



JL206V

BANKNOTES COUNTING MACHINE

USER'S MANUAL



Thank you for using Julong's products.

The contents of the manual mainly are the operation instructions, operation precautions and the basic trouble shootings of JL206V sorting machine. Please read this user manual thoroughly and carefully before using the product to ensure the safe and proper operation to prevent any physical/material damage of the product.

Providing the user`s manual is lost or damaged please contact our After-sale service department for more information.

LIAONING JULONG FINANCIAL EQUIPMENT CORP.

- Transport's path design eases feeding notes, clearing jams and maintenance.
- Advance, patented and proprietary design and technology of the detectors ensure the accurate detection of authentication and fitness parameters.
- 4.3 inches TFT colorful LCD display, smart keypad and the extensive diagnostic functions, ease of operation, flexibility and user-friendly.
- With password protected mode it offers multi-operator's statistics, totals and data. It also supports printing, sending data to PC and complete compatibility with CMS.

- ECB certificate
- RoHS certificate
- An ISO9001: 2000 certified company
- CE certificate
- CCC certificate



Currency	RAND
Functions	Mix-count, single count, Face/Orient. Fitness, Deposit
Pockets capacity	Hopper capacity: 500 notes
	Output pocket: 200 notes; Reject pocket: 100 notes
	Number of pocket: 2
Speed	Counting: 1400 n/m
	Sorting: 1100 n/m
	Sorting: 750 n/m (serial number recognition)
Feed mode	Auto/Manual(operator selectable)
Power supply	AC198-252V ~50 Hz
Consumption	70W(working)/68W(stand by)
Dimension	320mm×350mm×340mm (W×D×H)
Net weight	13 Kg
Display	4.3" TFT Color LCD
Detection	UV, IR, MG.
Connectivity	USB, Lan, serial port

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Safety instruction

1. 1 Location and placement

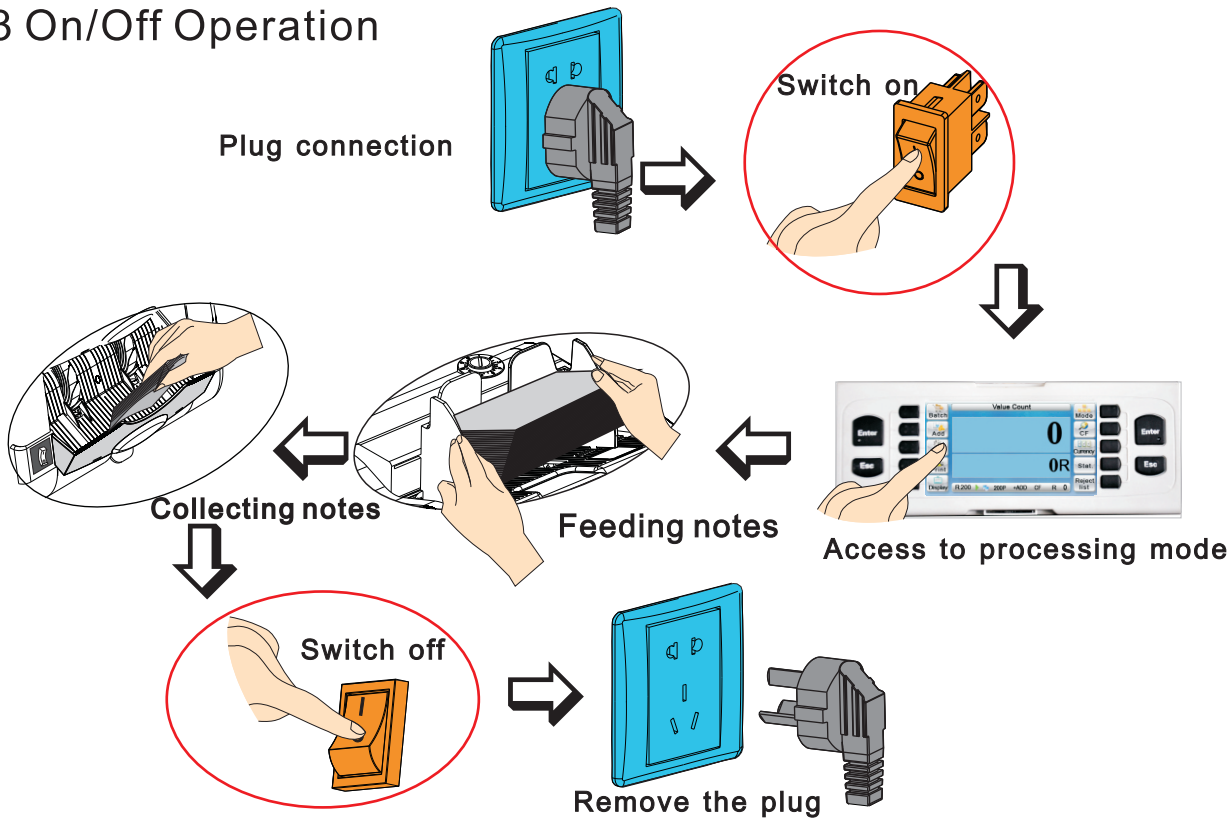
- Put the machine on the proper working table according to the dimensions and the weight of the machine.
- Put the machine in the place beyond dew, ice, heat, humidity, dust and sunlight.
- The proper working environment:
 - Temperature: 10°C–40°C
 - Humidity: 20%–85%
- The proper storage environment:
 - Temperature: 15°C–35°C
 - Humidity: 35%–80%

1. 2 Operation Precautions

- Ensure to work under the permitted voltage range
- Don't clear the jams when the machine is on
- Don't place the machine in the strong sunlight.
- Don't feed the banknotes with hard things (e.g. paper clip, staple) into the machine
- Don't take off the plug when the machine is not switched off as shown in the following:
- Don't press the keyboard when it is in the status of processing the notes.
- Don't touch the LCD with the hard things.



