Gainscha
Reliable and Innovative

佳博科技
GAINSCHA GROUP

Focus on computer Internet terminal equipment industry for more than 20 years
Thermal Printer Industry Leader

珠海柏印自动化设备有限公司
Gainscha Auto ID Co., Ltd

Content

Gainscha
Reliable and Innovative

RFID Printer Overview

RFID Tag Introduction

RFID Printer Operation

F&Q

RFID GA-2408T

High Adaptability, Ease of Use, High Stability

Key Features:

· Support to Read, Write and Print on **UHF RFID labels**, ideal for high-value assets management

· Thermal transfer and direct thermal print technology, work with various print media, maximize customer's investment

· 203dpi, 300dpi print resolution models available for option to meet printing requirements (GA-2408T for 203dpi, GA-3406T for 300dpi)

· USB, USB+Bluetooth+WiFi interface for customer option

· Pre-installed multiple printing emulation for easy system integration

· Driver, SDK and Printer utility available

Top View

The printer status is observed by 4 indicators

Three operations can be performed by FEED button

1.FEED: In normal status, press the button to feed the paper as per following modes:

- Continuous paper, feed the length as per setting
- Gap paper, feed the length as per gap
- Black mark paper, feed the length as per BM height

2.PAUSE： Press this button to pause printing while the printer is working. Press once again to continue printing

3.ERROR CANCLE： When the printer reports the error status, if it is confirmed that the error has been handled, the normal state can be restored after pressing the button.

Back View

USB： Available to connect the PC to install the driver and setting by Printer Utility

Bluetooth/WIFI is option

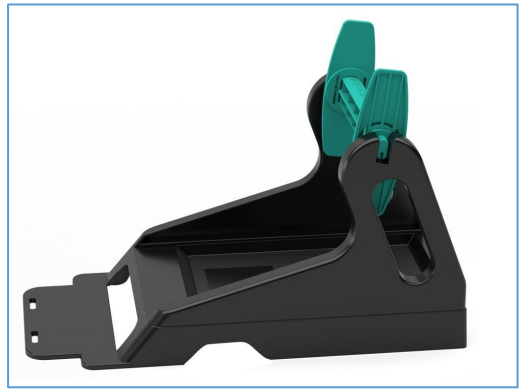
External Channel: For large rolls of paper, it can be delivered from the outside (external bracket is required, please put it flat with the printer when using, do not put it crooked)

1.DC Jack

2.USB port

3.Power switch

4.External Channel for media



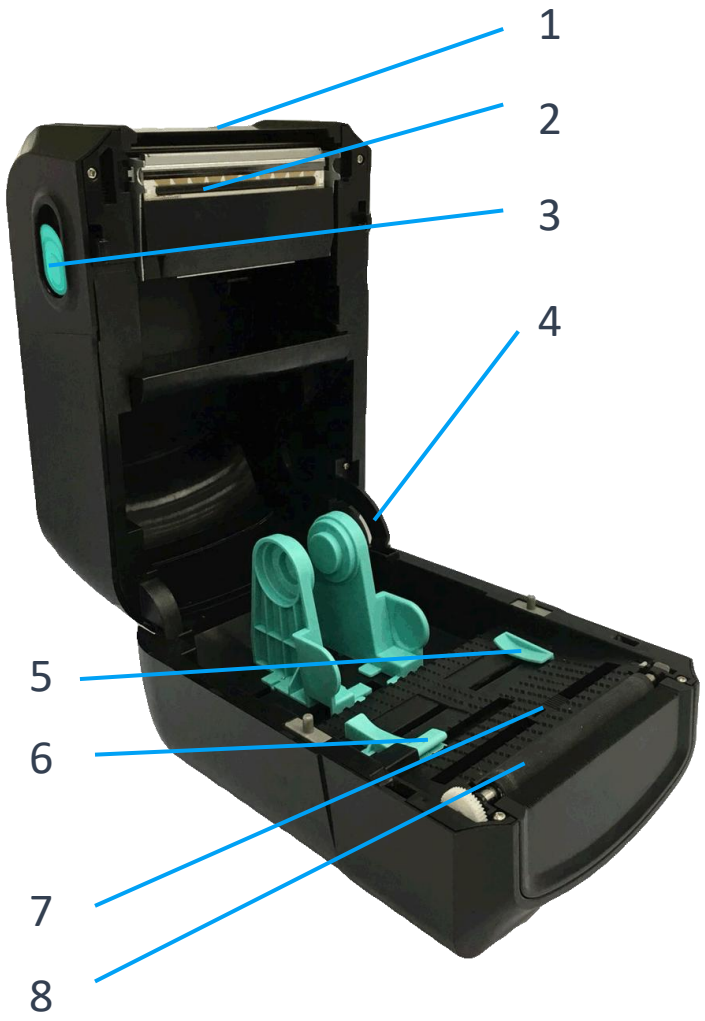
Inside View

Ribbon Placement: Ribbon supply shaft, this is the place where the unprinted ribbon is placed, the waste ribbon placement is visible by opening the cover of the No. 1 .

