills/min by default.
- SPEED** Counting speed preset.
This option allows user to select the counting speed.
- Low: 900 bills/min Middle: 1,000 bills/min
High: 1,200 bills/min Fast: 1,400 bills/min
- User can select the counting speed only when CF detection function is OFF or COUNT mode is selected. If CF detection and/or Mixed mode/Sort mode is ON, SPEED key will not operate !**
- MODE** By pressing this key, user can select the counting mode: Mixed/Count/Sort
- CLEAR BACK** By pressing CLEAR/BACK key, user can clear the total number and total value after final counting operation. CLEAR/BACK key can also be used to select a previous step.
- BATCH** By pressing BATCH key, user can select a desired preset batch number: (0-10-25-50-100)
Specific batch number may be entered by using the key pad (EDIT option in the BATCH menu).
When the counted number reaches the selected batch number, the machine will stop automatically.
- ADD** By pressing ADD key, user activates addition function. The accumulated total of counted bills will be shown on the display when this option is active. By pressing CLEAR/BACK key user can clear the total result.

- CUR** By pressing CUR key, user can select desirable currency (EURO, USD, AED).
- START STOP** START/STOP key allows user to start an operation manually. (In order to operate the mix value counter manually, user has to enter the SETTINGS menu. For more information see p. 17/section 2.7). Also, START/STOP key allows user to enter random parameters.
- ▲** After counting processed currency, user can access the detailed report by pressing ▲ key. By pressing ▲ key, user can access SETTINGS menu (This key operates as navigation key UP).
- ▼** By pressing ▼ key, user can access SETTINGS menu (This key operates as navigation key DOWN).

1.6 Specification

Counting speed:	900/1000/1200/1400 bills/min
Hopper capacity:	500 bills
Stacker capacity:	300 bills
Banknote size range:	from 50x100 to 100x190mm
Batch size:	from 1 to 999
Display:	LCD 3.2" (TFT colored)
Detections:	3D, UV, MG, MT, FL, CIS IR
Power supply:	100-240V, 50~60 Hz
Power consumption:	≤ 30W (12W standby)
Size (WxDxH):	270x278x257mm
Weight:	7,3kg

1.7 Important safety notes

When using this unit, basic safety precautions should always be observed, including the following:

- Read this manual before operation
- The manual should be available to operator
- Do not use this unit in areas where it may be exposed to water or any other liquids
- Make certain the unit is installed on a flat surface. Do not operate the machine in areas with high temperature, humidity or smoke, as these conditions may prevent proper operation.
- This unit is designed for indoor use in a ventilated environment. Keep the machine away from direct sunlight or strong directional interior lighting and strong magnetic fields. These could interfere with the counterfeit detection sensors.
- During operation, do not touch the moving parts of the unit
- Avoid foreign objects, paper clips, and staples
- Avoid dropping the unit
- When finished be sure there are no bills in the hopper or transport system
- When not using the unit for an extended period of time, disconnect the power cord from the wall outlet
- Unplug the unit from the wall outlet before cleaning. Use a damp cloth or specifically designed maintenance accessories such as an air duster, soft bristle brush, or cleaning cards.
- To avoid the risk of electrical shock, do not disassemble this unit. Disassembly will expose you to dangerous voltages and other safety risks. Incorrect reassembly can cause electrical shock when the appliance is subsequently used.
- Clean the unit regularly
- Take the unit to a qualified technician when service or repair is required. Do not try to replace any parts yourself. Supplied spare parts are intended for use by qualified repair personnel only.

Remember the manufacturer is in no way responsible for damage to the unit or injury to the operator in the event of incorrect operation/care of the unit.

2. OPERATION

2.1 Loading bills

It is very important to place the bills into the hopper correctly, because recognition performance of the bills is highly affected by the arrangement of the bills. Bills should be placed in a neat stack prior to being placed into the hopper. Please avoid counting bills that are wet, excessively dirty, spoiled, folded, curled or with foreign material like clips, bands, etc.

It will damage and cause malfunction of the machine.

