

Uink



E-paper Display User Manual

(VB097/VC097/VE100)

☰ 2026 V1.1

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1. Product Overview

1.1 Product Introduction

VB097 / VC097 / VE100 are electronic ink screen display devices launched by uink, suitable for scenarios such as meeting room door signs, hospital bedside cards, work signs, etc. The devices manage and distribute content through the uink RMS Cloud Rendering Mid-Platform, supporting two content modes: template rendering and direct image push.

1.2 Model Comparison

The VB097 series has a total of 6 models, distinguished by the combination of communication method and battery type:

Model	Screen Resolution	Display Color	Communication Method	Near Field Configuration	Battery Type	Gateway Required
VB097A	960 × 672	Black and White (BW)	Wi-Fi + BLE + NFC	BLE / NFC	Rechargeable Battery	✗
VB097B	960 × 672	Black and White (BW)	Wi-Fi + LoRa + BLE + NFC	BLE / NFC	Rechargeable Battery	☑
VB097C	960 × 672	Black and White (BW)	Wi-Fi + Cat.1 + BLE + NFC	BLE / NFC	Rechargeable Battery	✗
VB097D	960 × 672	Black and White (BW)	Wi-Fi + BLE + NFC	BLE / NFC	Disposable Battery	✗
VB097E	960 × 672	Black and White (BW)	Wi-Fi + LoRa + BLE + NFC	BLE / NFC	Disposable Battery	☑

VB097F	960 × 672	Black and White (BW)	Wi-Fi + Cat.1 + BLE + NFC	BLE / NFC	Disposable Battery	✗
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The VC097 series consists of a total of 6 models, distinguished by the combination of communication methods and battery types:

Model	Screen Resolution	Display Color	Communication Method	Near Field Configuration	Battery Type	Gateway Required
VC097A	960 × 672	Four Colors (Black, White, Red, Yellow)	Wi-Fi + BLE + NFC	BLE / NFC	Rechargeable Battery	✗
VC097B	960 × 672	Four Colors (Black, White, Red, Yellow)	Wi-Fi + LoRa + BLE + NFC	BLE / NFC	Rechargeable Battery	☑
VC097C	960 × 672	Four Colors (Black, White, Red, Yellow)	Wi-Fi + Cat.1 + BLE + NFC	BLE / NFC	Rechargeable Battery	✗
VC097D	960 × 672	Four Colors (Black, White, Red, Yellow)	Wi-Fi + BLE + NFC	BLE / NFC	Disposable Battery	✗
VC097E	960 × 672	Four Colors (Black, White, Red, Yellow)	Wi-Fi + LoRa + BLE + NFC	BLE / NFC	Disposable Battery	☑

		White, Red, Yellow)	NFC			
VC097F	960 × 672	Four Colors (Black, White, Red, Yellow)	Wi-Fi + Cat.1 + BLE + NFC	BLE / NFC	Disposab le Battery	✗

The VE100 series consists of a total of 6 models, distinguished by the combination of communication method and battery type:

Model	Screen Resolutio n	Display Color	Communi cation Method	Near Field Configur ation	Battery Type	Gateway Required
VE100A	1600 × 1200	Full Color	Wi-Fi + BLE + NFC	BLE / NFC	Recharg eable Battery	✗
VE100B	1600 × 1200	Full Color	Wi-Fi + LoRa + BLE + NFC	BLE / NFC	Recharg eable Battery	☑
VE100C	1600 × 1200	Full Color	Wi-Fi + Cat.1 + BLE + NFC	BLE / NFC	Recharg eable Battery	✗
VE100D	1600 × 1200	Full Color	Wi-Fi + BLE + NFC	BLE / NFC	Disposab le Battery	✗
VE100E	1600 × 1200	Full Color	Wi-Fi + LoRa + BLE + NFC	BLE / NFC	Disposab le Battery	☑
VE100F	1600 × 1200	Full Color	Wi-Fi + Cat.1 + BLE +	BLE / NFC	Disposab le Battery	✗

			NFC			
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- Rechargeable battery models (A/B/C): Support Type-C charging, suitable for scenarios with power supply conditions or requiring long-term repeated use
- Disposable battery models (D/E/F): Batteries need to be replaced after depletion, suitable for scenarios with remote installation locations and no power supply conditions
- LoRa Model (B/E): Requires use with a LoRa gateway, suitable for scenarios with large-scale deployment and high signal coverage requirements
- Cat.1 Model (C/F): Communicates via cellular network, suitable for outdoor or mobile scenarios without Wi-Fi coverage

