Yanzeo SR681

YANZEO SR681 UHF RFID Reader User Manual

Model: SR681 | Brand: Yanzeo

1. Introduction

The YANZEO SR681 is a high-performance UHF RFID integrated reader designed for long-range identification applications. It features an 8dBi antenna, providing a reading distance of up to 6 meters. With its IP67 rating, the SR681 is suitable for outdoor and harsh industrial environments, offering reliable performance in various conditions. This manual provides essential information for the proper setup, operation, and maintenance of your SR681 RFID reader.

Figure 1: YANZEO SR681 UHF RFID Reader with power adapter, mounting bracket, and connection cables.

2. Key Features

- **Long Reading Range:** Equipped with an 8dBi antenna, capable of reading tags up to 6 meters away.
- **Robust Design:** IP67 rated for water and dust resistance, featuring an ABS+PC material shell for durability in harsh environments.
- **Multiple Interfaces:** Supports USB, RS485, and Wiegand26/34 output for versatile integration.
- **High Performance:** Utilizes efficient digital signal processing algorithms for fast label read/write operations and high recognition rates.
- **Wide Frequency Range:** Operates within 860-960MHz.

Figure 2: Illustration of the SR681's built-in high-gain antenna performance and specifications.

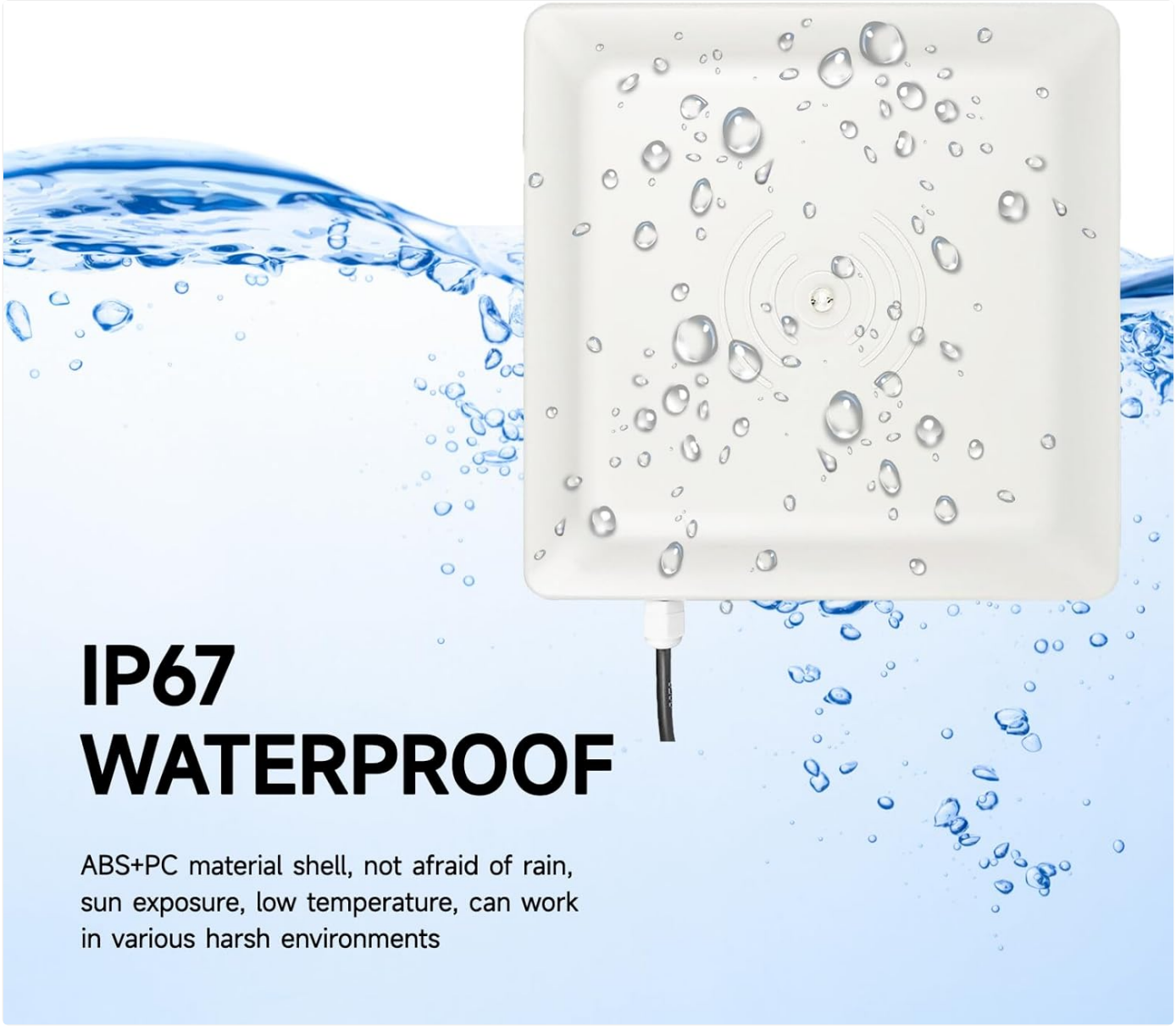


Figure 3: The SR681's IP67 waterproof design, suitable for outdoor use.