2.2 Counting

The machine will automatically start to count the bills in AUTO mode, when the hopper sensor detects a bill in the hopper.

In MANUAL mode, the machine will not count the bills automatically until the user presses START key manually. While counting, the machine will display the number of the bills on LCD display.

The Cassida Titanium will stop the operation under the conditions described below:

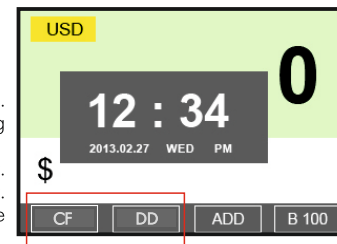
- No bills in the hopper
- The number of the bills counted is the same as the batch number set in BATCH mode.
- Errors have occurred.

2.3 Counting modes

• 2.3.1 Count mode XXX

Simple counting mode with or without UV and size detections.

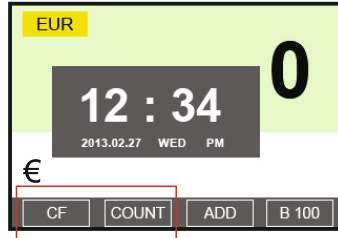
This mode can be used for various currencies. To start this mode, select XXX by pressing CURRENCY key. To switch on/off DD detection, press MODE key. To switch on/off UV detection, press CF key. This mode is used to count the total number of the bills for any currency.



• 2.3.2 Count mode (CF on)

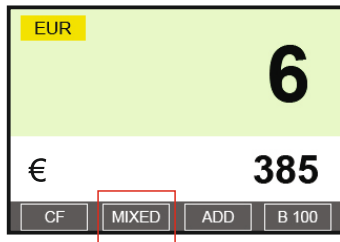
Simple counting mode with the CF (counterfeit) detection.

To start this mode, select COUNT mode by pressing MODE key, then select the currency (AED, EUR, USD), then check that the detections are switched on (CF key). This mode is used to count the total number of the bills of the selected currency and detect counterfeit bills.



• 2.3.3 Mixed mode

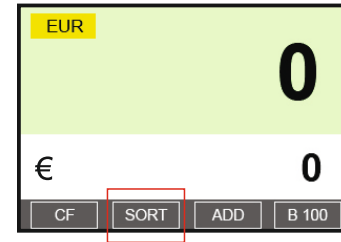
To start MIXED mode, select MIXED mode by pressing MODE key, then select the currency (AED, USD, EUR). This mode is used to count a stack of mixed denominations of a selected currency. Total number and total value will be displayed on the screen. When operation is complete, a user may press ▲ key and the detailed report will be displayed on a screen as a breakdown. By pressing CLEAR/BACK key, a user may return to previous screen.



Denom	Count	Count
5	1	5
10	1	10
20	1	20
50	1	50
100	1	100
200	1	200
Total	6	385

• 2.3.4 Sort mode

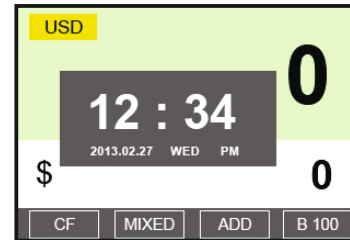
To start SORT mode, select SORT mode by pressing MODE key, then select the currency (AED, USD, EUR). This mode allows a user to count and sort bills by one denomination which is automatically determined by the first passing bill. The first bill in the hopper determines the counting denomination. If the denomination on the second, or other bills in the stack, differs from the first bill, the machine will stop the operation. Once the bill with the differing denomination is removed from the stacker the machine will resume the operation automatically.



2.4 Checking report

(version LCD 0.1.4)

The machine can save counted records (maximum 16,000 reports). If memory is full, the oldest record will be replaced by each new record.



Users can review previous counting operation history by entering SETTINGS mode (to press ▼ key) from the main screen. Select "My device information" by pressing START/STOP key, then select "Counted record".