1.3 Main Features

- Electronic ink screen display, content persists after power-off
- Ultra-low power consumption, supports rechargeable batteries or disposable batteries for power supply
- BLE + NFC Near Field Configuration is Standard Across the Entire Series
- Supports installation directions of 0°, 90°, 180°, and 270°, with the platform automatically rotating for adaptation
- Remotely manage content via the uink RMS platform or API
- Supports OTA remote firmware upgrade

2. Packing List

After unpacking, please confirm that the following accessories are complete:

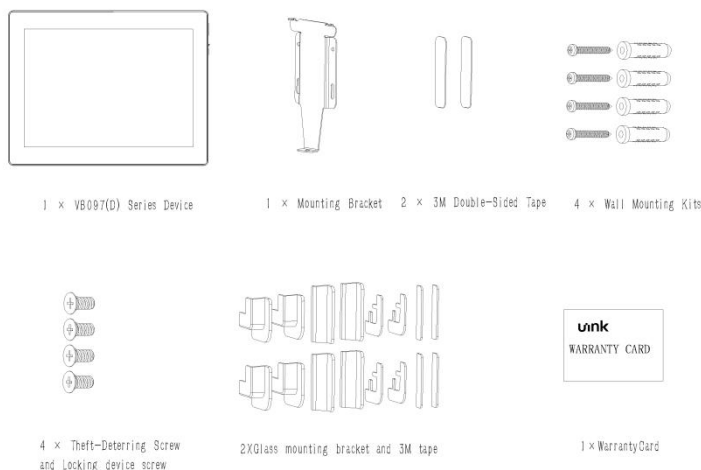
Serial Number	Accessory Name	Quantity	Instructions
1	Electronic Ink Screen Host	1	Contains built-in batteries (rechargeable or disposable, depending on the model)
2	Type-C Cable	1	For power supply or charging (rechargeable models A/B/C)
3	Install the	1	For wall/facade

	backplane		installation
4	Installation Screw Kit	1 set	Includes expansion screws, self-tapping screws, and anti-theft screws
5	3M Double-Sided Tape	2 tablets	Alternative for installation without drilling holes
6	Warranty Card	1	Paper Card
7	Glass mounting bracket and adhesive backing	1 set	Glass/Metal Surface Installation Alternative

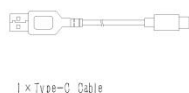
If there are any missing or damaged items, please contact the supplier for replacement.

 *For the complete list of accessories, please refer to: Accessories List*

PackingList



...Only



3. Product Appearance and Dimensions

3.1 Appearance Description

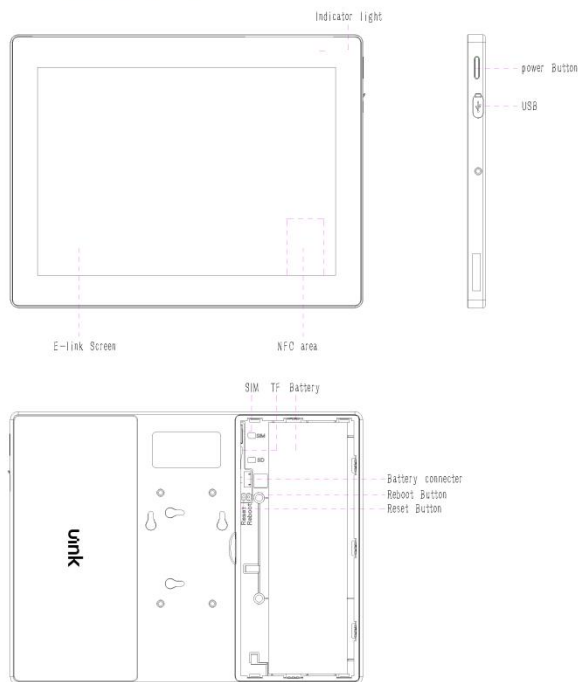
- Front: Electronic ink screen display area
- Back: Install back panel clips, battery compartment
- Side: Power On/Off Button, Type-C Charging/Powering Port

 For detailed dimension drawings, please refer to: *Dimension-related*

 For details on the hardware structure, please refer to: *Hardware Related*



Hardware Overview



4. Indicator Lights and Button Instructions

Equipped with 1 tri-color LED indicator (red/yellow/green) and 1 power on/off button, used to indicate device status and perform basic operations.

