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OBO HANDS V7024B1

OBO HANDS V7024B1 2-Wire WiFi Video Intercom System User Manual

Model: V7024B1

1. PRODUCT OVERVIEW

The OBO HANDS V7024B1 is a 2-wire WiFi video intercom system designed for home security and access control. It features a 1080P doorbell camera, a 7-inch indoor touch screen monitor, and supports remote access via the Tuya app, RFID card unlocking, night vision, and motion detection.



Image 1.1: The OBO HANDS V7024B1 system, showing the indoor monitor, outdoor doorbell unit, and a 32GB MicroSD card.

2. KEY FEATURES

- **Simple 2-Wire Installation:** Designed for easy setup, reducing wiring complexity.
- **Remote WiFi Access:** View live video and communicate with visitors from your smartphone via the Tuya app.
- **Automatic Door Opening:** Remotely unlock doors or gates through the mobile application.
- **HD Camera with Night Vision:** Provides clear 1080P video calls and continuous monitoring, even in low-light

conditions with infrared night vision.

- **Motion Detection:** Receive real-time notifications on your phone when motion is detected near the outdoor unit.
- **Multiple Unlock Methods:** Supports unlocking via the Tuya app, indoor monitor touch screen, and RFID cards.
- **Smart Home Integration:** Compatible with various smart home devices for enhanced automation.
- **IP65 Waterproof Outdoor Unit:** Durable design for outdoor use, resistant to dust and water.
- **Video Playback and Recording:** Records visitor calls and motion events, viewable on the monitor or app, with a 32GB TF card included.

3. PACKAGE CONTENTS

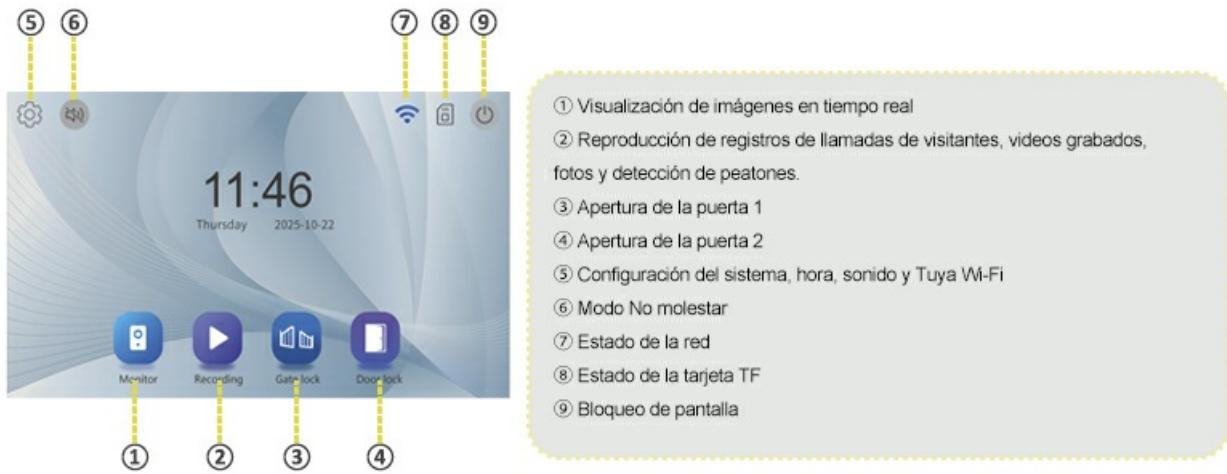
Please check the package contents upon receipt to ensure all items are present:

- Indoor Monitor (7-inch Touch Screen)
- Outdoor Doorbell Camera Unit
- Power Adapter (DC15V)
- Mounting Bracket and Screws
- Wiring Connectors
- RFID Cards (for unlocking)
- 32GB TF Card
- User Manual

4. SETUP AND INSTALLATION

4.1 Wiring Diagram

The system utilizes a 2-wire connection for simplified installation. Ensure power is disconnected before wiring.



① Ajuste el volumen del intercomunicador y el brillo de la pantalla de la unidad interior.
 ② Grabación manual de video
 ③ Captura manual de fotos
 ④ Apertura de la cerradura 1
 ⑤ Contestar llamada
 ⑥ Finalizar llamada/Salir de la vigilancia
 ⑦ Apertura de la cerradura 2



Image 4.1: Wiring connections for the indoor monitor, outdoor unit, and DC15V power supply.

4.2 Physical Installation

- Mount the Outdoor Unit:** Choose a suitable location near your door or gate, ensuring it is within reach of the 2-wire connection. The unit is IP65 waterproof, suitable for outdoor exposure.
- Mount the Indoor Monitor:** Install the indoor monitor at a convenient height inside your home.
- Connect Wiring:** Connect the 2-wire cable between the outdoor unit and the indoor monitor. Connect the DC15V power adapter to the indoor monitor.
- Power On:** Once all connections are secure, plug in the power adapter to power on the system.

