NJBVRS UFace402

NJBVRS UFace402 Biometric Time Attendance and Access Control System User Manual

Model: UFace402 | Brand: NJBVRS

1. Product Overview

The NJBVRS UFace402 is an advanced biometric system designed for employee time attendance and door access control. It integrates fingerprint and facial recognition technologies to provide secure and efficient user verification. This system is suitable for small businesses and offices, offering features such as high verification speed, multi-language support, and an intuitive user interface.

Figure 1: Front view of the NJBVRS UFace402 Biometric Time Attendance and Access Control System, showing the display screen, keypad, and fingerprint scanner.

Key Features:

- Supports 3,000 face templates and 4,000 fingerprint templates.
- Multi-language support for diverse user environments.
- High-speed verification for quick and efficient access.

- Advanced and user-friendly interface.
- Optional built-in battery backup, providing approximately 4 hours of continuous operation.
- Ability to detect real faces versus photos for enhanced security.

2. Setup and Installation

2.1 Package Contents

Before installation, verify that all components are present in the package:

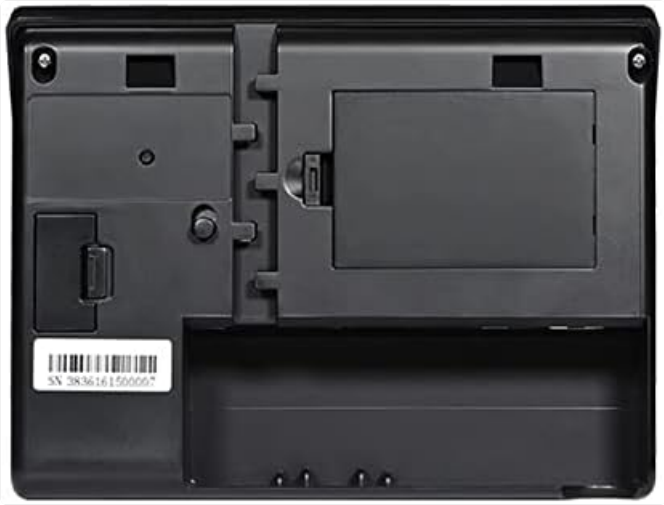

Figure 2: Illustration of the package contents, including the uFace401/402 device, back plate, power adapter, access control interface lines, mounting paper, screws and holders, screwdriver, and paper ruler.

- UFace402 Time Attendance Device (x1)
- Back Plate (x1)
- Power Adapter (x1)
- Lines for Access Control Interface (x1 set)
- Mounting Paper (x1)
- Screws and Holders (x1 set)
- Screwdriver (x1)
- Paper Ruler (x1)

2.2 Device Mounting

1. **Select Location:** Choose a suitable indoor location, away from direct sunlight and strong electromagnetic interference. Ensure the mounting height allows for comfortable facial and fingerprint scanning for all users.
2. **Use Mounting Paper:** Affix the mounting paper to the wall at the desired height.
3. **Drill Holes:** Drill holes according to the markings on the mounting paper. Insert the plastic holders into the drilled holes.
4. **Attach Back Plate:** Secure the back plate to the wall using the provided screws.
5. **Mount Device:** Carefully attach the UFace402 device onto the back plate.

2.3 Wiring and Connections

The UFace402 supports various connections for power, network, and access control. Refer to the diagram below for typical wiring configurations.

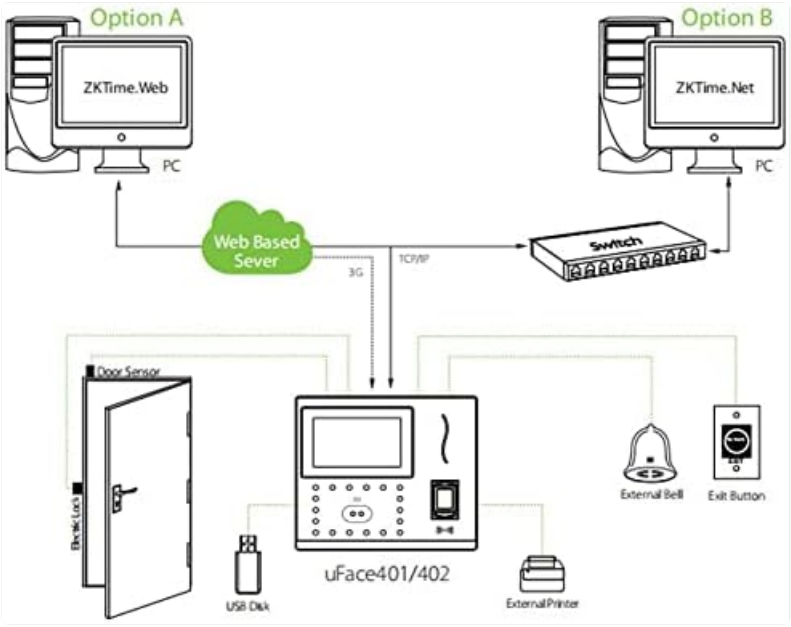

Figure 3: Wiring diagram illustrating connections for the uFace401/402 device, including power, USB disk, external printer, door sensor, electric lock, external bell, exit button, and network connections (TCP/IP, Web-Based Server, ZKTime.Web, ZKTime.Net).

