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DIGITAL CULTURE COMPREHENSIVE SERVICE PROVIDER

SMART LIBRARY BROCHURE

SHANGHAI RFID INTELLIGENCE DIGITAL TECHNOLOGY CORPORATION LIMITED

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Shanghai RFID Intelligence Digital Technology Co., Ltd. is a leading enterprise in the digital cultural industry and a leading enterprise in smart library industry. Shanghai RFID is committed to providing comprehensive service solutions in the digital cultural industry, and has achieved remarkable results in cultural centers, museums, art galleries, science museums, and other fields. Shanghai RFID has successfully developed intelligent High Bay Warehouse System, intelligent robots and other smart library series products, and has formed a full chain business portfolio covering A-LSP, intelligent terminal systems, digital resource service systems, and library operation services. It has provided professional intelligent system solutions to more than 5000 customers nationwide in China.

Shanghai RFID is driven by technology and guided by research and development. We deeply integrates cutting-edge digital technologies such as the Internet of Things, big data, cloud computing, artificial intelligence, and block-chain, always adhering to the concept of customer first, continuously mastering core technologies, adhering to an international perspective, and providing full process operation and maintenance support. Shanghai RFID is a "high-tech enterprise" and a "specialized, refined, and innovative" enterprise recognized by the Shanghai Municipal Government.

Honors & Qualifications

○ Independent intellectual property rights for a full range of RFID library products









(ISO24001) Certification



FCC Certification



(ISO27001) Certification



(ISO9001) Certification

- Invention patent 16
- © Utility model 61
- O Appearance design 73
- © Copyright 217

Brand Philosophy



Customize

We are customer oriented. Through in-depth research, service schemes are customized according to customer needs.



Leading

We have a leading market share in the whole industry for many years.



Guiding

We take intelligent digital technology as the core, independently develop and continuously innovate to ensure the stable and efficient operation of products.



Efficient

We have a localized operation and maintenance service team to respond to customer needs at the first time.



RFID

Drive-thru book return



Intelligent multimedia experience area

Massive customized resources slowly fall from the top of the screen, flowing out dynamically like a waterfall, giving people a strong visual shock. The digita resource service system is applied to new intelligent terminal devices, which can scan codes and play online, and can also be read through download clients suitable for different scenarios and different groups of people. Shanghai RFID Yuedu APP provides lightweight reading application services. The large screen full range platform, immersive VR Cube, ecological interactive experience, et integrate multiple interactive methods, enrich application scenarios library space reconstruction, and bring immersive interactive expe readers.









Combining Idiom Learning with VR Integrating education with entertainment Inspire children's interest in learning

Immersive VR CUBE

Waterfall flow

Head mounted device content synchronization sharing display Super realistic 3D picture quality Stereo sound effects

Customize distinctive cultural elements Information exhibition, video and graphic display Scan code for online play Download the client to read

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Shanghai RFID Yuedu APP

Lightweight reading and listening application services Digital Resource Services

Personalized reading experience

Immersive interactive projection Audio and video all-in-one machine

Highly immersive virtual demonstration environment Roaming freely in a 'real' virtual environment

Party-building all-in-one machine

Earphone forest

Ecological interactive experience cabin

Books all-in-one machine

VR headset electronic screen and leisure cabin integrated Immersive virtual reality interactive experience