Paper Cilp： need to clamp the paper, so that the paper does not move left and right, otherwise there will be left and right offset or paper out of the sensor position resulting in a lack of paper

Transmission paper sensor： This sensor is used to detect whether the gap and paper exist, please confirm that the paper is placed under the sensor, such as the paper is not placed under the sensor, there will be a lack of paper and other errors.

Reflective paper sensor : This sensor is used to detect the function of black label. If the black label mode is used, the sensor should be positioned to the place with black label (please minimize moving to the position with rich colors, which is easy to cause false detection of the sensor, and avoid moving to the position with perforation, such as wristband).

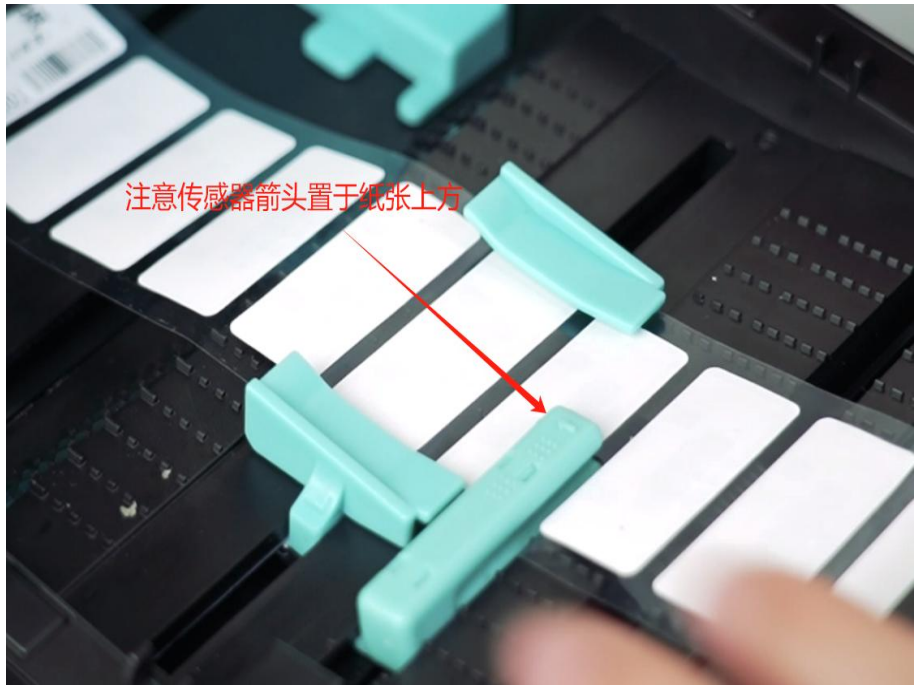


1.RFID Antenne
2.Thermal printhead
3.Top-cover open button
4.Cover holder
5.Paper clip
6.Transmission paper sensor (gap/punch use)
7.Reflective paper sensor (black label/marking use)
8.Platen roller

Media Loading

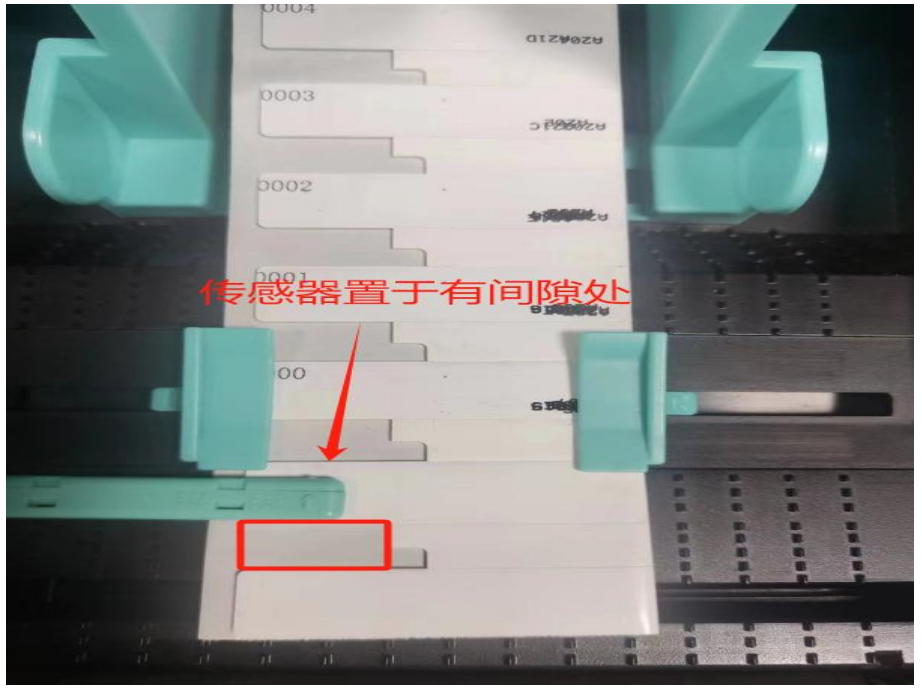
Transparent Backing Label

Anti-liquid RFID label for healthcare



Sensor place on the label gap

Flexible on-metal RFID label



Sensor place on the label gap

Media Loading

Normal Label

Sensor place on the label gap

Black Mark label

* Transmission sensor places on paper surface
* Reflective sensor places on back of paper & black mark area