- **Power Supply:** Connect the 12V3A power adapter to the device and a power outlet.
- **Network Connection:** Connect an Ethernet cable to the TCP/IP port for network communication. The device can integrate with web-based servers like ZKTime.Web or ZKTime.Net.
- **Access Control:** Connect to third-party electrical lockouts, door sensors, and exit buttons using the provided access control interface lines.
- **Optional Peripherals:** Connect a USB disk for data transfer, an external printer, or an extendable programmed bell as needed.

Figure 4: Rear view of the NJBVRS UFace402 device, showing the battery compartment and serial number label.

If using the optional backup battery, ensure it is correctly installed in the designated compartment on the rear of the device. The battery provides approximately 4 hours of continuous operation during power outages.

3. Operating Instructions

3.1 Initial Power-On and System Configuration

1. **Power On:** After connecting all necessary cables, plug in the power adapter. The device will boot up, and the display screen will show the main interface.
2. **Administrator Setup:** The first user registered should be an administrator to manage system settings and user

registrations.

3. **Date and Time:** Configure the correct date and time settings through the system menu.
4. **Network Settings:** If using TCP/IP, configure the IP address, subnet mask, and gateway settings to ensure proper network communication.

3.2 User Registration

The UFace402 supports facial, fingerprint, and optional card (RFID/MIFARE) registration.

Figure 5: The NJBVRS UFace402 device demonstrating an optional card being scanned for user authentication or registration.

1. **Access Menu:** As an administrator, access the main menu.
2. **Add User:** Select "User Management" then "Add User".
3. **Register Face:** Follow the on-screen prompts to position the user's face correctly in front of the camera. The device will capture multiple images for accurate registration. Ensure good lighting and avoid strong backlighting. The system is designed to detect real faces, enhancing security.
4. **Register Fingerprint:** Place the user's finger firmly on the fingerprint sensor. The device will prompt for multiple scans of the same finger to create a robust template.
5. **Register Card (Optional):** If using RFID or MIFARE cards, present the card to the designated reader area when prompted.
6. **Assign Privileges:** Assign user roles (e.g., administrator, general user) and access permissions.

3.3 Time Attendance and Access Control

Users can clock in/out or gain access using their registered biometrics or cards.

Figure 6: The NJBVRS UFace402 display screen showing the current time and a "Check-in" status, indicating readiness for attendance recording.

- **Facial Recognition:** Stand approximately 30-80 cm (12-31 inches) in front of the device. The camera will automatically detect and verify the face.
- **Fingerprint Recognition:** Place the registered finger on the sensor. The device will verify the fingerprint.
- **Card Recognition:** Present the registered card to the card reader.
- Upon successful verification, the device will display a confirmation message, record the attendance event, or unlock the connected door.

4. Maintenance

4.1 Cleaning the Device

- Regularly clean the display screen, camera lens, and fingerprint sensor with a soft, dry, lint-free cloth.
- Do not use abrasive cleaners, solvents, or spray liquids directly onto the device.

4.2 Data Management

- **Backup Data:** Periodically back up attendance records and user data to a USB disk or through the network software to prevent data loss.
- **Data Export:** Export attendance logs for payroll processing or record-keeping as needed.
- **Firmware Updates:** Check the manufacturer's website for available firmware updates to ensure optimal performance and security.

5. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	No power supply or faulty adapter.	Check power connection. Ensure adapter is correctly plugged in and functional. Verify power outlet.
Facial recognition fails frequently.	Poor lighting, incorrect face position, or dirty camera lens.	Ensure adequate, even lighting. Position face correctly within the frame. Clean the camera lens. Re-register face if necessary.
Fingerprint recognition fails frequently.	Dirty or damaged sensor, wet/damaged finger, or incorrect placement.	Clean the fingerprint sensor. Ensure finger is dry and clean. Place finger firmly and completely on the sensor. Re-register fingerprint if necessary.
Device cannot connect to network.	Incorrect network settings, faulty cable, or network issue.	Verify IP address, subnet mask, and gateway settings. Check Ethernet cable connection. Consult network administrator.
Door does not unlock after successful verification.	Wiring issue with access control, faulty lock, or incorrect access permissions.	Check wiring to the electric lock and exit button. Verify user's access permissions. Test the electric lock independently.

6. Product Specifications

Feature	Detail
CPU	Multi-bio CPU 630MHz
Memory	256M FLASH, 64M SDRAM
Hardware Platform	Zmm220 Multi-medium development platform
Fingerprint Sensor	Film Free Optical Fingerprint Sensor
Camera	High resolution infrared camera
Display	4.3 inch TFT touch screen
Face Capacity	3000 (1:N)
Fingerprint Capacity	4000
Card Capacity	10000 (optional)
Records Capacity	100,000
Algorithm Version	Face 7.0 and Finger 10.0
Backup Battery	2000mAh (optional, approx. 4 hours operation)
Access Control Interfaces	For 3rd Party Electrical Lockout, Door Sensor, Exit Button
Wiegand Signal	Output
Optional Functions	Serial printer, RFID Card, MIFARE card, Extendable programmed bell, Short Message, Web Server, GPRS
Power Supply	12V3A
Verification Speed	≤ 2 seconds
Operating Temperature	0°C - 45°C (32°F - 113°F)
Operating Humidity	20% - 80%
Product Dimensions	0.79"W x 0.39"H (Note: This dimension appears unusually small and may refer to a specific component rather than the overall device.)
Item Weight	1000 Grams (2.2 pounds)

7. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official NJBVRS website. Keep your purchase receipt as proof of purchase for warranty claims.

Manufacturer: NJBVRS
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