Proactive welcoming Intelligent inquiry Intelligent navigation Indoor guidance

VR riding

Self check Intelligent reservation delivery

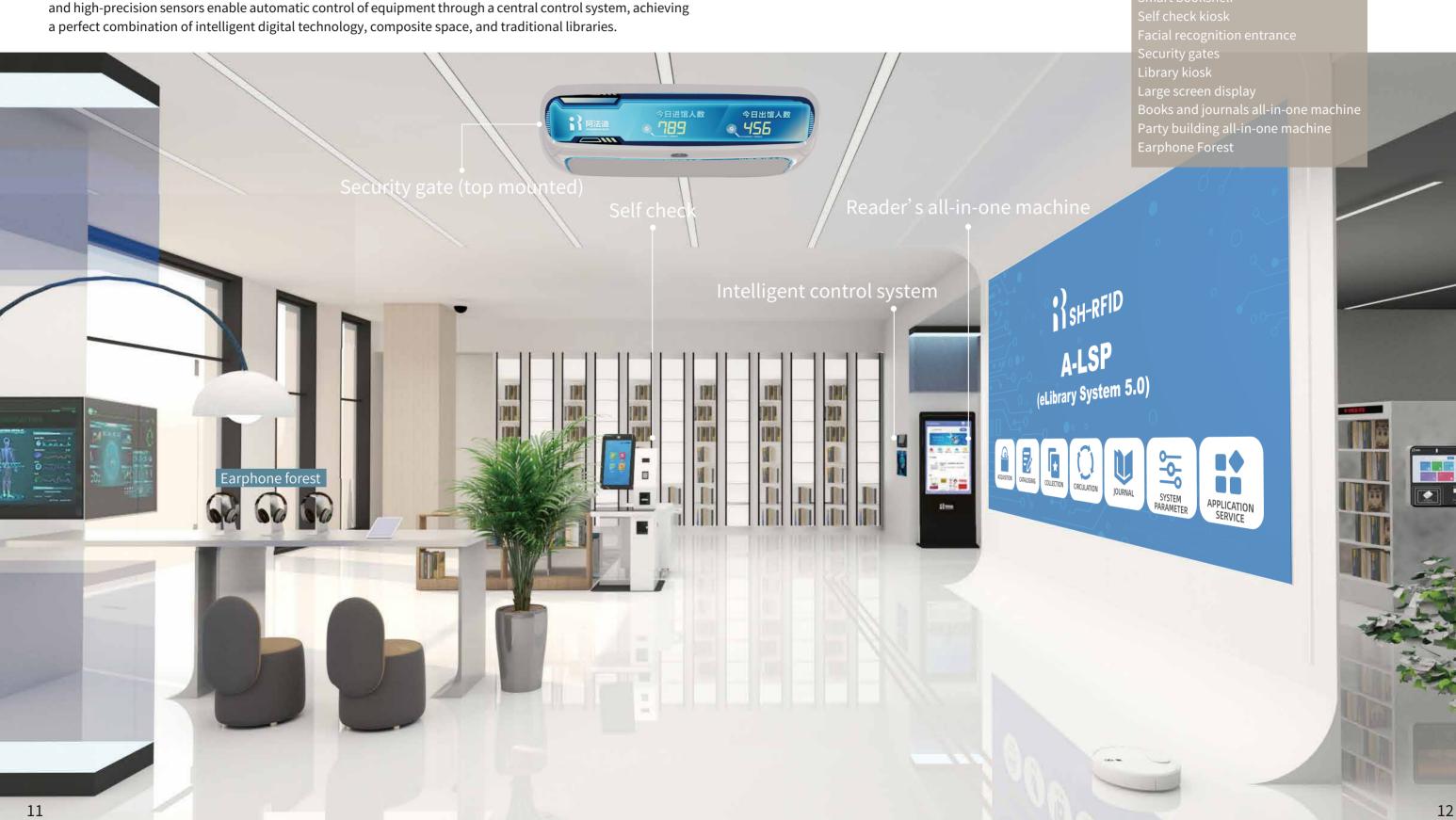
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Intelligent service robot

City Study

Highlights: 24-hour reading, 15 minute reading circle

The 24-hour self-service public library is a new way of reading and a new model of public cultural services that has emerged in response to the needs of the times. By relying on big data analysis, multidimensional reports, and open platforms, data processing and communication technologies are achieved, integrating paper and data resources, reading services, and convenient services. The no-disturb night vision mode, remote control, and high-precision sensors enable automatic control of equipment through a central control system, achieving a perfect combination of intelligent digital technology, composite space, and traditional libraries.