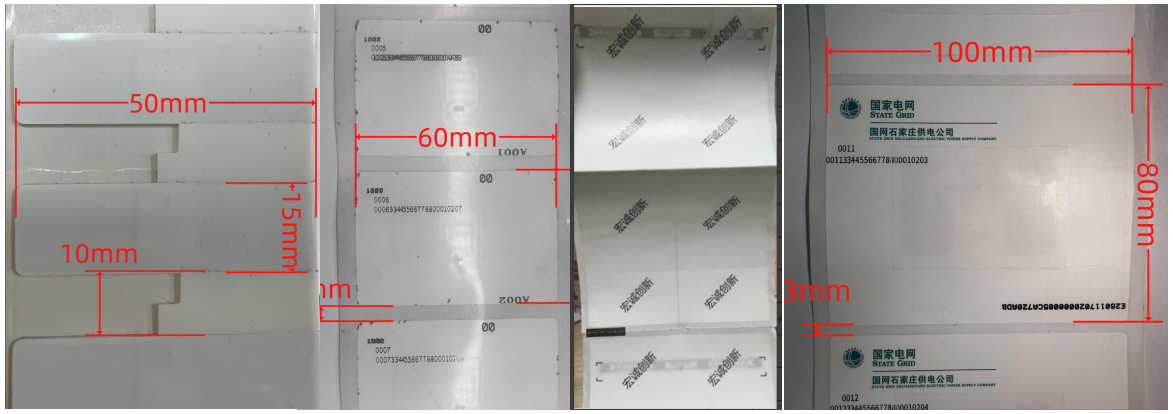
Gainscha
Reliable and Innovative

RFID Label Introduction

RFID Tag Type

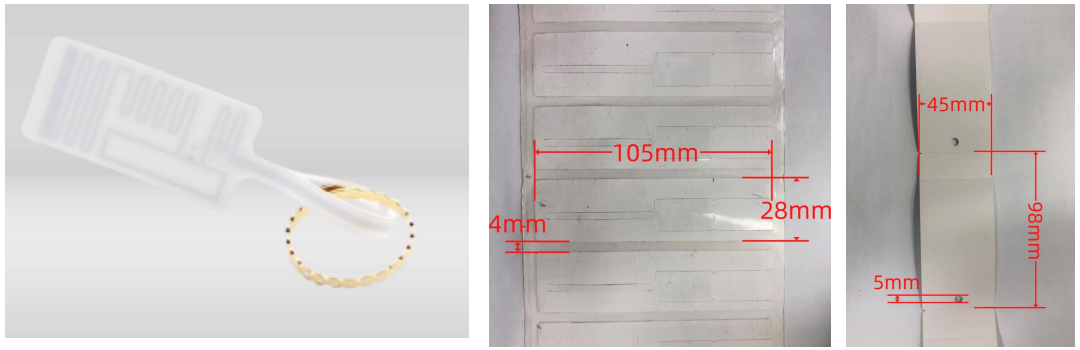
Gainscha
Reliable and Innovative

Assets Management Label



Logistics/Airport/healthcare Label

Jewellry & Tag label

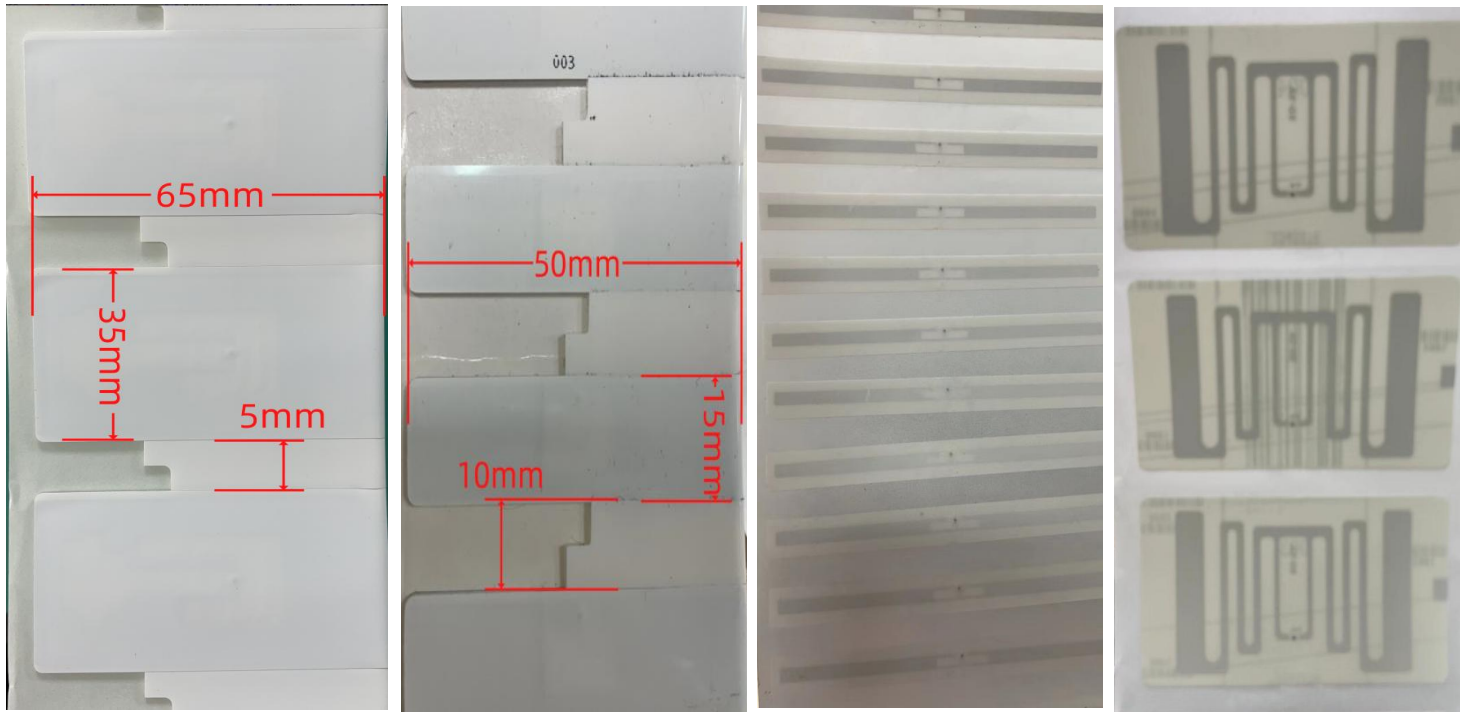


Label Spec

- Maximum thickness：1.3mm
- Minimum height：15mm

Customer Experience

- Detailed Calibration of RFID labels
- Great RFID label printing stability
- Work with jewellry RFID labels
- Reliable calibration and printing performance for small labels



RFID LABEL TEST

- Auto-calibrate
- Read and write correctly

✓ **Great performance**

Logistic_U9_80x42x3.5
Jewelry_30x45x2
Jewelry_104x28x4
AntiLiquid_NXP_U8_43x18x3
NXP_U8_74x25x2
M730_30x13x12
Higgs-EC_104x9x7
R6-P_100x6x12
U9_74x12x4
OnMetal_R6-P_65x35x5
OnMetal_H9_70x30x10
OnMetal_M730_70x30x10
OnMetal_U8_50x15x10

UHF RFID PRINTER OPERATION

Operation Routine

Routine

Install Print Media

Install RFID tag

Install ribbon

Calibrate RFID Tag

Open Gainscha PrinterUtility

Input RFID label size (width, height)