1. 3 On/Off Operation



1. 4 Banknotes placement

- Adjust the feeding guide according to the denomination
- Check the banknotes properly, remove foreign objects inside the banknotes if any
- Prepare the notes in good order
- Align the notes properly
- Remove the overlap sticking notes
- Place the well prepared notes in the middle of the hopper as below picture



Machine's structure

2.1 Front side

Feeding guide: Adjust feeding guide according to the denomination



Hopper: feeder



Operation panel:

Display data, set parameter, machine operation ect.



Open button: check traveling path



Reject pocket: accept the reject and suspect notes

Main pocket: accept ECB standard banknote

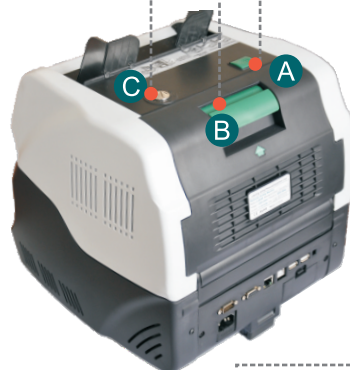


2. 2 Back side

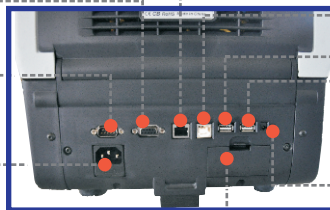
Detector section opening latch **B**
Lift the latch up to open the detector section.



Feeding section opening button **A**
Detector section opening latch **B**
Feeding gap adjustment button **C**
Clockwise to open, anti-clockwise to close
Feeding section opening button **A**
Press down the button to open the feeding section.

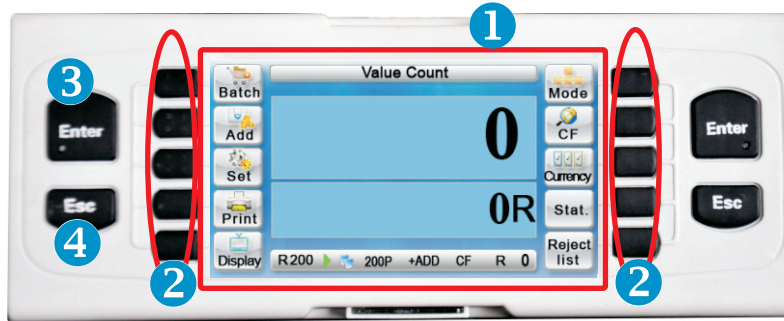


D-SUB (Female)
External display connection port
D-SUB (Male)
Printer connection port
Power socket
Connecting with power cord, fuse inbuilt.



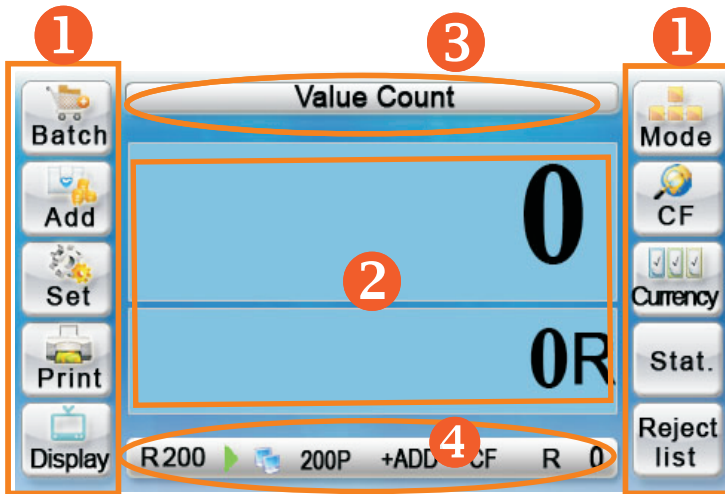
LAN
Data uptransfer port
S-Video
Main and image software download port
USB (USB2.0)
Reserved
USB (USB2.0)
Reserved
DC Input
Use for camera control
Dust Collector

2.3 Control panel



- 1 LCD display in full color(User could select operation options)
- 2 Functional key(prelinked with softkey on the display)
- 3 Enter key
- 4 Esc key

2. 4 Touch Screen

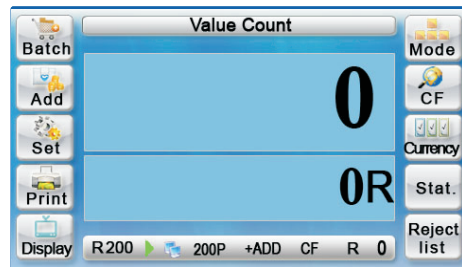
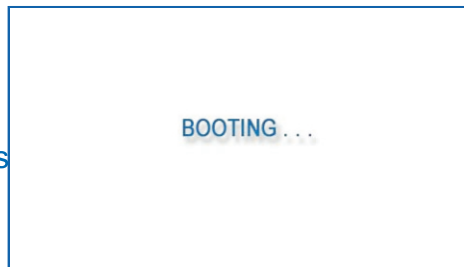


- 1 Function key zone
 - 2 Main display zone
 - 3 Processing mode display zone
 - 4 R200: Display denomination
 - : Low speed
 - : Middle speed
 - : High speed
 - : Net work connection
- 200P: Batch is 200
 +ADD: Active add function
 Edd: Active EDD function
 CF: Counterfeit detection
 R0: Number of reject