3. Setup and Installation

3.1 Physical Installation

The SR681 reader is designed for easy mounting. Use the provided mounting bracket and hardware to secure the reader to a stable surface. Ensure the mounting location allows for optimal signal propagation and is within reach of power and data connections.

Figure 4: Top view of the SR681 showing integrated cables.

Figure 5: Back panel of the SR681 with connection pinout details.

3.2 Electrical Connections

Connect the power adapter to the reader and a suitable power outlet. Utilize the USB, RS485, or Wiegand cables as required for your specific application. Refer to the pinout diagram on the back of the reader (Figure 5) for correct wiring.

- **USB:** For direct connection to a computer for data transfer and configuration.
- **RS485:** For industrial control systems and long-distance communication.
- **Wiegand26/34:** Commonly used for access control systems.

3.3 Software and Driver Installation

For advanced configuration and integration, download the Software Development Kit (SDK) and necessary drivers from the official Yanzeo website: www.yanzeo.com/download. This resource provides tools and documentation for developers. An installation and debugging video is available for reference: https://youtu.be/ghL1Aj2Jj9M.

4. Operating Instructions

Once powered on and connected, the SR681 reader is ready to detect UHF RFID tags. The reader emits an effective signal in a fan shape, approximately 60°-90° forward, optimizing long-distance identification.

Figure 6: Long-distance identification and effective emission signal area.

4.1 Tag Reading

Position the RFID tags within the reader's effective reading range (up to 6 meters). The reader will automatically detect and process the tag data. The speed and accuracy of reading are enhanced by the reader's efficient digital signal processing algorithm.

4.2 Application Scenarios

The SR681 is versatile and can be deployed in various applications, including but not limited to:

- **Vehicle Access Control:** Managing entry and exit for vehicles.
- **Industrial Production:** Tracking assets and processes in manufacturing environments.
- **Logistics:** Inventory management and tracking goods in warehouses and supply chains.
- **Access Management:** Controlling personnel access in buildings or restricted areas.
- **Garage Management:** Automated parking and vehicle identification.