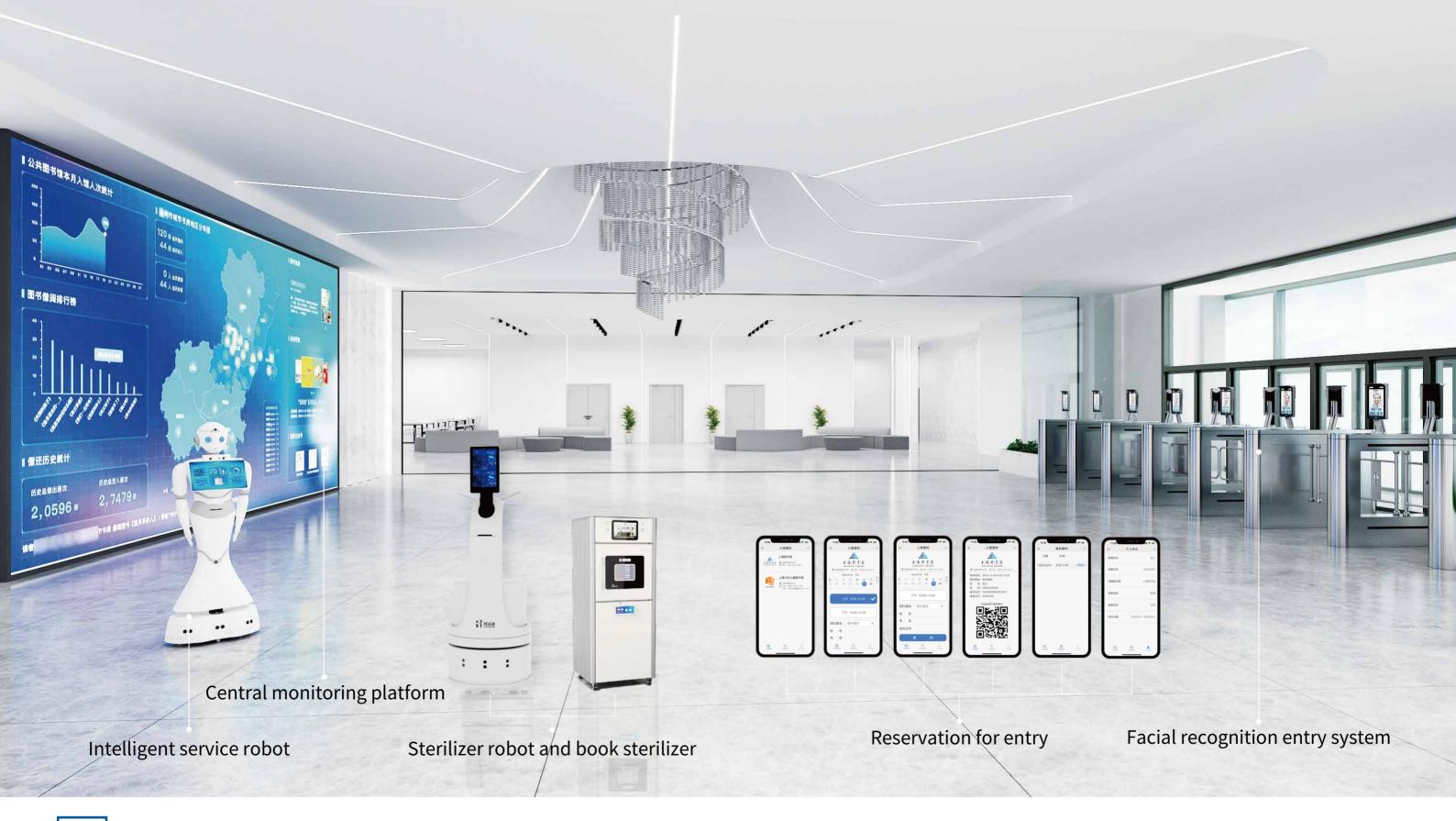


Children's reading area

Highlights: Combining education with entertainment, exploratory discovery, science, and liveliness

The children's reading space has a distinct appearance, cartoon like image, and a design that perfectly conforms to ergonomics. Books that can be played with, stories that can be drawn, and knowledge that can be easily gained; Let the children and their parents harvest happiness and hope, wisdom and courage together.

Immersive interactive projection Idiom competition VR interactive machine Ecological interactive experience cabin Sandbox projection interactive experience **Book pavilion** Digital Chinese Children's book all-in-one machine lligraphy experience Intelligent service robot Children's self check kiosk Electric chess 阿法迪 13 14



Intelligent security scenario

Utilizing facial recognition camera, infrared temperature measurement, one-stop temperature detection, appointment registration, flow control, creating a safe and secured environment. Book sterilizer, sterilizer robot and contactless interactive screen gives people a full sense of security.

