

Compact Cash Recycling System CCS-30 Technical Manual





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1 Overview

The compact cash recycling system CCS-30 can realize the functions of banknote and coin recognition, counting, depositing, and circulating change. It has high reliability, ease of use and maintainability. It realizes self-circulation through the change of banknotes and coins, reducing the time spent on replenishment, counting, and replacement of cash boxes, reducing the time for daily maintenance, reducing dormant cash in automatic equipment, cash exposure risks, statistical cost losses, reducing downtime for checkout, cash transportation, etc., and improving overall operational efficiency.

Main application scenarios: automatic fee collection and change equipment in retail systems, automatic ticket vending machines in public transportation, and automatic equipment that requires cash circulation and change functions, etc.

2 Model

Compact Cash Recycling System CCS-30

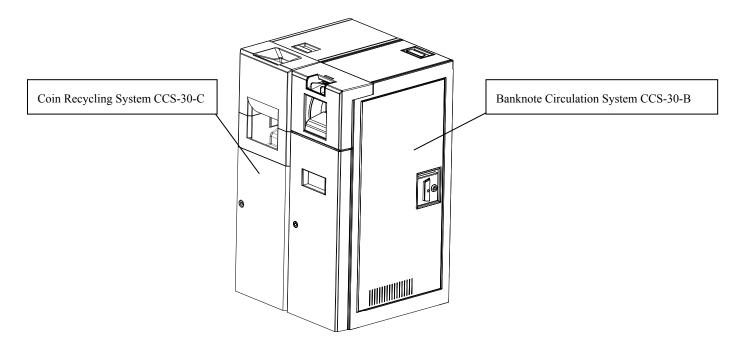
- --Banknote Circulation System CCS-30-B
- --Coin Recycling System CCS-30-C

3 Size

3.1 System composition

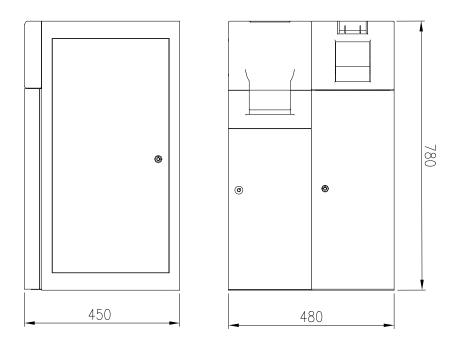
The Compact Cash Recycling System CCS-30 consists of the Banknote Recycling System CCS-30-B and the Coin Recycling System CCS-30-C.





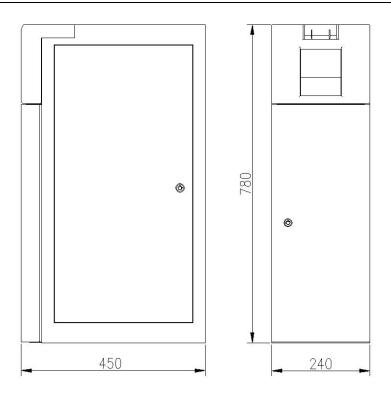
3.2 Dimensions

CCS-30 Compact Cash Recycling System Dimensions: W480 x D450 x H780 (Unit: mm)

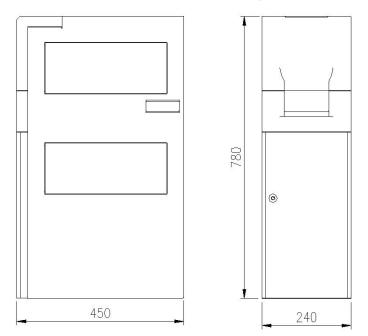


CCS-30-B banknote circulation system dimensions: width $240 \times \text{depth } 450 \times \text{height } 780$ (unit: mm)





CCS-30-C coin circulation system dimensions: width 240 × depth 450 × height 780 (unit: mm)



4 Features

Banknotes:

Based on experienced banknote recognition and counterfeit detection technology,
 multi-spectral full-width image scanning (CIS technology) and full-width magnetic signal



detection, high-security banknote recognition;