4.3 App Setup (Tuya)

- Download the Tuya Smart app from your smartphone's app store.
- Register or log in to your Tuya account.
- Follow the in-app instructions to add your OBO HANDS V7024B1 video intercom system. This typically involves putting the indoor monitor into pairing mode and connecting it to your home WiFi network.

5. OPERATING INSTRUCTIONS

5.1 Indoor Monitor Interface

The 7-inch touch screen monitor provides intuitive control over the system. Below is an explanation of the main interface elements:



Image 5.1: Indoor monitor interface with key functions labeled.

- **Monitor:** View live feed from the outdoor camera.
- **Recording:** Access recorded videos and photos.
- **Gate Lock:** Unlock the gate.
- **Door Lock:** Unlock the main door.
- **Settings Icon:** Adjust system settings, time, sound, and WiFi.
- **Do Not Disturb Icon:** Activate/deactivate silent mode.
- **Network Status Icon:** Indicates WiFi connection status.
- **TF Card Status Icon:** Shows if the TF card is inserted and functioning.
- **Power Icon:** Power on/off or standby.

5.2 Door Unlocking Methods

The system offers multiple ways to grant access:

Multiple Door Opening Methods



Smart Tuya APP Unlock



Touch Indoor Monitor Unlock



RFID Cards Unlock

Image 5.2: Various methods for unlocking doors with the system.

- **Smart Tuya App Unlock:** Use the Tuya app on your smartphone to remotely unlock the door or gate.
- **Touch Indoor Monitor Unlock:** Tap the 'Door Lock' or 'Gate Lock' icon on the indoor monitor's touch screen.
- **RFID Cards Unlock:** Present a pre-programmed RFID card to the outdoor doorbell unit to unlock the door. The outdoor unit supports up to 1000 users, managed via an Admin Card.

5.3 Motion Detection

The outdoor unit features motion detection to enhance security. When motion is detected, the system can:

Motion Detection

Real-time notifications to your phone



Image 5.3: Motion detection triggering a smartphone notification.

- Send real-time notifications to your smartphone via the Tuya app.
- Automatically record video footage of the event to the inserted TF card.

5.4 Night Vision

The outdoor doorbell camera is equipped with infrared night vision, providing clear visibility even in complete darkness.

Infrared Night Vision



Image 5.4: Day and night views demonstrating infrared night vision.

5.5 Video Playback and Recording

The system automatically records video of visitor calls and motion-triggered events to the included 32GB TF card. You can review these recordings:

Video Playback/Photo Viewing

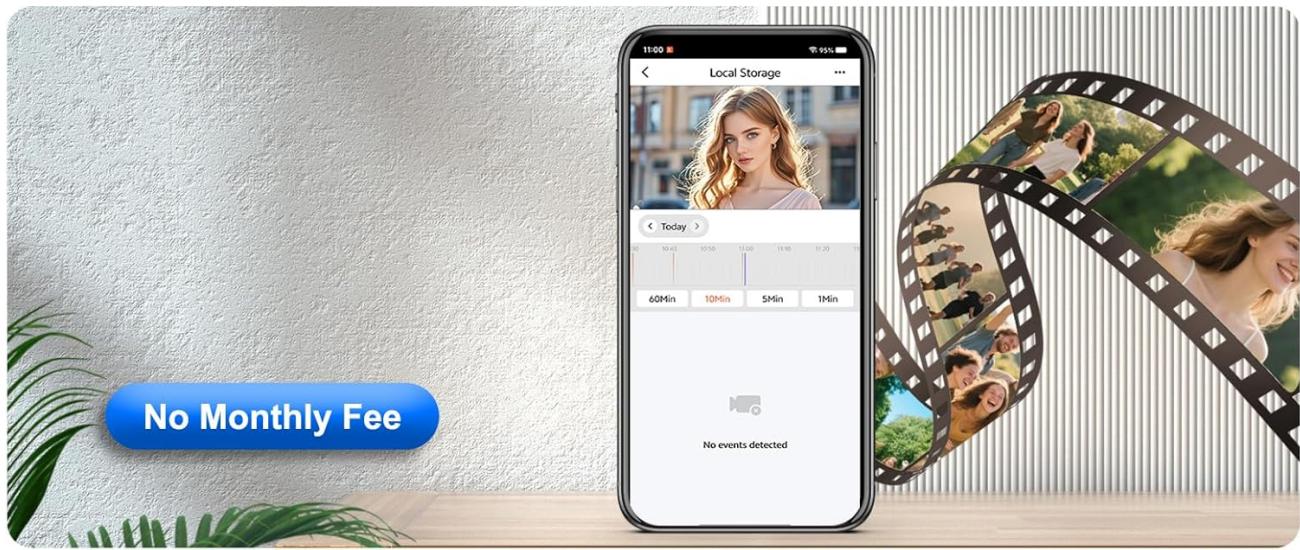
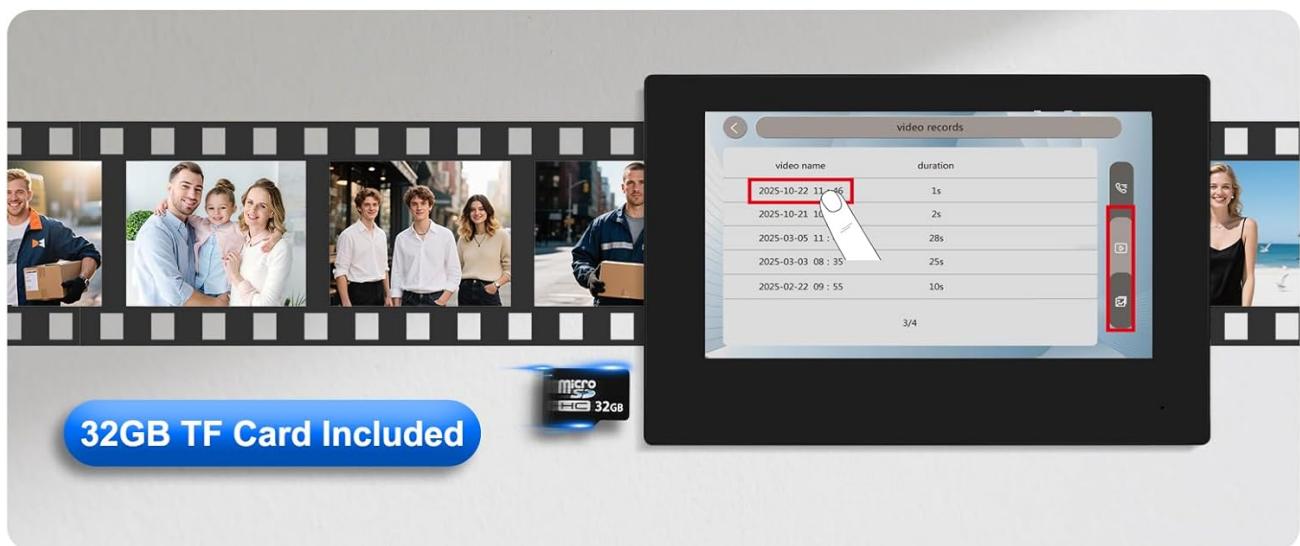