Highlights: Smart protection, seamless interaction



Mobile phone scenario

The activity management system can help the library promote activities and assist readers in participating. Readers can complete various operations such as reservation, check-in, and inquiry through mobile terminals, and be informed of the library's activities in advance, which is convenient and time-saving. The space reservation management system can unify and intelligently manage various functional spaces in the library, build diverse physical spaces, and create a collaborative innovation environment.

Highlight: Convenient and flexible, intelligent control

Mobile phone scenario

Ink screen seat reservation



I Silent cabin



Sound isolation

Sound insulation level: 35dB Reverberation time: 0.25s

The use of 38mm thick double-layer aluminum honeycomb panels and high-density damping soundproofing felt has met the soundproofing requirements, and the interior is matched with advanced materials to achieve the sound environment standards.



Fresh air system

Adopting a multi sound barrier sound insulation design, changing the direction of sound propagation and extending the distance of sound propagation, while greatly reducing the noise of the fresh air system and minimizing sound interaction inside and outside the cabin. the cabin air can be completely refreshed every two minutes.

Features

- ·Acoustic aluminum honeycomb panel
- · Polymer soundproof material
- · High density polyester sound-absorbing board
- · Natural light illumination
- · Healthy fresh air system
- · Green and environmentally friendly power supply

Ö

Illumination

Standard 4000K natural light color temperature LED central lighting system, standard 150LSX lighting to meet normal usage needs. Preinstalled expandable power supply in the cabin, customizable lighting for different scenarios.



Power supply 220V

Suitable for 100—240V/50—60Hz and 12V-USB power supply systems, compatible with mainstream equipment and energy environments inside and outside the cabin. Three control switches control one lighting lamp and two exhaust fans respectively.

Space reservation management system

Centralized management of space resource platform to comprehensively understand the utilization rate of space resources. Support multi-channel appointment methods, user permission management, unified identity authentication login, custom system usage permissions, comprehensive graphical reports, comprehensive data analysis basis, map guidance, quick search for spatial location, support WeChat message push, integrated visitor system function, based on cloud technology architecture research and development, industry standard data interface, using Al facial recognition authentication for fast authentication, improving user experience.



eLibrary admission reservation librarian backend management PC end

eLibrary activity reservation librarian backend management PC end

Wechat official account reservation librarian backend management PC end

Reservation backend management

Mobile phone borrowing APP

Credit binding

Book search

Seat reservation

Virtual navigation



Indoor intelligent service scenario

Robots undertake tasks such as navigation, consultation, and guidance, interact with readers and audiences in a friendly manner, and provide readers with comprehensive services. Robots accompany readers to achieve seat reservations, science popularization training, conference services, and reading newspapers and books. Robots connect to cloud based big data and provide services in a more "smart" way through voice conversations, helping people make decisions. The new generation of libraries is bringing innovative experiences to readers in a completely new way.

Highlight: High end, precise service

Shanghai RFID intelligent library structure

Cloud platform

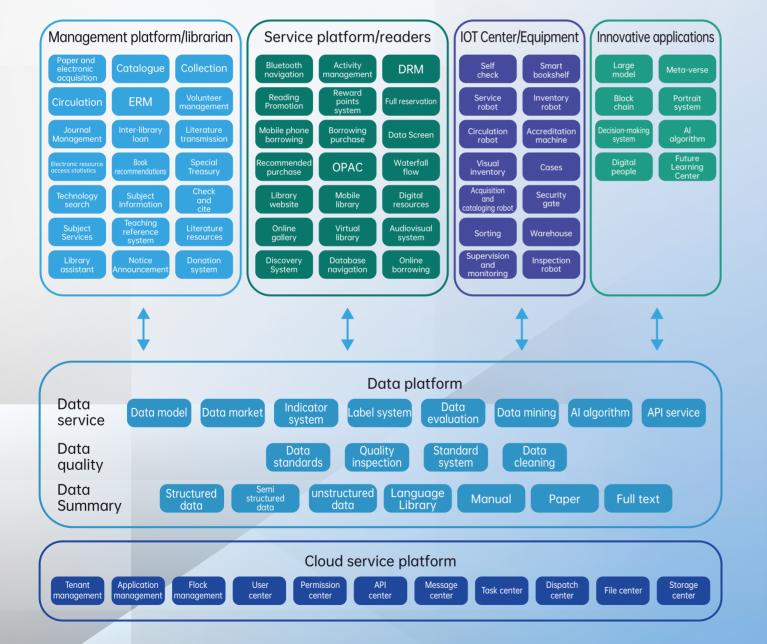
Multi tenant mode, hard isolation of different buildings Micro service structure