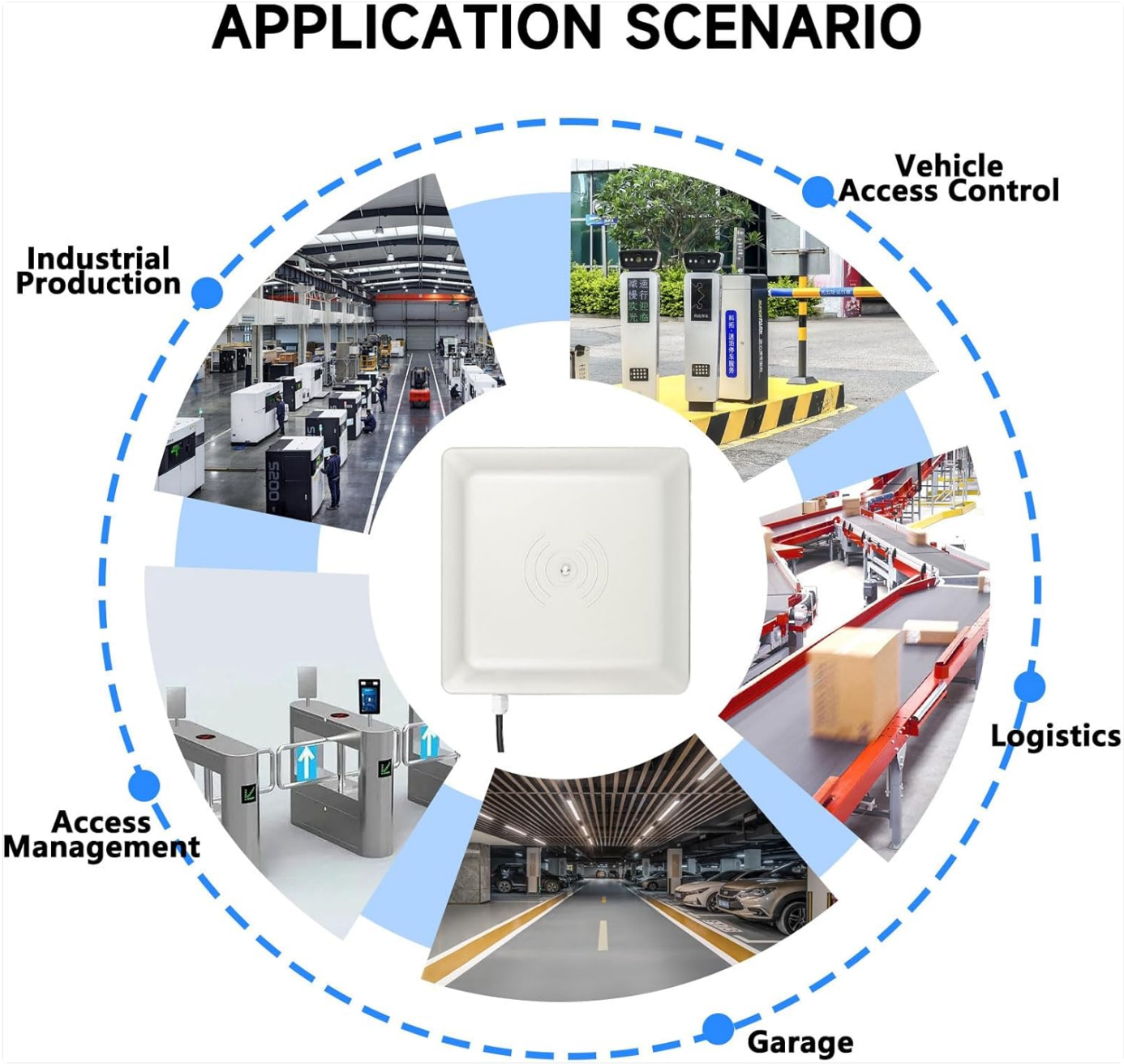


Figure 7: Diverse application scenarios for the SR681 UHF RFID Reader.

5. Maintenance

The YANZEO SR681 is built for durability and requires minimal maintenance. Its IP67 rating ensures protection against dust and water ingress, making it suitable for outdoor and challenging environments.

- **Cleaning:** Periodically wipe the exterior of the reader with a soft, damp cloth to remove dust and dirt. Avoid using harsh chemicals or abrasive cleaners.

- **Environmental Protection:** While IP67 rated, avoid prolonged submersion or exposure to extreme temperatures beyond its operating specifications to ensure longevity.
- **Cable Inspection:** Regularly inspect cables and connectors for any signs of wear or damage. Ensure connections are secure.

6. Troubleshooting

If you encounter issues with your SR681 RFID reader, consider the following common troubleshooting steps:

- **No Power:** Ensure the power adapter is securely connected to both the reader and a working power outlet.
- **Tags Not Reading:**
  - Verify tags are within the 6-meter reading range.
  - Check for obstructions between the reader and the tags.
  - Ensure the reader's antenna is oriented correctly towards the tags.
  - Confirm the tags are compatible UHF RFID tags (e.g., ISO18000-6C/EPC GEN2, ISO18000-6B).
- **Communication Issues:**
  - Check the integrity of USB, RS485, or Wiegand cables.
  - Ensure correct driver installation for USB connections.
  - Verify software settings and communication protocols are correctly configured.

For further assistance, refer to the SDK documentation available on the Yanzeo website or contact Yanzeo's professional technical support team.

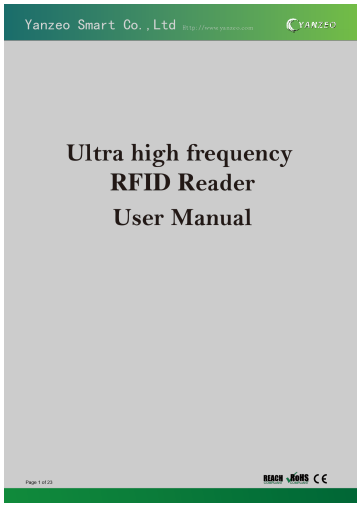
7. Specifications

Feature	Specification
Brand	Yanzeo
Model	SR681
Antenna	8dBi Integrated Antenna
Maximum Range	6 Meters
Working Frequency	860-960MHz
Interfaces	USB, RS485, Wiegand26/34
Ingress Protection (IP) Rating	IP67
Material	ABS+PC
Package Dimensions	15 x 10.24 x 4.17 inches
Item Weight	3.85 pounds
Supported Protocols	ISO18000-6C/EPC GEN2, ISO18000-6B

8. Warranty and Support

The YANZEO SR681 UHF RFID Reader is manufactured in an ISO-9001 quality certified factory, ensuring high quality and reliability. All parts undergo extensive testing by quality control experts.
While specific warranty terms are not detailed in this manual, Yanzeo provides a professional technical support team to assist with any inquiries or issues. For further support, resources, and services, please visit the official Yanzeo website: www.yanzeo.com.