Date	Count		
2013.1.23	12:45	11	Normal
2013.1.23	12:46	5	Normal
2013.1.23	12:48	1	Error
2013.1.23	13:12	25	Normal
2013.1.23	13:15	30	Normal
2013.1.23	13:32	7	Normal
2013.1.23	13:54	54	Normal

When desired report is selected, user can access the detailed report by pressing START/STOP key.

Denom	Count	Amount
100	5	500
Total	5	500

The menu key usage while checking the report.

- | | |
|-------------------------|-----------------------|
| ▲ Select previous case | ▼ Select next case |
| 1 1 page down | 4 1 page up |
| 2 10 pages down | 5 10 pages up |
| 3 100 pages down | 6 100 pages up |
| 0 Search by time | |

2.5 Addition mode

Addition function provides a cumulative count and can be activated by pressing ADD key. For example, if user wants to process up to 400 bills, the machine will count only 300 bills, which is the limit of the machine's stacker. The display will show the total of 300 bills counted. The rest of the bills can be processed once the user removes the first 300 bills from the stacker and the total amount will be added to the previous result. The result can be cleared by pressing the CLEAR/BACK key.

2.6 Batch mode

BATCH key is used to select the batch number for a specific counting process. In the batch counting mode, the machine counts a preset number of bills and then stops counting, even if bills remain in the hopper. User can edit the batch number by pressing the BATCH key and using the keypad to enter in the desired batch number.

2.7 User settings menu

To enter the setting menu press ▲ key. To select the setting function press ▲▼ or the corresponding numeric key. To save the selected settings, press START/STOP key. To exit from the settings menu press CLEAR/BACK key.

Display type for value

- Default
- Toggled
- Detail

• **Default:**

The total count & value (page) are displayed on the screen. To see the detailed result (page) press ▲▼

• **Toggled:**

The total count & value (page) and the detailed result (page) are alternately displayed on the screen.
(It's related to mixed, sort mode)

• **Detail:**

Detailed result (page) displayed on the screen 2 seconds after the counting end.
(It's related to mixed, sort mode)

<p>Counting Type</p> <ul style="list-style-type: none"> Counting Enable Counting Disable (default) 	<ul style="list-style-type: none"> Counting Enable: Once all bills are counted and deposited into the stacker, the machine emits a notifying beep. Another batch of bills can be put into the hopper. The counting process restarts and adds the new bills to already counted ones. Counting Disable: Once all bills are counted and deposited into the stacker, the machine emits a notifying beep. To count another batch, remove the counted bills from the stacker.
<p>External Device</p> <ul style="list-style-type: none"> External Display Printer Baudrate 	External display & printer baud-rate setting
<p>Counting Mode</p> <ul style="list-style-type: none"> Manual Automatic (default) 	Auto (default)/manual counting setting
<p>Time Set</p> <ul style="list-style-type: none"> Time Set Stacker Time Set (15/30 (default)/60 seconds) Time Display Disabled Enabled(default) 	<ul style="list-style-type: none"> Time Set: Time setting of real time : clock, calendar. To enter the digits use numeric buttons. To select the cell use ▲▼ keys. Stacker Time Set: Reminder about the bills left in the stacker: after 15/30(default)/60 seconds the unit emits a beep and displays the error message to notify the user that bills have not been removed from the stacker. Time Display: Disabled - the time set is not displayed on the screen Enabled - the time set is displayed on the screen

<p>My Device Information</p> <ul style="list-style-type: none"> Software Version Counted Record Display style 	<ul style="list-style-type: none"> Software version: Software version & Serial number Counted Record: Machine can save 16,000 records. For more information see p. 15 (2.4 Checking report) Display style: Background color setting: <table border="1"> <tr> <td>Main screen</td> <td>Detailization</td> </tr> <tr> <td>Green</td> <td>Grey/Blue</td> </tr> <tr> <td>Turquoise</td> <td>Grey/Beige</td> </tr> <tr> <td>Blue</td> <td>Blue/Brown</td> </tr> <tr> <td>Red</td> <td>Grey/Blue</td> </tr> </table>	Main screen	Detailization	Green	Grey/Blue	Turquoise	Grey/Beige	Blue	Blue/Brown	Red	Grey/Blue
Main screen	Detailization										
Green	Grey/Blue										
Turquoise	Grey/Beige										
Blue	Blue/Brown										
Red	Grey/Blue										
<p>Banknote Type</p> <ul style="list-style-type: none"> NEW(default) NEW + OLD 	<ul style="list-style-type: none"> New The unit counts only new bills. New + old The unit counts all bills, including old ones and dog-eared bills. 										