Calibrate your RFID tag

Write/Read/Print your RFID Label

Open Gainscha PrinterUtility to test your RFID label

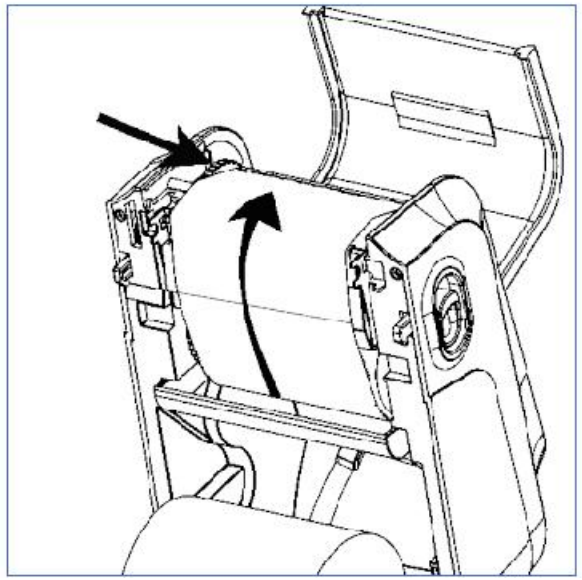
To write/encode the data

To print the RFID data

Install Media

Gainscha
Reliable and Innovative

Ribbon Wax, Resin, Wax/Resin



Label Gap, black mark, transparent etc

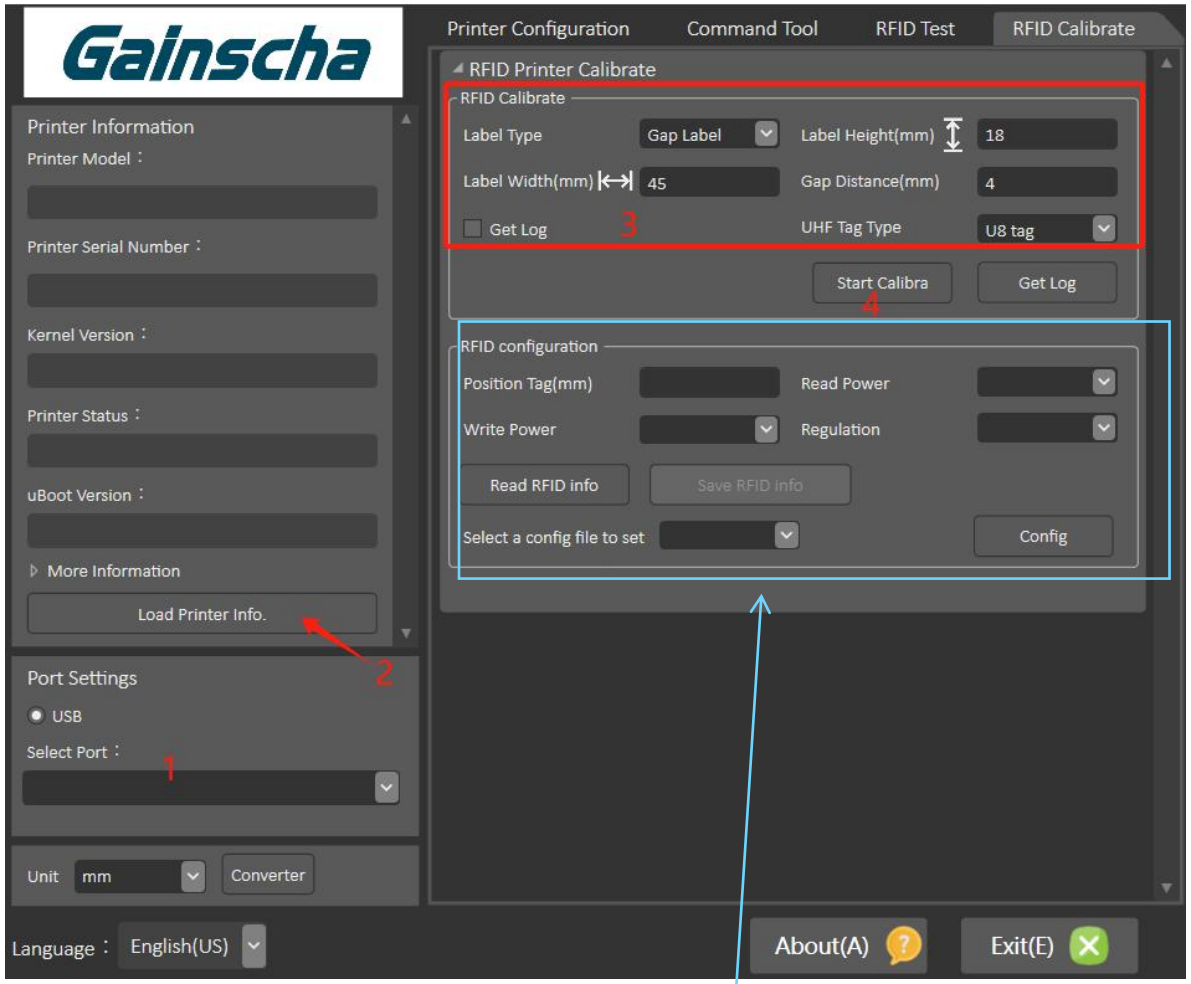
Calibrate RFID Tag

Printer Connection

Connect printer by USB,
then load printer information by printer utility

RFID Tag Calibration

* Enter the actual size of the label
  (including width height clearance height)
* Select paper type and UHF type
  (Ordinary label can be selected directly)
* Start the calibration



Calibrate your RFID label roll when it's first time to load it into printer.
After calibration done, you can use Gainscha PrinterUtility to save the label spec data for your GA-2408T.
When you change label roll with the same spec, then **No need to re-calibrate.**