4.1 Button Operations

The device has only one physical button (power on/off button), which triggers different functions through different pressing methods:

Operation	method	Function	Lighting effect feedback
Short press	Release within 1 second after pressing	Enter Bluetooth network configuration mode	Yellow light starts to flash slowly (Bluetooth broadcasting)
Double-click	Press twice in succession	Manually refresh the screen content	Green light flashes once
Long press for 3	Press and hold	Power On	The green light turns off 3 seconds after it lights

seconds	until the green/red light comes on, then release		up.
		Shutdown	The red light flashes twice and then goes out

4.2 Indicator Light Description

Color and Blinking Parameters

parameter	Description
Available Colors	Red, Yellow, Green
Flash	On for 500ms, off for 500ms
Slow Flash	On for 2000ms, off for 2000ms

Lighting Effect Summary

Power Supply Category

Light Effect	Meaning	Duration
Green light on for 3s	Power-on successful	Turn off after 3 seconds
Red light flashes twice	Shutdown successful	Flashes and then extinguishes
Red light stays on	Charging	Continues during charging
Green light always on	Fully charged	Turns off after unplugging the power

Distribution Network Category

Light Effect	Meaning	Duration
Yellow Light	Bluetooth broadcasting, waiting for APP	Automatically exit after 5 minutes of timeout

	connection	
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System Operation Class

Light Effect	Meaning	Duration
Red and green flash alternately	Restoring factory settings	The light goes out after the reset is completed

Communication

Light Effect	Meaning	Duration
Green light flashes once	Communication successful	Flashes and then extinguishes

5. Power Supply and Battery

5.1 Power Supply Mode

Power supply mode	Applicable Models	Instructions
Type-C continuous power supply	Full Series	Recommended for long-term use scenarios, rechargeable models charge the battery simultaneously
Rechargeable Battery	VB097A / VB097B / VB097C VC097A / VC097B / VC097C VE100A / VE100B / VE100C	Built-in lithium battery, supports Type-C charging, and can be reused
Disposable Battery	VB097D / VB097E / VB097F VC097D / VB097E / VB097F VE100D / VE100E / VE100F	Replace the battery after it is depleted; it is non-rechargeable

5.2 Battery Replacement (Disposable Battery Models D/E/F)

1. Remove the device from the mounting backplane
2. Open the back battery compartment cover (remove the screw)
3. Remove the old battery, paying attention to the positive and negative directions
4. Insert a new battery and confirm that the buckle is in place
5. Close the battery compartment cover and reinstall the device

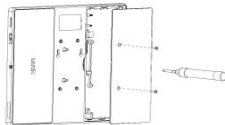
 For the schematic diagram of power supply and battery replacement, please refer to: *Power Supply and Battery Replacement*

Power Supply And Battery Replacement

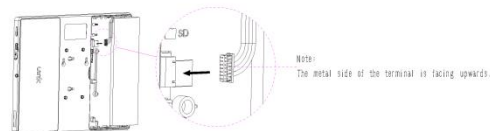
All machines are powered by batteries, which are divided into rechargeable and non-rechargeable types. When the machine's battery runs out of power:

Powered by Non-rechargeable battery (32097...)

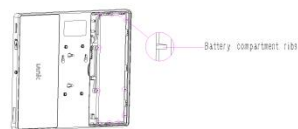
1. Remove the Battery cover, and Remove the old batteries