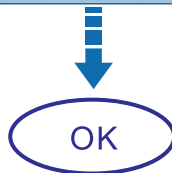
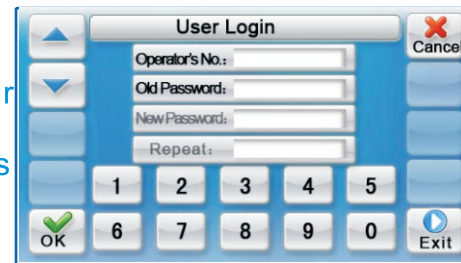
Operation instruction

3. 1 Power on

3. 1. 1 Normal access

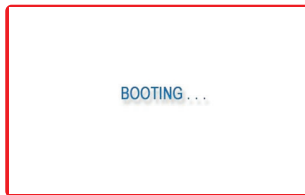


waiting for
5 seconds



Note: Machine's default is the non-protected mode. It needs 5 sec to access normal operation, and the access level is operator's.

3.1.2 Abnormal accessing procedure



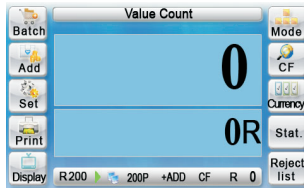
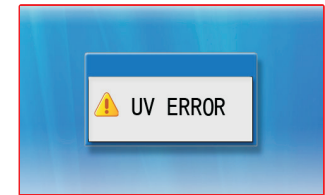
wait

 1 second



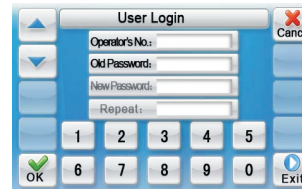
wait

 second



wait

 5 second



wait

 1 second



Note:

Operator can skip warning page and access to user log page.

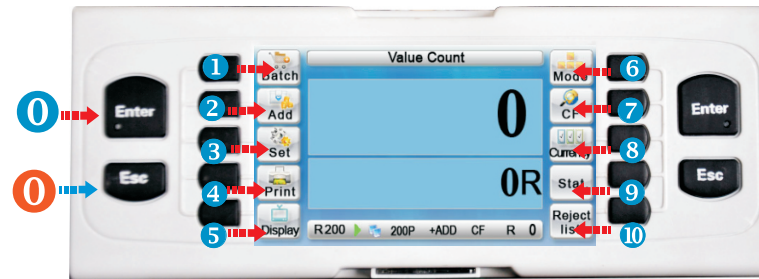


3.1.2 Abnormal accessing procedure



Note: The machine can indicate operator which sensor cause warning problem. Please clean it or call engineer.

3. 2Function Key



- 1 → Change batch setting for main pocket(MAX is 200)
 - 2 → Add function on/off control
 - 3 → Switch the machine to “Common parameter setup” or “Fit parameter setup” interface
 - 4 → Print function switch
 - 5 → Display the information of banknote. (Press again back to the original page)
 - 6 → Working mode selection
 - 7 → CF on/off control
 - 8 → Currency selection
 - 9 → Display the total amount and value of each denominations
 - 10 → Reject list
- 0 → Enter key
- 0 → ESC key

3. 3 Upgrade System

This machine is equipped with professional upgrade software. The administrator and engineers have access to upgrade the machine

Operationing:

- 1、 Connect to the PC

Connect machine and PC by using usb cable

- 2、 Steps:

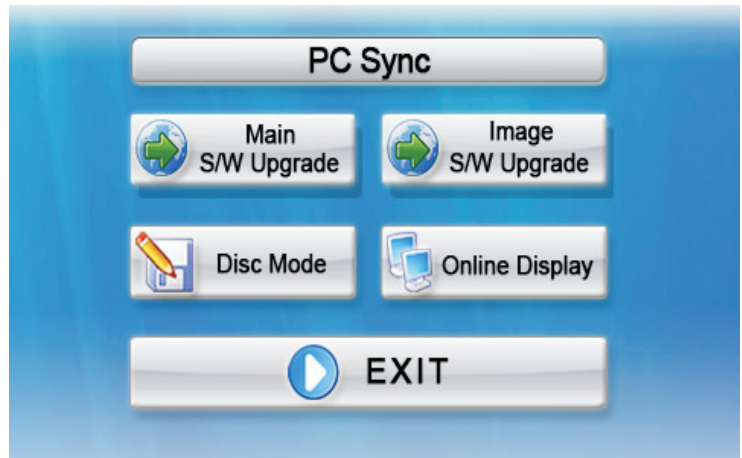
Power on  Login    Setup

    YES





- 3、 Open device manager of PC  Select USB controller

In this page, click icon of Scan for hardware changes

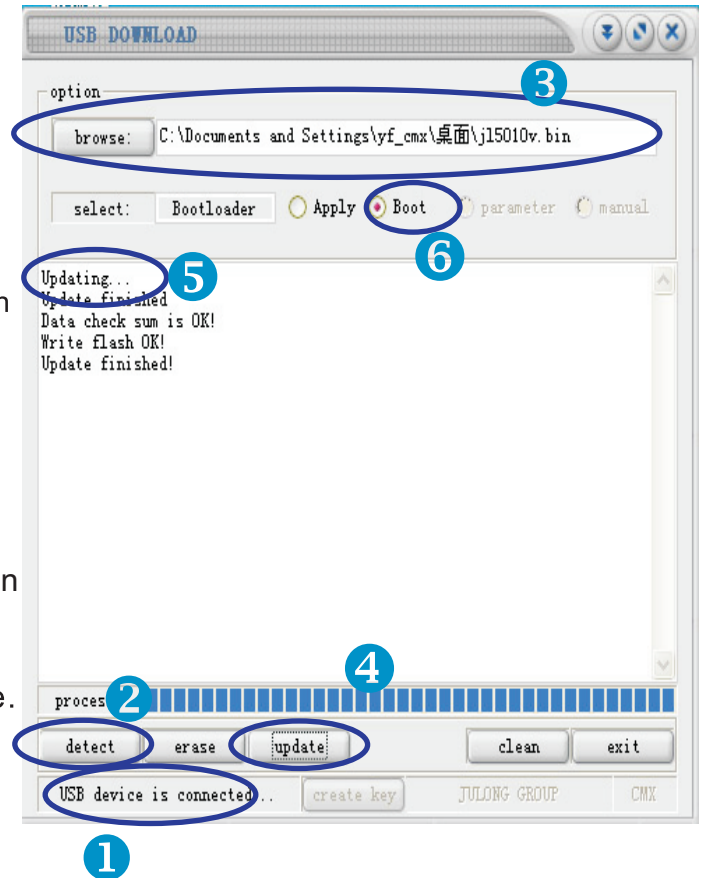
And then according to the installation suggestion to install the application



4、 Run the application in the PC, after installing it successful. The working page of the application as the picture.

- ①  Shows the connection status of usb device
- ②  Press this button to detect connection status of USB device
- ③  Choose target file of the root directory
- ④  This button use for upgrade main software

Waiting for the update is complete, the main software update successful.
The procedure of upgrade image software and upgrade the main software is the same.



A large rectangular area with a blue border and rounded corners, containing horizontal red dotted lines for writing.



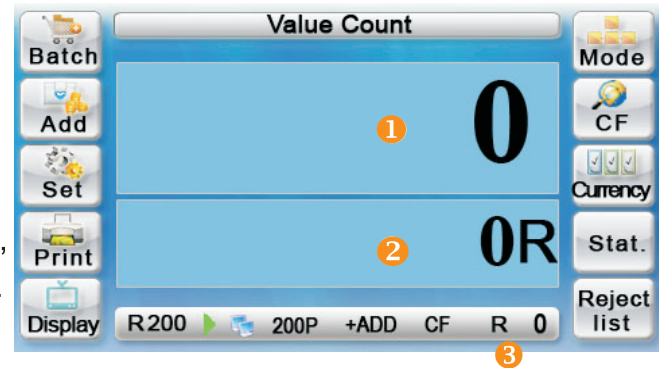
Functions

4. 1 Counting Function

4. 1. 1 Value Counting

Access: Default Page or  **Mode**  **Value Count**

This page enables a counting of mixed denominations without CF function. All proper banknotes will be determined to main pocket; Counterfeit, double, chain and skew banknotes will be rejected. Default batch setting of main pocket is 200.



- 1 Total amount in main pocket
- 2 Total value in main pocket
- 3 Total amount in reject pocket

Functions

4. 1. 2 Counting

Access:  → 

This page enables a quantity but no value counting of single or mixed denominations without CF function.

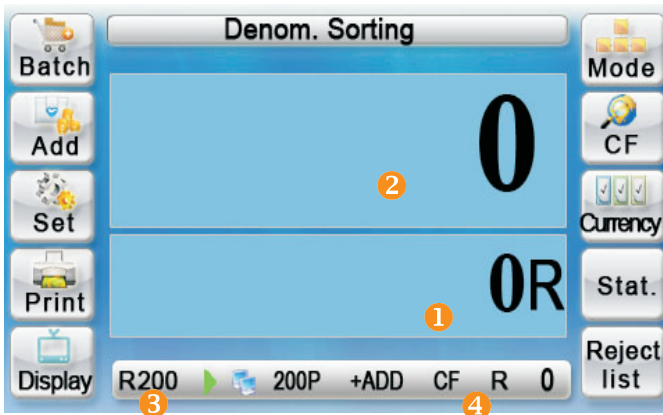
- ① Total amount in main pocket
- ② Total value in main pocket



4. 2 Denomination Sorting

4. 2. 1 Denom Sorting

Access :



This page is for sorting different denominations with amount and value counting. The first note to the main pocket determines the default denomination. Other denominations go to the reject pocket.

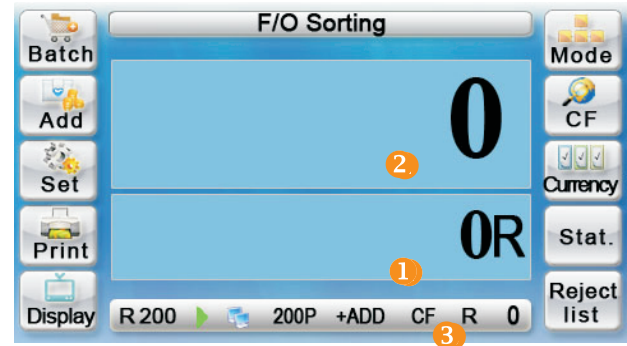
- ① Total value in main pocket
- ② Total amount in main pocket
- ③ Denomination in main pocket
- ④ Total amount in reject pocket

4. 2. 2 Face Sorting

Access :  → 

This page is for sorting same denomination banknotes by faces. Face up notes will go to main pocket, all other face notes go as reject.