Image 5.5: Accessing recorded videos and photos on the monitor and smartphone app.

- On the indoor monitor by navigating to the 'Recording' section.
- Through the Tuya app on your smartphone, accessing the local storage or cloud recordings (if applicable).

5.6 Controlling Multiple Doors

The system is capable of controlling two separate access points, such as a main door and a gate, directly from the indoor monitor.



Image 5.6: System controlling two separate door locks.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the indoor monitor and outdoor unit. Avoid abrasive cleaners or solvents.
- **Firmware Updates:** Periodically check for firmware updates through the Tuya app to ensure optimal performance and security.
- **TF Card Management:** Regularly back up important recordings and format the TF card to maintain recording capacity.
- **Environmental Protection:** While the outdoor unit is IP65 waterproof, avoid direct high-pressure water jets. Ensure proper installation to prevent water accumulation.

7. TROUBLESHOOTING

- **No Power to Monitor:** Check the power adapter connection and ensure the power outlet is functional.
- **No Video from Outdoor Unit:** Verify the 2-wire connection between the outdoor unit and the indoor monitor. Ensure the outdoor unit is receiving power.
- **No WiFi Connection:** Ensure your home WiFi network is active and the password entered in the Tuya app is correct. Try restarting the indoor monitor and your router.
- **Door Unlock Not Working:** Check wiring to the lock mechanism. Ensure the lock is compatible with the system's output. Verify RFID cards are correctly programmed.
- **Poor Night Vision:** Ensure the outdoor unit's infrared LEDs are not obstructed. Clean the camera lens.
- **Motion Detection Not Triggering:** Adjust motion detection sensitivity settings in the app. Ensure the detection area is correctly configured.

8. SPECIFICATIONS



Image 8.1: Product dimensions for installation planning.

Feature	Detail
Manufacturer	OBO AHNDS
Model Number	V7024B1
Indoor Monitor Dimensions	Approx. 19 x 13 cm (7-inch screen)
Outdoor Unit Dimensions	Approx. 6.3 x 13.3 cm
Product Weight	1 kg (total)
Color	Black
Wiring	2-Wire System
Camera Resolution	1080P

Feature	Detail
Display	7-inch Touch Screen
Connectivity	WiFi, Tuya App
Unlock Methods	App, Monitor Touch, RFID Cards
Storage	32GB TF Card (included)
Night Vision	Infrared
Motion Detection	Supported
Waterproof Rating	IP65 (Outdoor Unit)
Operating Temperature	-30°C to +60°C

9. SUPPORT

For any questions or concerns regarding your OBO HANDS V7024B1 video intercom system, please contact our support team:

- **WhatsApp Support:** +86 177 2255 8183 (Available 24/7)