



Garment Sorting Smart Receivers

The ZL-BR10 is a garment sorting smart receivers independently designed and developed by ZHILAI MED. It is mainly used in hospital wards and departments to enable staff to self-service return linens, aiming to improve linen management efficiency and provide more convenient services for staff.

Key Features of Garment Sorting Smart Receivers

- 01 Motorized drop inlet: The inlet is a motorized door that opens and closes automatically, providing a better user experience when depositing soiled linens.
- 02 Multiple modes: Supports card-swipe deposit mode and hand-wave deposit mode; modes can be switched according to actual management needs.
- 03 Full-cabinet inventory counting: Built-in RFID reader and antennas enable full-cabinet inventory counting, accurately identifying the type and quantity of deposited items, replacing manual counting and greatly improving linen management efficiency and informatization.

Specification of Garment Sorting Smart Receivers

Item	Specification
Model	ZL-BR10
Dimensions (W×D×H)	100 × 818 × 1955 mm
Capacity	Duvet covers: 12 pcs; Bedsheets: 12 pcs; Pillowcases: 12 pcs; Patient gowns: 12 pcs; Patient pants: 12 pcs
Touchscreen	7-inch
Card Reader	IC/RFID 2-in-1 card reader
Drop Door	Motorized door, automatic open/close, with anti-pinch function
Transport Door	Electromagnetic lock; easy to open/close; door open/close status detection
Trolley	Built-in small trolley and collection bag; supports whole-bag packing and transfer
Operating System	Android 7.1.2
Processor	Rk3288
Communication	Wired, Wi-Fi, 4G
Enclosure Material	Sheet-metal structure with electrophoretic coating; excellent anti-aging, salt-spray resistance, anti-mildew and antibacterial performance; better adapts to complex temperature/humidity and acid/alkali environments
RFID Read/Write Performance	
Item	Specification
RFID	Built-in RFID reader and antennas, enabling full-cabinet inventory counting
Frequency Range	902–928 MHZ
Gain	–15 dBi
Read Rate	≥ 40 tags/second
Antenna Polarization	Circular polarization
Impedance	50 Ω
Operating Environment	
Item	Specification
Operating Temperature	0°C to +40°C
Storage Temperature	–20°C to +60°C
Operating Humidity	< 95% (+25°C)
Function	
Identity Authentication	Supports facial recognition, IC card, code scanning, and account/password authentication.
Deposit	Card-swipe deposit mode: After the user swipes the staff card, the drop door opens automatically. The user deposits soiled linens into the cabinet. After the door closes, the machine automatically performs inventory counting and identifies the type and quantity of linens deposited by the user. Hand-wave deposit mode: When a hand-reaching deposit action is detected, the drop door opens automatically. The user deposits soiled linens into the cabinet. After the door closes, the machine automatically performs inventory counting and identifies the type and quantity of linens deposited by the user.
Collection/Transport	After staff complete identity authentication, the transport door opens automatically. Staff pack and transfer the linens. After the door closes, the cabinet automatically reports the operator, transport time, and the type and quantity of linens transported.

Application Scenarios of Garment Sorting Smart Receivers



Automated Dispensing



Smart Receiving



Smart Storage



Medical Consumables Distribution

Successful Cases of Garment Sorting Smart Receivers



Eastern Air Force Hospital



Anhui Medical University
First Affiliated Hospital