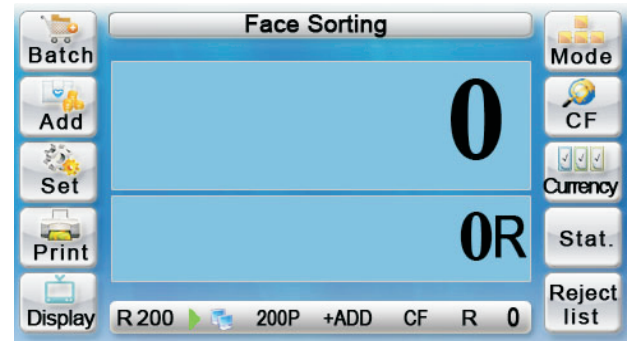
- ① Total value in main pocket
- ② Total quantity in main pocket
- ③ Total quantity in reject pocket



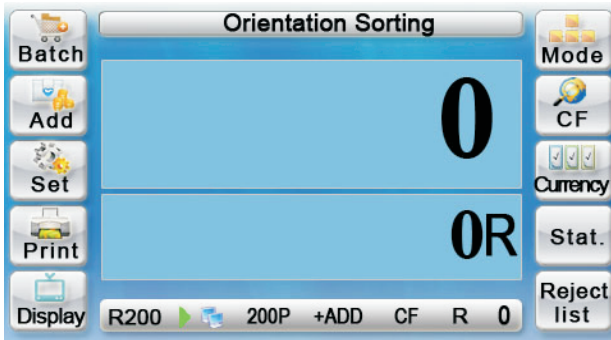
4. 2. 3 Orient Sorting

Access :  → 

This page is for sorting same denomination banknotes by orientations. Oriented notes will go to main pocket, non-oriented notes go as reject.



4. 2. 4 F/O Sorting



Access :  → 

This page is for sorting same denomination but different face and orientation banknotes, only face and oriented notes will go into main pocket; Other notes go as reject.

4. 3 Statistics

Value Count Report

Time: 13:50 03/01/12 Batch

Client: NO.: 1

Denom	Piece	Denom	Piece
R200	000000	R200	000000
R100	000000	R100	000000
R50	000000	R50	000000
R20	000000	R20	000000
R10	000000	R10	000000
Reject Value	0	Total	00000000



Buttons: Reject, Stat. Unit, Cancel, Denom., Disk Mode, Exit

Client:

000000

Access: All processing mode → 

This page is for checking the total amount and value of each denominations.

- 1 Batch: Press  key without the data reset to zero, Switch to current batch, and press  key. With the data being printed or transferred to the PC, the “NO” will add 1 automatically.



Value Count Report

Time: 13:50 03/01/12 Task

Client: NO.: 1

Denom	Piece	Denom	Piece
R200	000000	R200	000000
R100	000000	R100	000000
R50	000000	R50	000000
R20	000000	R20	000000
R10	000000	R10	000000
Reject Value	0	Total	00000000

Buttons: Reject, Stat. Unit, Cancel, Denom., Disk Mode, Exit

- 2 Task: Press  key without the data reset to zero Switch to current Task NO and press  key. With the data being printed or transferred to PC, the “NO” will add 1 automatically.

4. 5 Information List

Reject List			
NUMBER	REASON	NUMBER	REASON
1	NO IDEN.	11	
2	UNFIT	12	
3	UNFIT	13	
4	UNFIT	14	
5	UNFIT	15	
6		16	
7		17	
8		18	
9		19	
10		20	

Reject List

Access: All processing mode → 

This List shows a reject information for the current batch.

The 2 keys on the upper right corner are for page switching.


Note: The suspected banknotes in the reject can't be removed when you are checking the reject information.

Value Count			
DENOM	PIECE	VALUE	
R200	6	1200R	
R100	3	300R	
R50	0	0R	
R20	0	0R	
R10	0	0R	
R100	0	0R	
R50	0	0R	
R20	1	20R	
R10	0	0R	
TOTAL	10	1520R	

Batch Add Set Daily Display Mode CF Currency Stat. Reject list

Display R200 100P +ADD CF R 1

Deailed information list

Access: All processing mode → 

This page shows a information of total amount and the value of each denomination banknotes.

Return to processing modes by pressing 

4. 6Deposit function:



Press 'set' and 'client register key' to input client name Green as example



Press 'ok' key to input your deposit amount 1525.5 as example



Press 'ok' key to input coin amount 5.5 as example

Batch	DENOM	Value	Count	VALUE	Mode
	R200	6		1200R	
	R100	3		300R	
Add	R50	0		0R	
	R20	0		0R	
Set	R100	0		0R	
	R50	0		0R	
Daily	R20	1		20R	
	R10	0		0R	
Display	TOTAL	10		1520R	
	R200			100P+ADD CF R 2	

Press 'display' key to check the information of each denom.

Value Count		Mode
10		CF
1520R		Currency
Deposit:	1525.50R	Stat:
Balance:	0.00R	Reject list
play	R200	100P+ADD CF R 2

Feed your banknotes, The total amount is 1520 and Plus 5.5 coin, which is equal your deposit.

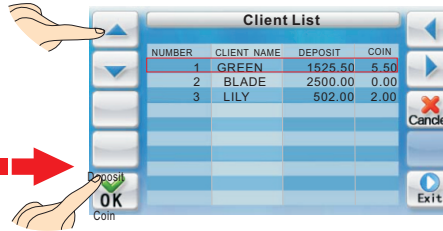
Value Count		Mode
0		CF
0R		Currency
Deposit:	1525.50R	Stat:
Balance:	-1520.00R	Reject list
Display	R200	100P+ADD CF R 2

Press 'ok' key to back to mix deposit mode

2. Check client information and modification:



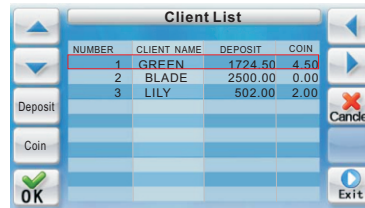
Press 'set', 'client register' and 'list' key