2. Take a new battery and connect the battery lead terminals to the connector pins of the PCB.



3. Install and fix the battery into the limit rib area of the battery compartment using adhesive tape



4. Lock the battery cover



5.3 Charging Instructions (Rechargeable Battery Models A/B/C)

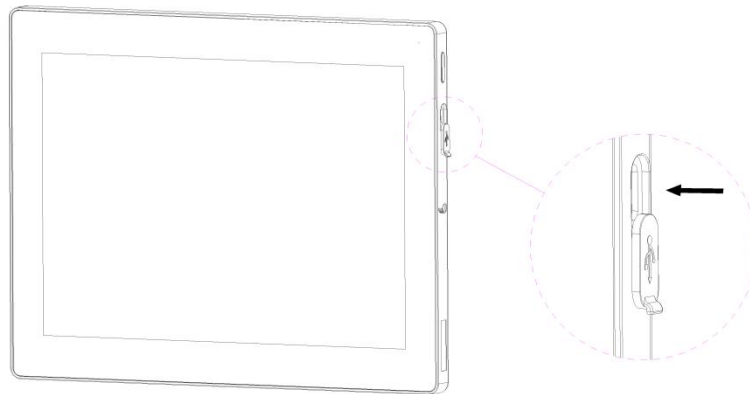
1. Connect the device using the included Type-C cable
2. The device operates normally during charging, without affecting display and communication
3. It is recommended to charge the battery promptly after the low battery warning to avoid complete battery depletion

When the battery is replaced or charging is disconnected, the device will briefly lose power, but the content displayed on the screen will not be lost (a characteristic of e-ink screens). After the device is powered on again, it will automatically connect to the

platform.

Powered by rechargeable battery (VB097...)

Remove the silicone plug and then charge directly via the TYPE-C cable.



6. Equipment Installation

6.1 Installation Method 1: Screw Fixing (Recommended)

 For the installation diagram, please refer to: *Device Installation Instructions 1*

Installation

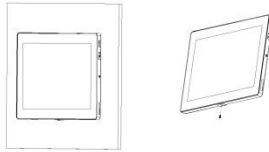
(Installed By Mounting Bracket)

(Mounting Bracket Fixed By screws)

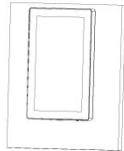
① Fix the wall plugs into the wall, then fix the mounting bracket to the wall plugs with screws



② Put the device on the mounting bracket, then fix the bottom of the device to the bracket with a fixing screw



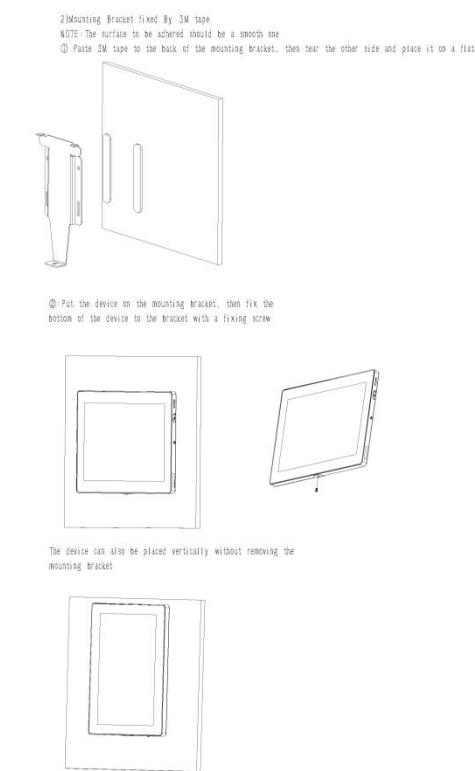
The device can also be placed vertically without removing the mounting brackets (请不要移除及松动支架下，设备可以支持竖置模式)



1. Select the installation location and mark the screw holes of the mounting backplate with a pencil
2. Use a drill to make holes and insert expansion screws
3. Secure the mounting backplate to the wall/door surface with screws
4. Align the device with the backplane buckle, slide it down to lock it in place, and use the anti-theft screws in the installation screw kit to lock the bottom (or side) of the device to the installation backplane together
5. If external power supply is required, connect the Type-C cable and route and secure it

6.2 Installation Method 2: 3M Double-Sided Tape Adhesion

 For the installation schematic diagram, please refer to: *Equipment Installation Instructions 2*