Data center

Establish a data center for the entire library to achieve a data-driven smart library system

Business Platform

Build a management platform, service platform, IOT platform, and innovative application platform to comprehensively create a smart library architecture system



A-LSP (eLibrary system 5.0) overview

A-LSP is a library management platform based on microservice architecture and cloud services. This platform expands the global knowledge base, matches with dispersed local resource repositories, provides integrated management tools for libraries, and offers readers a simple search and discovery interface.

By integrating and fusing all resource data, spatial data, device data, and generated behavioral data of the library, a data center based on a digital foundation is constructed. Driven by data, the library's ability to innovate applications is enhanced, and new high-tech tools are utilized to create innovative business forms in digital transformation.

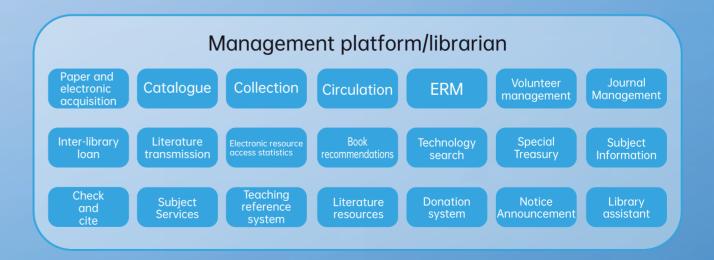
Application environment under micro-service architecture

Paper and electronic acquisition

Booksellers/library distributors - libraries - readers, forming a one-stop service that integrates paper and electronic books; The latest published books, books purchased by our library, and books not purchased by our library are all covered; Provide high-definition book cover, table of contents, introduction, reader target, and other fields to compensate for the lack of linked table of contents. Implement book recommendations, borrowing, interviews, discoveries, online book fairs, book lists, and editing to bring books to readers.

Digital resource management

Implement database and electronic journal life-cycle management, including discovery, trial, selection, procurement, management, evaluation, and full process electronic resource management; Build a central knowledge base, optimize retrieval, provide resource navigation, and facilitate readers to quickly and accurately access electronic resources.



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Features

O1 Pre-cataloging, cataloging is transmitted with the book to shorten the time for new books to be listed
O2 Standard API interface service, open sharing, library can access third-party application modules as needed
O3 Data driven, capable of integrating and fusing all resource and production data within the library, driving various statistical reports and decision-making services to be more accurate and efficient
O4 Module supports hot swap, providing uninterrupted library services
O5 Provide a combination of cloud services and localization to share large resource information and ensure in-house data security
O6 Cloud services provide a nationwide production environment that meets the requirements of comprehensive domestic production
O7 Data mart, providing data services, supporting and driving application development