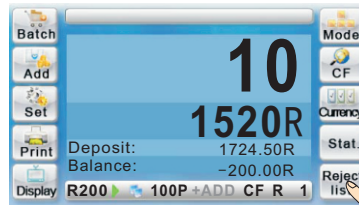
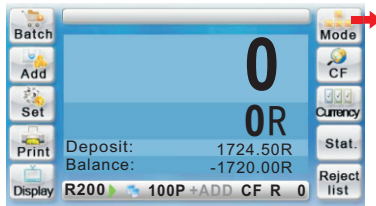
Operator can check data information for client name



if operator wants to modify deposit amount and press Ok key

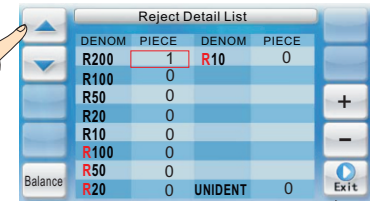
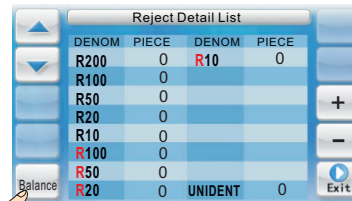
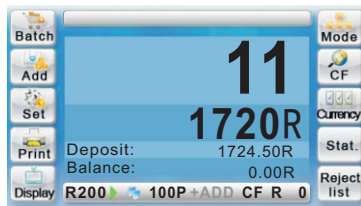


3. Reject amount modification:



After feeding banknotes, press reject list key if some notes go into reject pocket

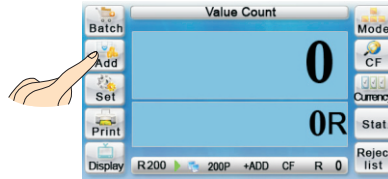
Operator can check the amount of reject notes



Press 'balance' to account reject amount into your counting result in order to make balance.

Press 'stat.' key to modify reject pieces to make balance.

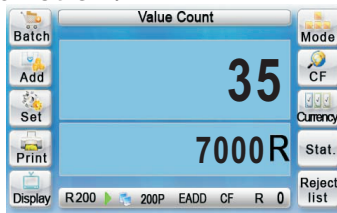
4.7 Add function



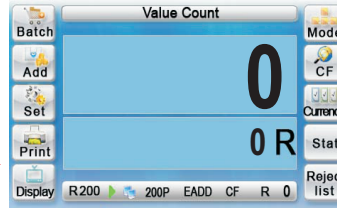
Add function: Accumulate all counted batch.

Edd: Calculate total value after finishing certain batches.

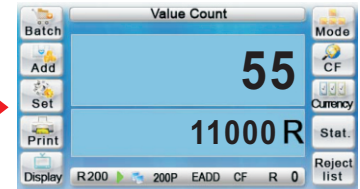
Edd function:



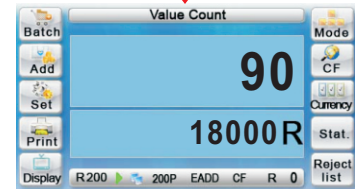
Press Add key to make screen of bottom area display 'edd'. Feed 35 pieces 200 denom. Total value is 7000.



Total value and amount will display 0 after taking out the notes



Feed another 55 pieces 200 denom. and take out.

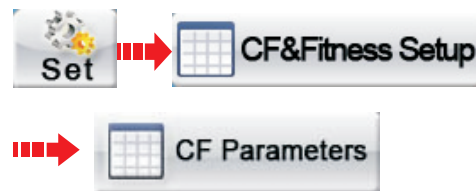
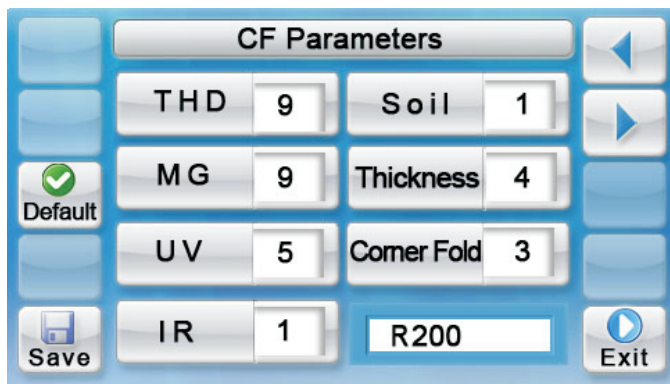




Here displays total value and amount from add of batch 1 and batch 2


Parameter Setting

5. 1 CF and Fitness parameters setting

5. 1. 1 Fitness parameters setting



The engineer can set up the CF parameters level for different denomination in this interface. Press   key to select the denomination and then press the relevant CF parameter key to adjust the level or switch on/off the parameters.

 The principle for setting parameters:
Higher the level, more sensitivity. please test the machine with real authentic note after adjusting the parameters.