Documents - Yanzeo – SR681



Yanzeo Ultra High Frequency RFID Reader User Manual
User manual for the Yanzeo Ultra High Frequency RFID Reader, detailing its parameters, applications, wiring, installation, and software operation.
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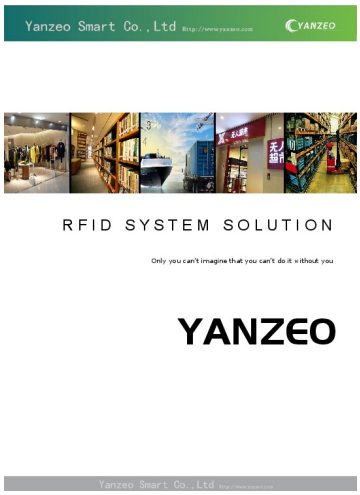

[pdf] Specifications Accessories
Yanzeo SR681 UHF RFID Reader Specifications uhf rfid reader antenna and writer is a High Performance integrated for long range operation The operates in frequency of yanzeo data |||
RFID SYSTEM SOLUTION Only you can t imagine that you can t do it without you YANZEO **SR681** u **SR681** is a High Performance UHF integrated reader for long range operation. The reader operates in frequency range of 960MHz960MHz design to read ISO18000-6C and ISO18000-6B protocol ID Tag.The reader can ...
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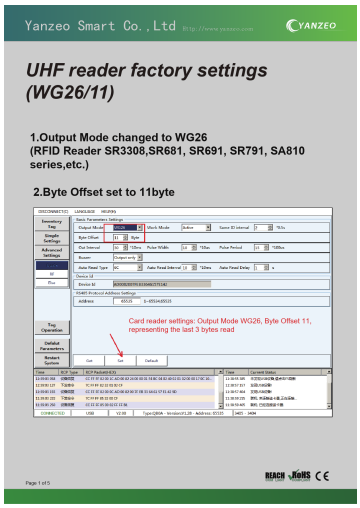

[Yanzeo UHF RFID Reader Factory Settings Guide (WG26/11)]

This guide details the factory settings for Yanzeo UHF RFID readers, specifically focusing on WG26 output mode and byte offset configurations. It covers common reader models like SR3308, SR681, SR691, SR791, SA810, and DM02 DR201, providing instructions for setting output modes, byte offsets, and troubleshooting connection issues.

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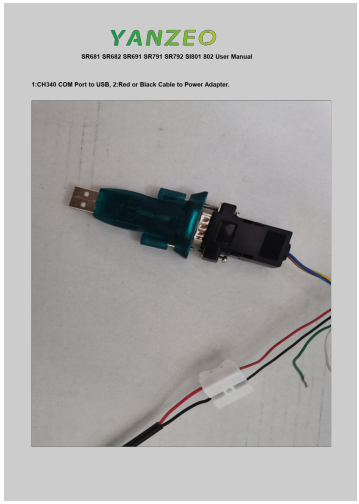

[pdf] User Manual

Yanzeo SR681 SR682 SR691 SR692 SR791 SR792 SI801 SI802 UHF RFID Reader User Manual Fixed Card SR681UserManual yanzeo Support |||

SR681 SR682 SR691 SR791 SR792 SI801 802 User Manual 1:CH340 COM Port to USB, 2:Red or Black Cable to Power Adapter. 2:USB 3:Set the working mode of the reader according to your needs. If you need to write a card, please set the reader to passive mode. 4:Set your regional standard 5:Set the bau...

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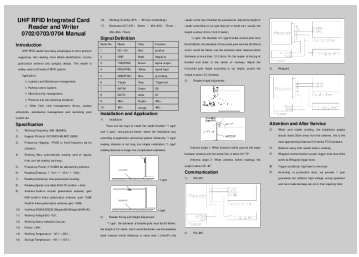

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AOSID User Guide YANZEO SR681 UHF RFID Reader 6m Long Range Outdoor IP67 8dbi Antenna RS232 RS485 Wiegand Output Integrated 61W S0LVo L m media amazon images I |||

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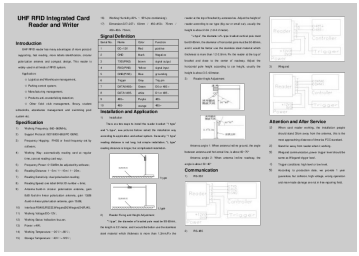

[pdf] Specifications Label

Yanzeo SR681 SR682 SI801 SI802 UHF RFID Parking Management Solution parking system Integrated Card Reader and Writer Introduction reader has many advantages of more protocol supporting fast reading labels identification circular SR681SI801 yanzeo Support |||

UHF RFID Integrated Card Reader and Writer Introduction UHF RFID reader has many advantages of more protocol supporting, fast reading, more labels identification, circular polarization antenna and compact design. This reader is widely used in all kinds of RFID system. Application: Logistics and War...

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