RFID Tag Testing

Write/Read/Print your RFID Label

Gainscha
Reliable and Innovative

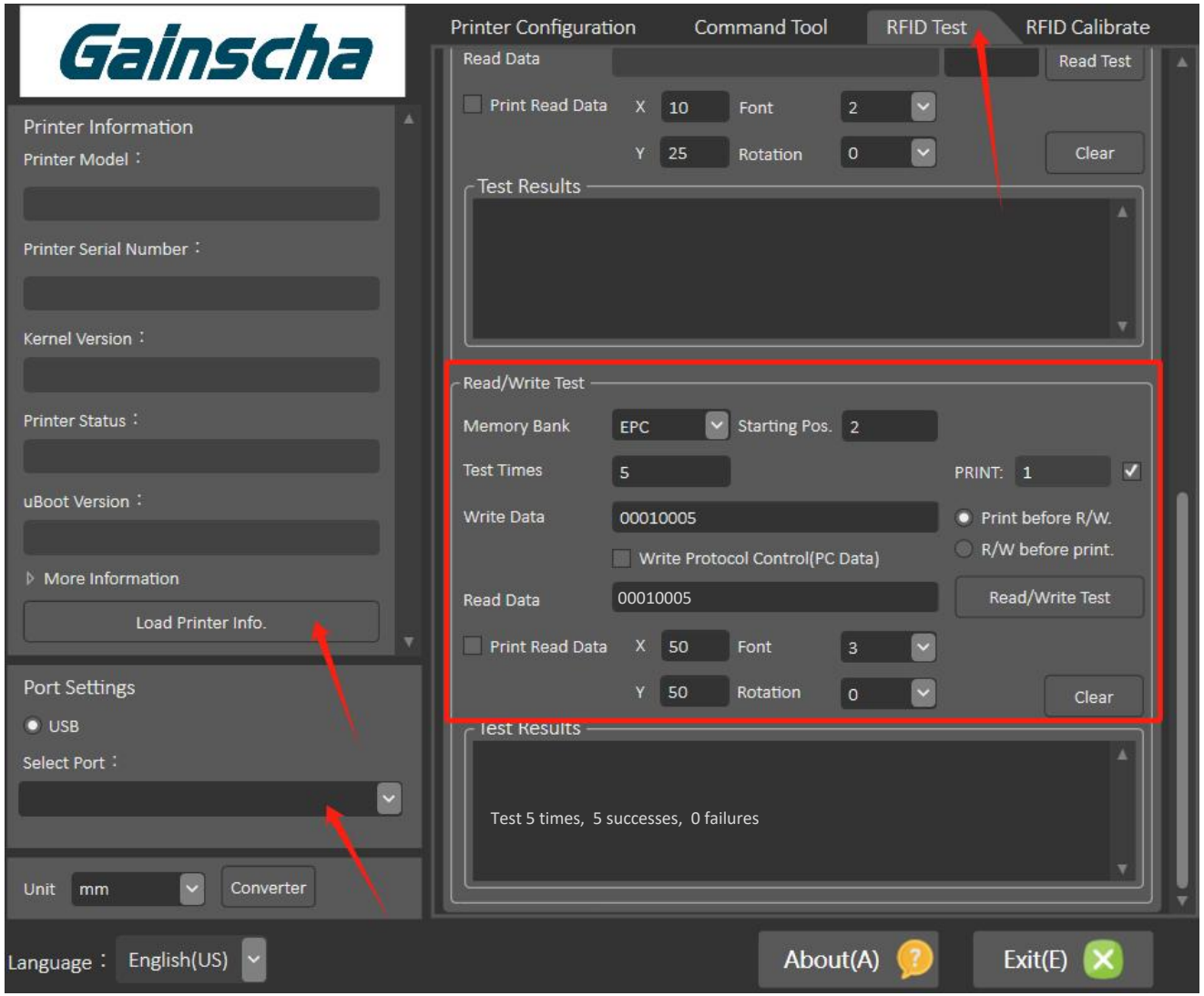
RFIT Test

Write data
Read data
Read-Only Tag - Read data
Read / Write Test

RFID Tag Calibration

Enter the actual size of the label
(including width height clearance height)

Tips: The unique ID number TID of RFID can be read out in [Read Data]