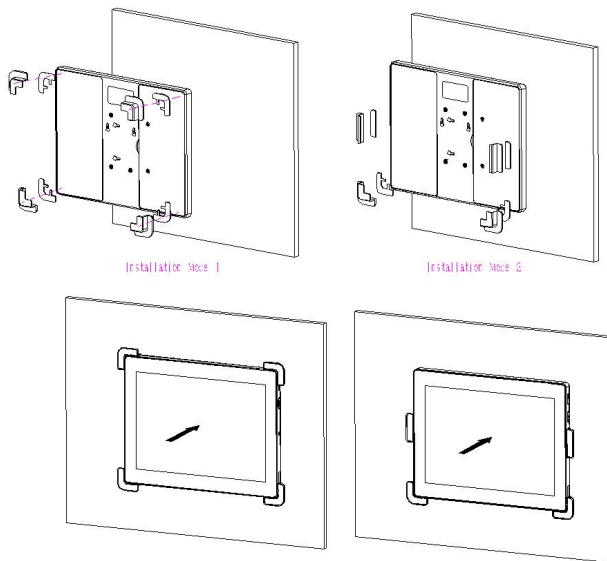
1. Clean the installation surface to ensure it is free of interference, dust, and oil stains
2. Attach 3M double-sided tape to the back of the mounting backplate
3. Peel off the protective film on the adhesive side, press the backplate onto the installation position, and apply firm pressure for 10 seconds to activate the adhesive's stickiness.
4. It is recommended to let it stand for 24 hours, then align the gourd hole on the back of the machine with the buckle on the mounting backplate and slide it down, and use the anti-theft screws in the mounting screw kit to lock the bottom (or side) of the device to the mounting backplate together.
5. If external power supply is required, connect the Type-C cable

6.3 Installation Method 3: Smooth Facade Installation

 For the installation schematic diagram, please refer to: *Device Installation Instructions 3*

2. Install: By Glass mounting bracket

1) Attach the glass mounting bracket to the 3M tape, then attach the bracket to the four corners of the device. Then attach the bracket to the glass. There are two suggested installation methods.



When the glass is smooth and transparent, the displayed content can be seen from the outside.

3. Other installation

Suitable for use on metal or glass facades:

1. Clean the installation surface to ensure it is dry, dust-free, and oil-free
2. Adhere the double-sided tape to the hanger (or first attach one of the hangers to a metal or glass door, and then find the other positions in sequence)
2. Place the hangers at the four corners of the device and assemble them
3. Attach the device and the 4 mounting brackets as a whole to a smooth surface, then press firmly on the mounting brackets (it is recommended to press for no less than 10 seconds) to fully activate the adhesive of the backing tape

7. Device Network Configuration and Activation

7.1 Preparation Work

- Download and install the uink App (iOS / Android)
- Ensure that the phone's Bluetooth is turned on
- Ensure that the Wi-Fi network is available
- If using LoRa communication, the gateway needs to be registered on the platform in advance

- If using Cat.1 cellular communication, please confirm that the SIM card has been installed and activated

7.2 App Account Registration and Login

7.2.1 Select Server

After opening the App for the first time, select the server according to the usage scenario:

Server Type	Applicable Scenarios	Configuration Method
Public Cloud Server	General User	Directly select a region (e.g., Europe, Asia-Pacific)
Private Deployment Server	Enterprise Private Deployment Users	Click and manually enter the platform URL address

7.2.2 Registration and Login

1. Email Registration: Use your email as the unique identifier, enter your email, and then click "Get Verification Code".
2. Verification Code Verification: The system will send a 6-digit verification code to your email. Enter the verification code to complete registration.
3. Set Password: After successful verification, you can set a login password, and subsequently log in directly via "email + password".
4. Compliance Confirmation: Read and check the box to agree to the <User Agreement> before logging in

7.3 Add device via App (core process)

⚠ Please keep your phone's Bluetooth turned on throughout the network configuration process, and ensure that the distance between your phone and the device is within 5 meters. Do not close the App or switch it to the background during the network configuration process, otherwise the network configuration will fail.

Step 1: Turn on the device's network configuration mode

1. Power On: Long press the [Power Button] on the side of the device for 3 seconds, the green indicator light will light up, the screen will flash and display the Logo
2. Confirmation Status: Observe the yellow indicator light on the upper right corner

of the device flashing, indicating that Bluetooth is ready

3.  If the App fails to detect the device, you can long-press the power button for 8 seconds until the indicator light flashes to reactivate Bluetooth.