- The banknote receiving and correcting device ensures the smooth operation of banknotes;
- High-speed banknote processing speed, receiving speed 3 pieces/second, change speed 3 pieces/second;
- Supports 30-bundle banknote input and 30-bundle banknote change;
- Large circulation capacity, supports up to 4 different denominations, each denomination has a circulation capacity of 100 pieces, and can flexibly configure the change denomination;
- Intelligent banknote sorting, banknotes that are not suitable for circulating change are directly
 deposited into the cash box to reduce the rate of banknote jams;

Coins:

- Based on the experienced coin recognition and counterfeit detection technology, multi-frequency and multi-coil comprehensive detection methods are adopted to identify and detect coins in multiple dimensions such as coin material, diameter, thickness, etc.;
- High-speed coin processing speed, receiving speed 5 coins/second, coin output speed 5 coins/second;
- Supports a one-time investment of 50 coins and a coin output of 50 coins;
- Large circulation capacity, supporting up to 8 coins of different denominations, with a circulation capacity of up to 400 coins of a single denomination (based on the RMB 50 cents specification);
- It has the function of foreign body discharge, which can automatically discharge foreign body after each transaction;
- With forgotten coins recycling function, the coins forgotten by customers can be automatically recycled to avoid cash loss;
- Automatic coin clearing function: after the circulating hopper is full, the coins are automatically cleared into the recycling box;

5 Technical parameters

5.1 Banknote Performance Parameters

	Item	Performance Specifications
Cashin	Cash input capacity	30 sheets
Cash in	Cash input method	Whole stack, vertical banknote feeding, no restriction on direction
Identify	Currency	Support 100 different denominations of banknotes (one or more



		countries) at the same time
	Material	Paper, plastic-based (polymer)
	Real banknote	≥99%
	acceptance rate	29970
	Counterfeit currency	≥99.9%
	recognition rate	=59.970
	Banknote size	Length range: 120~180 mm; Width range: 60~85 mm
Detection	Optical	Full-frame image sensor (CIS technology), no less than 100,000 measurement points per banknote
Methods	Magnetic	Full-width magnetic sensor detection
C	Receiving speed	3 sheets/second
Speed	Change speed	3 sheets/second
	Temporary Storage	100 sheets (using one of the recycling boxes)
	Number of circulation boxes	4 pcs
	Circulation box	The capacity of a single circulation box is 100 sheets (4 circulation
capacity	capacity	boxes have a total of 400 sheets)
	Deposit box capacity	700 sheets
	Cash replenishment	
	box capacity (optional)	500 sheets
	Cash outlet capacity	30 sheets
Cash out	Cash withdrawal	
	method	Whole stack
	Cash outlet protection	With cash outlet baffle
Upgrade	Upgrade method	With online download and upgrade function

5.2 Coin performance parameters

	Item	Performance Specifications
Coin amanatad	Coin-operated mode	Multiple pieces at one time
Coin-operated	Coin slot capacity	50 pieces (any denomination)
Identify	Currency	Supports 250 coins of different denominations (one or more
		countries) at the same time



	Material	Metal material
	Real currency	
	acceptance rate	≥99%
Detection	Electromagnetic	Multi-coil and multi-frequency detection of the coin surface and core
Methods	testing	material, as well as the coin size, etc.
	Receiving speed	5 pieces/second
	Change speed	5 pieces/second
	Number of cyclic	9
Speed	hoppers	8 pieces
	Cycle Hopper	The capacity of a single HOPPER is 400 pieces (calculated at RMB
_	Capacity	50 cents)
	Coin Box	3000 pieces (calculated based on RMB 50 cents)
Foreign		
body	Coin slot	Supports foreign body removal
removal		
Cash out	Coin outlet capacity	50 pieces
	Forgotten Recycling	With coin outlet recovery function
Upgrade	Upgrade method	With online download and upgrade function

5.3 Environment

Environment	Operating temperature	0°C ~ 50°C
	Storage temperature	-20°C ~ 60°C
	Humidity	20%RH ~ 90%RH (Non-condensing)

5.4 Electrical technical parameters

Iter	n	Specifications
Electrical	Power supply	AC110V-240V
Interface	Rated frequency	50-60Hz
Communication	Communication	RS232



interface	Protocol	
	Baud rate	19200 bps
	Inspection method	No verification
	Communication parameters	Data bit: 8 bits Start bit: 1 bit Stop bit: 1 bit
Electromagnetic compatibility	Comply with relevant national standards GB/T 17626	