



## 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