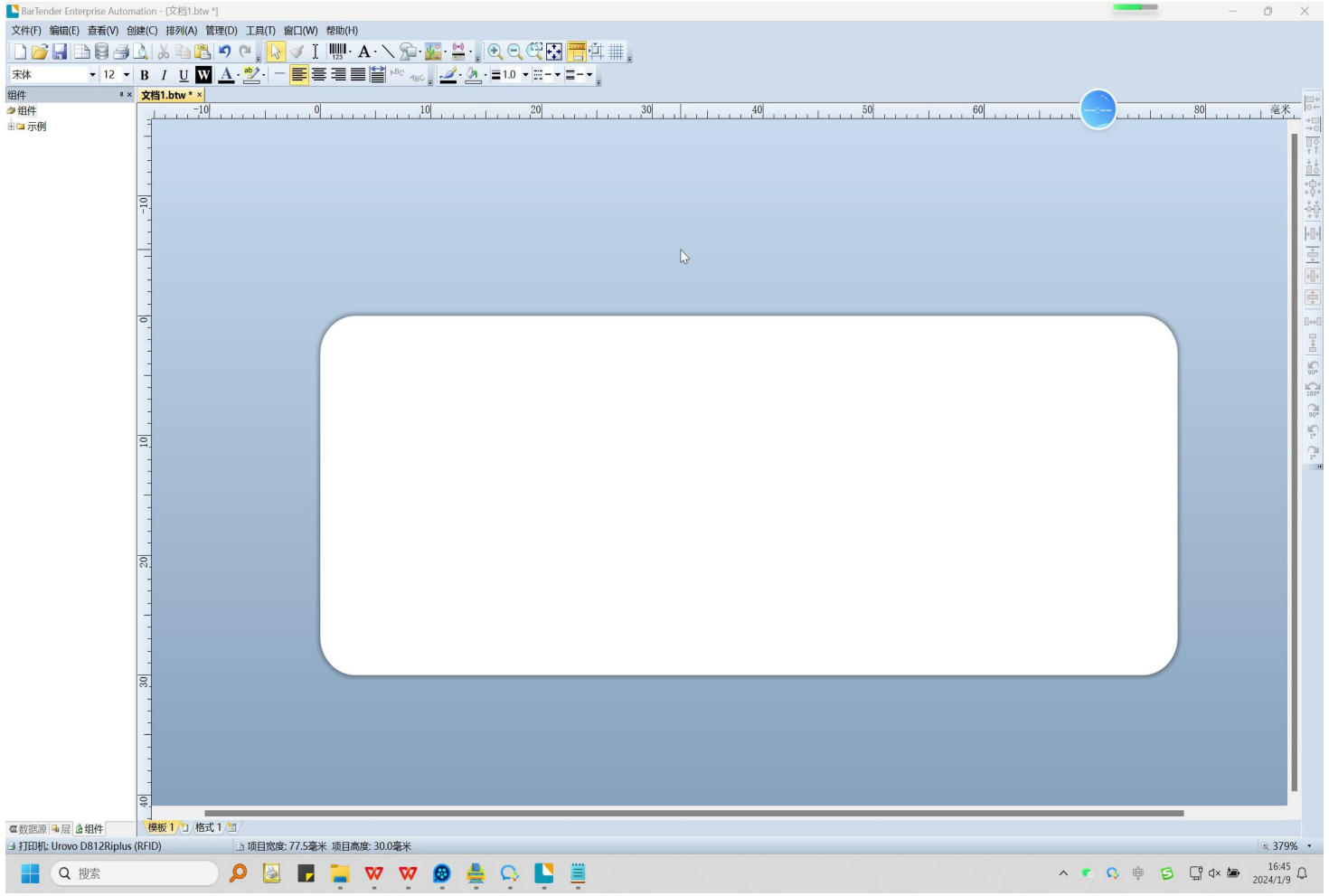


RFID Tag Editing and Printing - Bartender

Write/Read/Print your RFID Label

1. Select RFPD-EPC
2. The data source is hexadecimal and a multiple of 4
3. Available for serialization tests
4. Enter text or bar code
5. Start printing