Step 2: Bluetooth Scanning and Connection

1. On the home page of the App, click "Add Device", the Bluetooth status guide will be displayed at the top, and the list of scanned devices will be displayed in real-time below
2. Click on the target device, enter the "Device Details Page", and you can verify the following information:
 - Device Name
 - Device Model
 - Serial Number (SN)
 - Hardware Version
 - Current firmware version
3. After confirming that everything is correct, click the "Connect" button to establish a Bluetooth connection

Step 3: Network Configuration and Progress Visualization

1. Select Wi-Fi: Choose a 2.4GHz Wi-Fi network and enter the password
 - LoRa Device: Additional Option to Associate with Gateway
 - Cat.1 Device: Confirm SIM Card Status
2. Connection Progress Tracking: The page jumps to the connection progress page, displaying the completion status of three stages:

Phase	Description
① Wi-Fi Connection	Whether the device is successfully connected to the router
② Configuration Write	Whether the distribution network information has been successfully sent to the device
③ Server Connection	Whether the device has successfully connected to the cloud platform

3. Exception handling: If a step fails (e.g., incorrect password, server timeout), the page provides a "Retry" button, eliminating the need to start network configuration from the beginning

Step 4: Naming and Completion

1. After all three connection phases are successfully completed, the system automatically jumps to the naming page
2. Fill in device information:
 - Device nickname (e.g., "Meeting Room A1", "3F-Ward 201")
3. Click "Confirm", the device will be added successfully and can be put into use immediately

After the addition is completed, the device has connected to the network and the server, and the status on the platform is "Connected", allowing immediate operations such as content distribution.

7.4 Batch add via the platform

Suitable for large-scale deployment:

1. Log in to the uink RMS platform
2. Enter the "Device Management" page
3. Click "Batch Import" and upload a CSV file (including device SN, name, model, etc.)
4. LoRa devices need to fill in the associated gateway SN in the CSV
5. After the import is completed, the device status is Inactive, waiting for on-site installation, power-on, and activation

7.5 Reconfigure Network

If the Wi-Fi of the device's usage environment changes, you can quickly reconfigure the network via the App without deleting the device:

1. On the App device details page, click "Network Configuration"
2. Ensure that the phone's Bluetooth is turned on and the device is within Bluetooth range
3. Connect to the device via Bluetooth
4. Select a new Wi-Fi network and enter the password
5. Waiting for the device to reconnect to the network and server

7.6 Equipment Management

7.6.1 Card-style Device List

The App's home page displays the bound devices in the form of cards, with each card containing:

Information Item	Instructions
Screen Preview	Thumbnail of the currently displayed content on the device
Device Name	User-defined nickname for easy and quick identification
Real-time Status	Signal Strength (RSSI), Online/Offline Status, Last Synchronization Time

7.6.2 Content Delivery on the App Side

1. Click on the device card to enter the details page
2. Click "Select Template":
 - My Templates: Saved common template styles
 - Template Library: If "My Templates" is empty, you can add templates from the "Public Template Library" or create them on the Web platform.
3. After selecting a template and confirming, the device receives the instruction and refreshes the screen

7.6.3 App-side Device Operation and Maintenance

In the App device list, click on the device card → "Details" in the upper right corner to perform the following operations:

Operation	Instructions
View basic information	Device model, SN, hardware version, firmware version, supports modifying device name
Network Configuration	When Wi-Fi changes, it can quickly reconfigure the network without deleting the device
Refresh	Force the device to refresh the currently displayed content via Bluetooth
Restart	Trigger device hardware restart via Bluetooth

8. Platform Operation Guide

8.1 Log in to the platform

Access the uink RMS platform, register an account, and log in (the same as on the APP side).

Area	Platform Address
EMEA (Europe)	https://eu.rms.uink.com
China (China)	https://cn.rms.uink.com

8.2 Equipment Management

8.2.1 Device Status Description

Status	Color Identification	Meaning	Allow operation
Inactive (not activated)	Gray	The device has been registered but has never been online	View, Edit, Delete
Online (Already Online)	Green	Device is online, heartbeat is normal	All Operations
Offline	Red	The device was once online but currently cannot communicate	View, Edit, Delete, Issue (Enqueue)
Error (Exception)	Orange	The device has encountered an anomaly and requires manual intervention	View, Edit, Delete, Issue (Enqueue)
Revoked (Invalid)	Gray semi-transparent	The device has been forcibly taken over by another user	Rebind, Delete

8.2.2 Device Details

Click on a device in the device list, and the right drawer will display:

- Basic Information: SN, Name, Model, Installation Direction, Firmware Version
- Device Status: Battery, Signal, Status
- Recently pushed content: thumbnail preview
- Recent task record: Pending tasks to be issued

8.3 Template Management

8.3.1 Create Template

1. Enter "Template Management" → "My Templates"
2. Click "+ New Template"
3. Select the target device model (e.g., VB097, the canvas automatically adapts to 960×672 resolution)
4. Edit templates using the visual designer, supporting the following components:
 - Text: Customize font, size, color, alignment
 - Image: Upload
 - QR Code: Automatically generated based on input content
 - Rectangle: Background color block, Separator line
5. Save Template