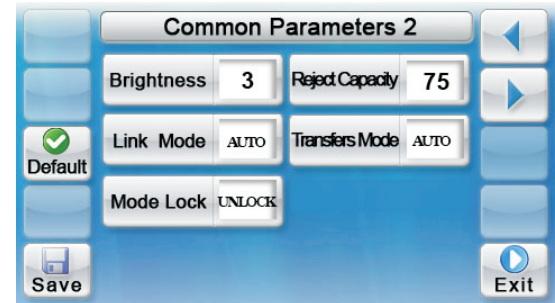
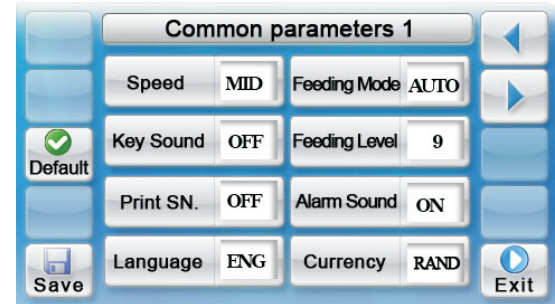
5.2 Operator parameter setting



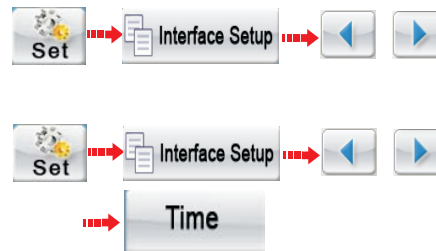
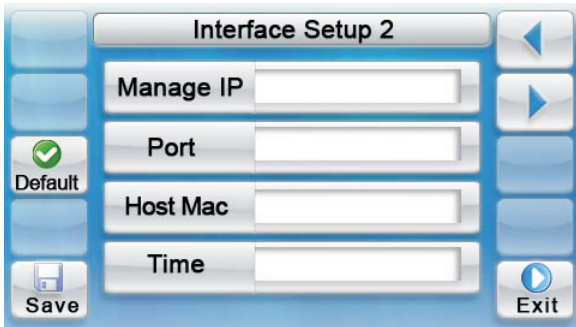
Operator parameter

- | | |
|------------------------|-----------------------------------|
| Speed: H/M/L | Key sound: ON/OFF |
| Print SN: ON/OFF | Language: China/English |
| Feeding mode: A/M | Feed level: 0-15 |
| Alarm sound: ON/OFF | Currency: RMB/EUR |
| Bright level: 0-4 | Link mode: A/M |
| Mode lock: Unlock/Lock | Reject capacity: 25/50/
75/100 |
| Transfer mode: A/M | |

The default setting are shown in the right pictures



5.3 Interface setup



The way to setup the system time:
Input the number one by one from left to right
and then press "save" key to save the setting.

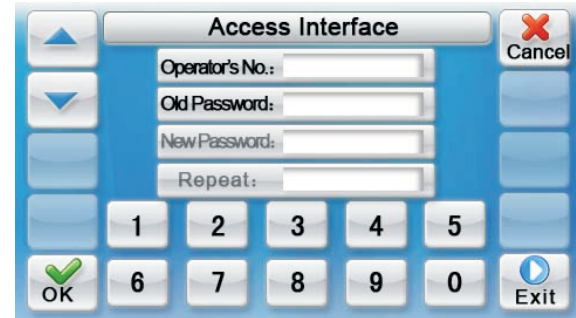
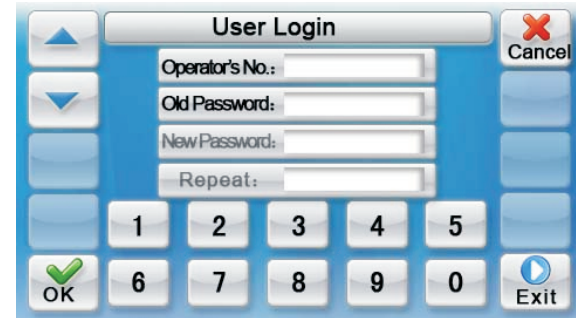
5.4 User login setting



The user can access the machine as engineer by inputting the operator's No.0; the supervisor by the operator's No. 1 and the operator by the operator's No.2-15.

The engineer can change all parameters.
 The supervisor can change the supervisor and operator's password.
 The operator only can change it's own password.

Note: 1. one sign No. accept one user No. and never to be used for another one. The password must be 6 digits number; 2. For this product after you switch on the machine five seconds and nothing to do, the machine will be turned into the interface by supervisor.



Parameter	Min value	Default value	Max value	Status
Fit level	0	32	63	ON
Corner-fold level	0	3	7	ON
Graffiti level	0	5	15	OFF
Hole level	0	10	15	ON
Unfit level	0	3	15	ON
Miss-corner level	0	10	15	ON
De-ink level	0	32	63	OFF
Mark level	0	5	15	OFF
THD level	0	9	15	ON
MG level	0	11	15	ON
UV level	0	5	7	ON
IR level	0	1	1	ON
Thick level	0	4	7	ON

Fitness parameter

CF parameter

Network Setting

JL206V can be connected with one single computer or many computers by setting up the IP address for the machine.

6.1 IP address setting

- 6.1.1 Management MAC
- 6.1.2 IP address
- 6.1.3 subnet mask
- 6.1.4 Default gateway

6.2 Network connection setting



Click the relevant parameter under interface setup page to set up accordingly.

6. 3 IP address operation


Switch on the PC → network neighbour → Attribute → Native connect → Supply → Detail information

The information as the right picture

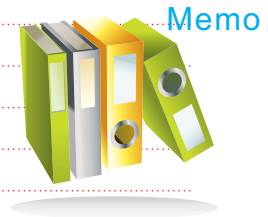
Setting:

属性	数值
实际地址	00-E0-4D-80-5A-BA
IP 地址	172.16.1.114
子网掩码	255.255.255.0
默认网关	172.16.1.1
DNS 服务器	172.16.8.20 172.6.8.10

The really address is corresponding to the management MAC address and the DNS server is corresponding to the local management address. Other items are the same. After inputting the address to the corresponding item press “save” to finish the setting.

 Note: The above setting is modified on the host computer software, after modification please “write” to confirm.

