

The latest 5th generation high-performance ballot sorter, a product that maximizes both vote counting/sorting stability and reliability



# HVX-4500

## High Speed Ballot Reader & Sorter

The latest HVX-4500 Series Ballot Counting & Sorting System is an all-in-one unit, integrating main unit, sorting pockets, operating device(laptop) and printer. This consolidated structure provides efficient space utilization and enhances operational convenience.

The operating mechanism is engineered with an independent structure between main part and the stacker part using powerful BLDC motors. This design enables independent control and operation of the main and stacker sections, which maximizes equipment stability and operational efficiency. The classification boasts a high-speed performance of 350 ballots per minute, based on the standard 6-candidates ballot size (100×205mm). The system is equipped with a total of 12 pockets for ballot sorting, along with a separate pocket for re-processing ballots. For paper feeding, it supports continuous loading using dual hoppers, with each hopper accommodating 400 ballots for a maximum capacity of 800 ballots.

During paper transport, the automatic hopper switching system is applied to ensure uninterrupted continuous operation. Furthermore, the system is equipped with an optical & ultrasonic double-feed detection function to minimize paper feeding errors and enhance accuracy. For ease of use, an emergency stop button is built into the unit, allowing for immediate control at any point during operation.

Notably, the system incorporates CCRW technology, a patented innovation developed by Hantle, to guarantee stable and efficient operation.



### ✓ Features

- 1 Latest 5th generation high performance ballot sorter
- 2 Maximized ballot counting and sorting with stability and reliability
- 3 Max 350 ballots/m sorting speed
- 4 Max 800 ballots in 2 hoppers
- 5 12 sorting pockets and 1 escape pocket
- 6 Double/Skew feed detection
- 7 Patented CCRW technology
- 8 Controller(PC), printer and sorter all in one model

<http://www.hantle.co.kr>

### Ballot Sorter

Configuration	Sorter, Controller, Printer All-In-One System
Speed	350 Ballot/min(100*205mm)
Interface	USB 2.0 / USB 3.0 (for Backup)
Image sensor	CIS(Front) / 100dpi 24bit color
Scan area	Min 100 X 155~470mm
Double Feed Detection	Optical & Ultrasonic multi sensors detection
Ballot Hopper	2 Hoppers / Auto Select (400 Ballet per Hopper, max800)
Pocket	12(max 100 Ballot per pocket) + 1(Escape pocket)

### Controller

Controller	15.6 inch Touch screen
CPU	Intel i5
Storage	256GB SSD
Wifi / Bluetooth	N/A (Physically erased)
OS / SW	Windows11 64bit + OCR engine

### Printer

Printer Type	Inkjet
Printing Paper	A4 (normal copy paper)

### Storage Bag

Physical	Reinforced PP
Mobility	4 Moving Wheels (max 200Kg)
Convenience	Built-in Carrying Handle

### Physical

Dimension	880 X 580 X 270mm(Ballot Sorter)
Weight	Approx 44Kg(Ballot Sorter) Approx 15Kg(Stroage bag)