8.3.2 Public Template Library

The platform provides pre-set official templates that can be directly added to "My Templates" for use:

- Office Door Sign - Basic (Office Doorplate)
- Hospital Bed Card (床头卡)
- Meeting Room Door Sign (Conference Room Doorplate)

8.3.3 Binding and Distribution

1. Click "Push" on the template card
2. Select target devices (supports multiple selection)
4. Confirm and issue

9. Frequently Asked Questions and Troubleshooting

9.1 The device cannot be activated (always shows Inactive)

- Confirm that the device is powered on
- Check if the Wi-Fi network configuration (SSID and password) is correct
- LoRa device checks whether the gateway is online and whether the device has been associated with the gateway
- Cat.1 device checks whether the SIM card is functioning properly
- Try to reconfigure the network via the App's Bluetooth

9.2 Device frequently goes offline

- Check the Wi-Fi signal strength to ensure that the signal is good at the device installation location
- LoRa device checks the distance to the gateway and obstacles
- Switching ≥ 3 times within 10 minutes will trigger the "network instability" alarm

9.3 Screen not updated after content delivery

- Check if the device status is Connected
- Try "force refresh" to clear the afterimage and then reissue

9.4 Device is displayed as Revoked (invalid)

- The device has been forcibly taken over by another user
- Processing Method:
 - Rebind: Connect via Bluetooth on-site using the App and forcefully take it back over
 - Delete Device: Confirm to clear all historical data

9.5 Device Reset

- Soft Reset: Long press the reset button inside the battery compartment, and the device will restore to factory settings
- Hard reset/Power cycle restart: The device automatically connects to the platform after being powered on again

After a soft reset, the device will clear all data and needs to be reconfigured for the network via the App and added to the platform.

10. Technical Specifications

parameter	Specification
Screen Type	Electronic Ink Screen (E-Ink)
Screen Resolution	960 × 672 pixels
PPI	121
Display Color	Black and White (BW)
Communication Method	Wi-Fi / LoRa / Cat.1 (by model)
Near Field Configuration	BLE + NFC (standard across the entire series)
Power supply mode	Type-C Power Supply / Rechargeable Batteries (A/B/C) / Disposable Batteries (D/E/F)
Installation Direction	0° / 90° / 180° / 270°
Operating Temperature	0°C ~ 40°C
Installation Method	Screw Fixing / Bracket Installation / Support Installation

parameter	Specification
Screen Type	Electronic Ink Screen (E-Ink)
Screen Resolution	960 × 672 pixels
PPI	121
Display Color	Four Colors (Black, White, Red, Yellow)
Communication Method	Wi-Fi / LoRa / Cat.1 (by model)
Near Field Configuration	BLE + NFC (standard across the entire series)

Power supply mode	Type-C Power Supply / Rechargeable Batteries (A/B/C) / Disposable Batteries (D/E/F)
Installation Direction	0° / 90° / 180° / 270°
Operating Temperature	0°C ~ 40°C
Installation Method	Screw Fixing / Bracket Installation / Support Installation

parameter	Specification
Screen Type	Electronic Ink Screen (E-Ink)
Screen Resolution	1600 × 1200 pixels
PPI	200
Display Color	Full Color
Communication Method	Wi-Fi / LoRa / Cat.1 (by model)
Near Field Configuration	BLE + NFC (standard across the entire series)
Power supply mode	Type-C Power Supply / Rechargeable Batteries (A/B/C) / Disposable Batteries (D/E/F)
Installation Direction	0° / 90° / 180° / 270°
Operating Temperature	0°C ~ 50°C
Installation Method	Screw Fixing / Bracket Installation / Support Installation

11. Contact and Support

For technical support, please contact: support@uink.com

- Platform Address: <https://cn.rms.uink.com>
- RMS App:
 - iOS: App Store 搜索 uink RMS
 - <https://apps.apple.com/us/app/uink-rms/id6756906628>
 - Android: Google Play 搜索 uink RMS
 - <https://play.google.com/store/apps/details?id=com.uink.rms>
- Official Website Address: <https://www.uink.com/>

This document is written based on the uink RMS V1.2.0 platform