Tips: New RFID tags need to be calibrated



Demonstration

Gainscha
Reliable and Innovative

Gainscha
Reliable and Innovative

F & Q

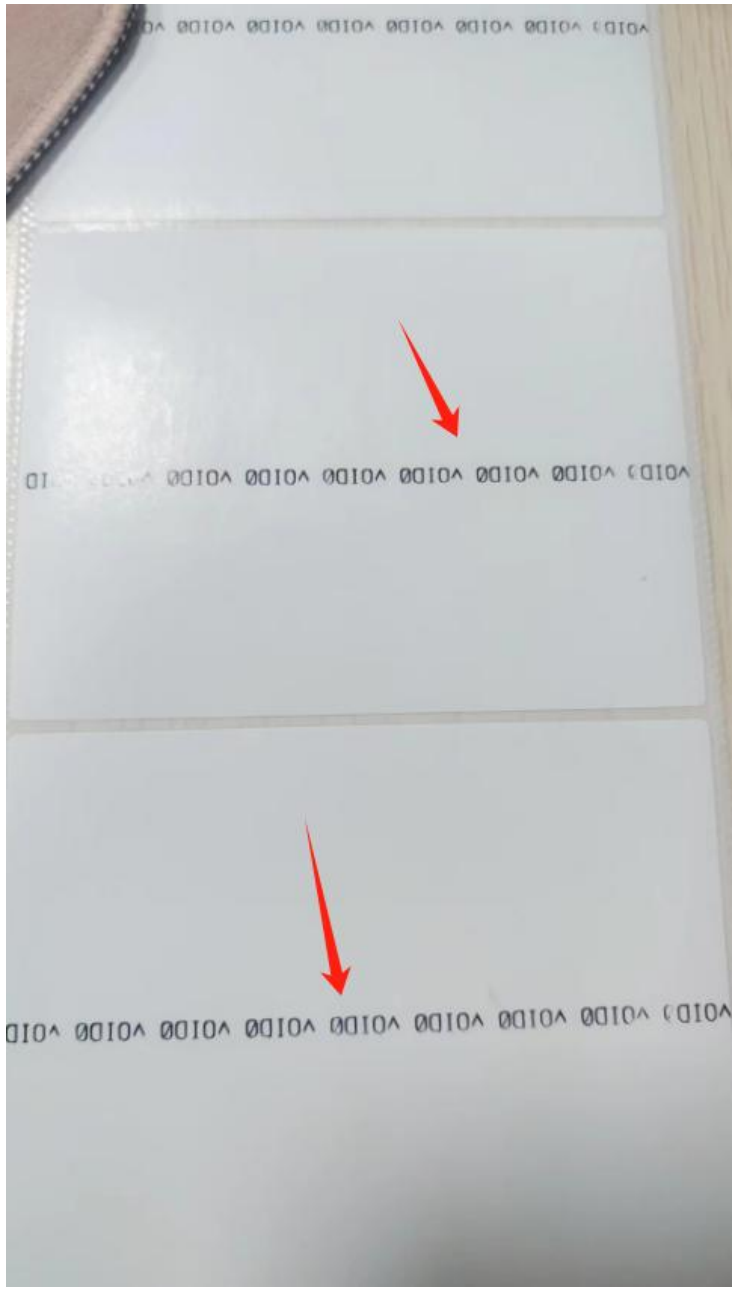
F & Q

Read/Write failure

If the RFID data writing or reading fails,
the contents of the figure will be printed at the label

Solutions

If the above situation occurs,
please recalibrate or contact Gainscha's engineer to solve



F & Q

Save RFID Configuration

The calibration information can be saved after the calibration is complete

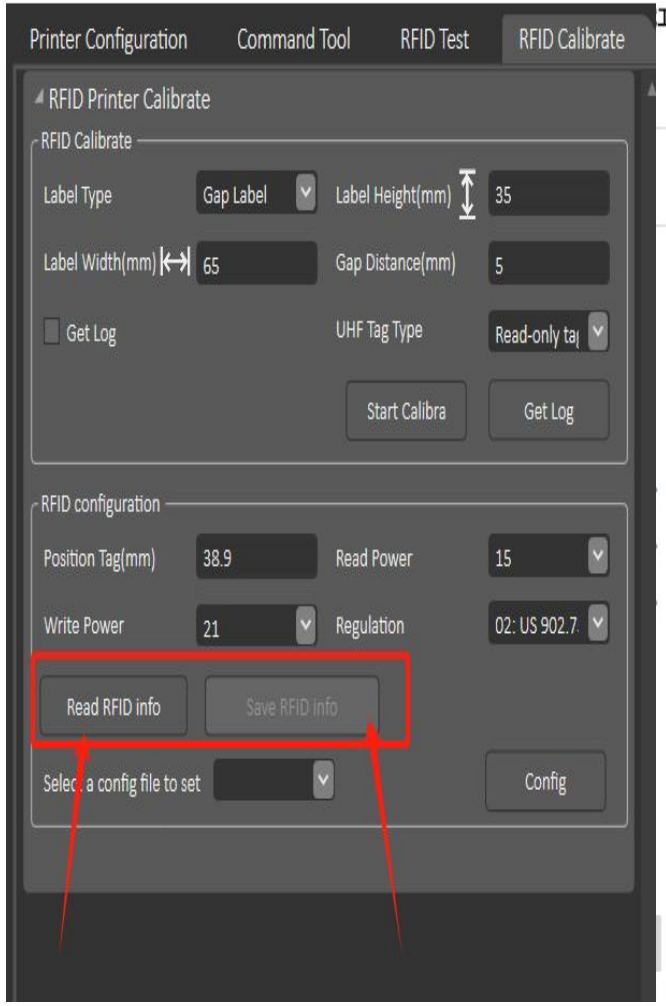
Click [Read RFID Info] > Click [Save RFID Info]

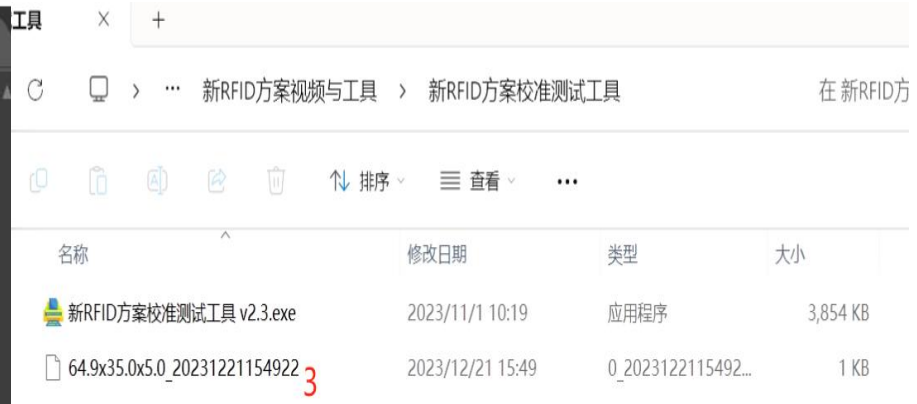
The path for saving the file is the utility path

Invoke the configuration

Select the file and click [Config]

Tips: The saved RFID Tag parameters can be used only for the same RFID Tag and size





校准完成后，可保存校准参数，适用于同样参数的标签
保存的配置信息在工具的目录下