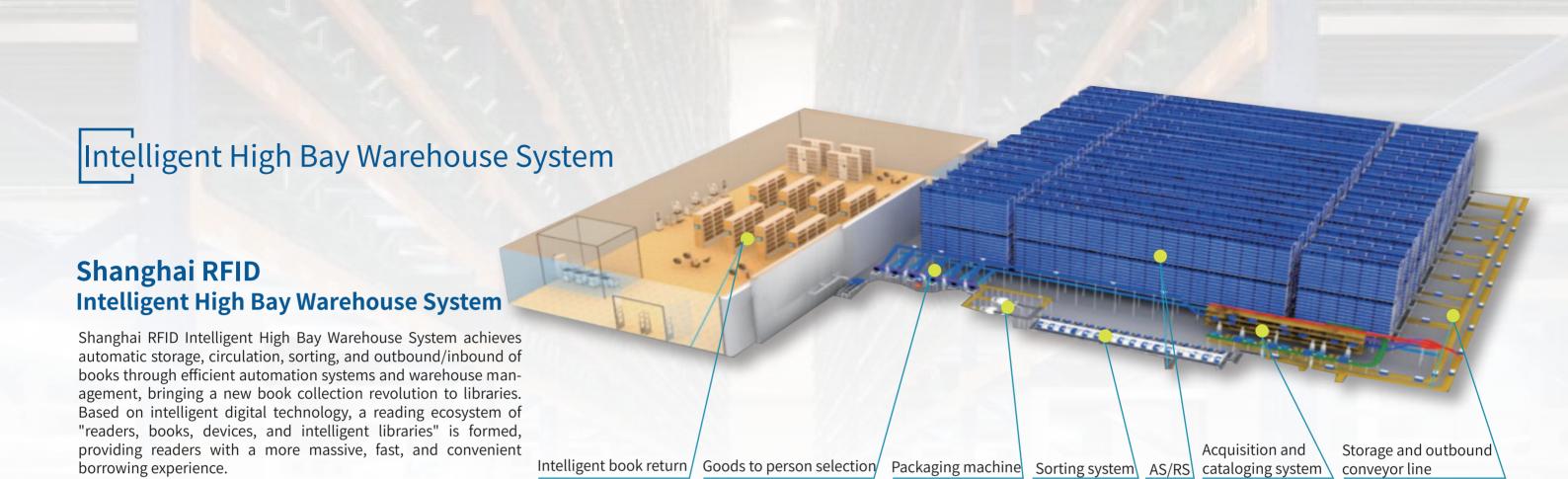
Operation Space Info management Data statistics and analysis System management Equipment management Guidance service Request management Membership service and management Equipment reservation Activity management Printed Management Acquisition and cataloging all-in-one Circulation **Decision support** Journal Integrated office Archive management Assessment and evaluation Online borrowing service Recommendation service **Data Center** Topic management **Teaching** All-round data management Electronic Essay management Supportive data service Resource discovery Teaching guidebook Future study center Original data management Resource management Central knowledge base Local knowledge base management Research Consulting service Digital Open-up science Database of organizations Savings management Resource processing Long-term preservation Copyright management

Features

| 01 | Integrated management of paper and electricity, connecting bo libraries, and readers to form a supply chain ecosystem | oksellers, | P | |
|----|--|------------|--|--|
| 02 | Micro-service architecture, highly open, multi tenant mode, application isolation, user isolation | M | | |
| 03 | Support object-oriented data and provide unified standard compatibility testing | W. C. | (QD) | |
| 04 | Establish a unified user management system and connect all business applications | | THE PARTY OF THE P | |
| 05 | Enable readers and librarians to break free from spatial limitations and experience the ubiquitous nature of the library | | | |
| 06 | Fine grained the functional modules of traditional ILS to form applications in the app store | | | |
| 07 | Data driven, integrating library data to drive innovative applicat | tions | | |

Platform advantages

| | A-LSP (eLibrary system 5.0) | Traditional Library Management System |
|---|-----------------------------|---------------------------------------|
| Booksellers-Library-Reader Ecological Management | √ | × |
| Digital base architecture system, unified management of data throughout the library | √ | × |
| Ecological design concept, stronger compatibility | √ | × |
| Integrated management of paper and electronics | \checkmark | × |
| Integrated monitoring and management of terminal devices | √ | × |
| The variety of intelligent terminals is rich, and they can be directly connected to management systems, with a high degree of integration | √ | × |
| With rich data experience, the integrity and security of data migration are guaranteed | √ | × |
| Process optimization, one click acceptance cataloging | \checkmark | × |
| Support MARC dual screen cataloging and have a third plagiarism check screen | √ | × |
| Handheld terminal cataloging and circulation | √ | × |
| Local after-sales teams are available in all provinces across the country for on-site service | √ | × |



1.Efficient utilization of the warehouse

The system integrates bin stacker cranes, four-way shuttle buses, or fully automatic sorting machines to achieve fully automatic entry and exit of books, fully saving library manpower and greatly improving the efficiency of book use and circulation.

2.Modular and scalable system design

Realize system design flexibility through modular product series. The concept of variable storage locations and intelligent IT technology help optimize storage, as well as the use of intelligent sorting machines and robots, which helps maintain system flexibility and book business management.

3. Digital twin, leading the trend

Innovative bin stacker cranes and multi-layer shuttle technology can meet various needs of libraries. In addition, the software interface can display the status of shuttle cars, elevators, and tunnels in real time and control various equipment.