2.8 Error codes

Error message	Cause of error	Solution
ERROR TOO LONG NOTE	2 or more bills passed at the same time	Remove all bills from the counter and count again
JAM OCCURRED	Bills were jammed	
ERROR DOUBLE PASSED	Duplicated bill passed or passed bill was dirty, glued	
ERROR FEEDING ERROR	Bills jammed on IR sensor	Remove all bills from the counter, clean the sensor and count again

Error message	Cause of error	Solution
ERROR TOO SHORT NOTE	Passed bill was too short	Remove the bill and continue counting by pressing START key
ERROR HALF PASSED	Half bill detected or bill passed incorrectly	
ERROR SKEW (LEFT, RIGHT)	Bill passed with skewed left or right	
ERROR DIFF	Unrecognizable denomination bill passed	Check the suspicious bill. Remove the bill and continue counting by pressing START key
ERROR COPY PAPER	Suspicious FL level on the bill	
ERROR SUSPECT MG	Suspicious MG level on the bill	
ERROR SUSPECT IR	Suspicious IR ink on the bill	
INFO REMOVE ALL NOTES	Passed bill is in the stacker over 30 seconds	Remove all bills from the stacker

Please contact Cassida Technical Support if any unknown error has occurred.

3. MAINTENANCE, WARRANTY AND CONTACT INFO

3.1 Maintenance

This unit has many sophisticated sensors. To keep the machine running properly, it requires proper maintenance. If you notice performance has deteriorated, please clean all sensors prior to calling a service technician.



Unplug the machine completely from all electrical sources before attempting any cleaning process.

- We recommend you clean the sensors on a daily basis with a damp cloth or specifically designed maintenance accessories, such as an air duster, soft bristle brush or cleaning cards. When cleaning the sensors, please do not use any chemicals or a wet cloth.
- Complete maintenance service is recommended once every 3 months.

3.2 Warranty

Warranty is effective for a period of one year from the date of purchase. In most cases, the malfunction of the machine can be resolved by cleaning the unit.

- Customer should allow Cassida the time and opportunity to test and diagnose the machine to determine warranty and non-warranty claims.
- After receiving and unpacking the units, Customer shall keep the package and its user manual. Warranties are canceled in the event the device is transported in a non-original packaging or operation/maintenance conditions are not met.
- Company is not responsible for unit malfunction due to improper maintenance, storage and transportation including mechanical damage.
- Manufacturer is entitled to introduce updated software, not described in the current user manual.

Non-warranty service:

Cassida can perform maintenance and cleaning for an extra fee. For a non-warranty repair or maintenance quotation, contact Cassida Technical Support.

Warranty service is not available in the following cases:

- Cleaning of the unit from dust and mud
- Absence of a warranty card or an incorrectly filed warranty card
- Operation or maintenance rules requirements set in the user manual are not met
- There is mechanical damage to the unit or the seal portions of the unit have been opened or tampered with
- There are foreign objects or liquid inside of the unit.

Shipping:

The warranty does not cover shipping cost to or from Cassida's Technical Service Center. Before shipping the unit to the Cassida's Technical Service Center the warranty card must be filled out with model full name and number, serial number, cause for service, errors occurred.

3.3 Contact information

Technical Support contact information:

e-mail: fabin.johny@cassida.me

tel: 042 739 328

www.cassida.me, www.cassidausa.com

When contacting Cassida Technical Support, please have the following:

- Product model – Located on the back side of your currency counter
- Serial number – Located on the back side of your currency counter
- Nature of the problem – What happens, and when did it happen? Did the machine display an error message?
- Steps already taken to resolve the problem, and the results.

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