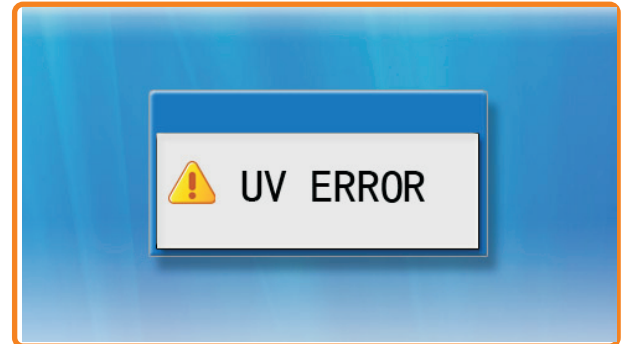
A large rectangular area with a blue border and rounded corners, containing horizontal red dotted lines for writing.



Maintenance and trouble shooting

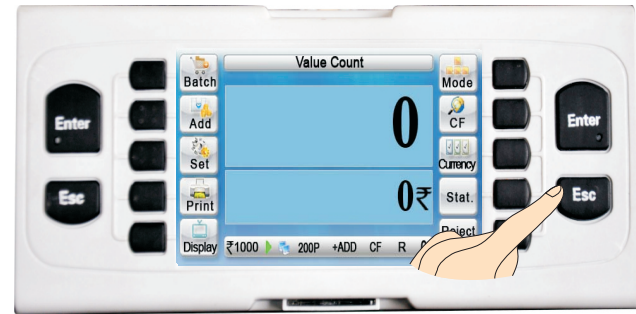
7. 1 Common problems solution

- If the display shows as the picture indicates it means the self test is failed. Please find the solution in the following part or contact with the technical engineer.
- If one part doesn't pass the self test it indicates that there is some dust in that part. The solution is to remove the notes and clean the dust. If the problem is not solved yet please contact with the technical engineer.
- For the above problem you could access the machine by th engineer or the supervisor to check them in the trouble diagnosis interface. And report the troubles to the technical engineer for analysis and finding the solutions.

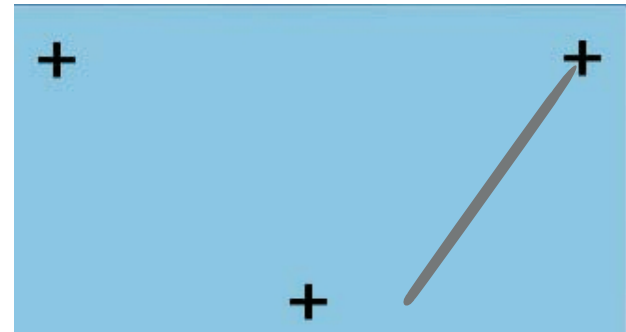


7. 2 Touch screen rectification

Due to the improper operation the touch screen can't be used. We need to rectify the touch screen as follows:

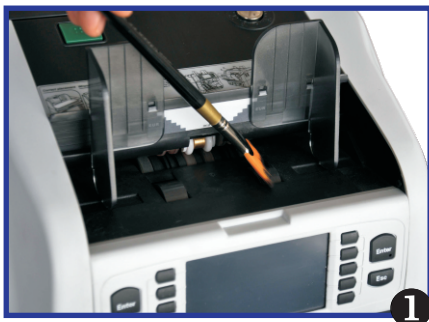


Method: According to touch point on the screen, touch the point in the sequence of “up” “down” “left” “right” (with the touch pen of the mobile phone pen or the similar tool). Finishing each point’s rectification.



7.3 Maintenance for the parts

7.3.1 Pictures for maintenance



7. 3. 2 Table of common maintenance

NO.	Checking points and maintain method	Power	Tools	Remark
1	Sensor cleaning: If the sensor is less sensitivity, please clean the surface of sensor by using alcohol and swsb.	ON	Alcohol and lint-free cloth	weekly
2	CIS cleaning: Clean the CIS sensor throughly by brush or cloth with alcohol.	OFF	Alcohol and lint-free cloth	weekly
3	Detector cleaning: Clean the detectors throughly by brush or cloth with alcohol.	OFF	Alcohol and lint-free cloth	
4	Thickness detector cleaning: Clean the both rollers throughly by brush or cloth with alcohol.	OFF	Alcohol and lint-free cloth	
5	Travel path cleaning: Clean full travel path throughly by brush or cloth with alcohol. Clean the dust tray with vacuum machine or air blower.	OFF	Alcohol and lint-free cloth	
6	Clean the cover throughly	OFF	Alcohol and lint-free cloth	
7	Movement verification Use fifty notes of each denomination to check the feeding performance, adjust the feeding gap in case there are any feeding problem.	ON	Banknotes	
8	Belt checking Replace the belt if any heavy wear and worn.	ON	Manually	

7. 3. 3 Warranty policy of Julong products

- Please contact local authorised engineers for help, if any breakage or malfunction occurred. Our engineer will provide you online support or on field service if required.
- All JULONG products come with 12 months guarantee, since the date of shipping
- The finite warranty does not cover any JULONG products that purchased from third party not authorized by JULONG. Neither covers JULONG products damaged or defective by:
 - A. Damages caused by disregarding instruction and/or user menus.
 - B. Damages caused by transporting the machine without the provided packaging and protecting material, or disregarding the transport inscriptions on the package.
 - C. Damages caused any un-authorized service outlet on attempting to disassemble or repair of unit.
 - D. Damages caused by fire, lightning strikes, natural disasters, e.t.c.
 - E. Damages caused by connecting or using other un-authorized accessories.



Notice:

This user's manual is continually improved, we reserve the right to modify the same at any time without notice.

A large rectangular area with a blue border and horizontal red dotted lines, intended for writing notes or a memo.





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