Cummins JetScan IFX i101

Cummins JetScan IFX i101 User Manual

Model: JetScan IFX i101
Brand: Cummins

1. INTRODUCTION

Welcome to the user manual for the Cummins JetScan IFX i101. This document provides comprehensive instructions for the setup, operation, and maintenance of your new currency and check processing machine. The JetScan IFX i101 is designed for high-speed, accurate processing of checks and mixed bills, featuring advanced counterfeit detection and image capture capabilities. Please read this manual thoroughly before operating the device to ensure safe and efficient use.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the device:

- Ensure the device is placed on a stable, level surface.
- Connect the power cord to a grounded electrical outlet of the correct voltage.
- Do not operate the machine with wet hands or in damp environments.
- Keep fingers, hair, and loose clothing away from moving parts during operation.
- Unplug the device before cleaning or performing any maintenance.
- Do not attempt to open or repair the device yourself. Refer all servicing to qualified personnel.
- Use only genuine Cummins-Allison replacement parts and accessories.

3. PACKAGE CONTENTS

Upon unpacking, verify that all the following items are included:

- Cummins JetScan IFX i101 Unit
- Power Cord
- USB Cable
- User Manual (this document)
- Cleaning Kit (may vary by package)

If any items are missing or damaged, please contact your supplier or Cummins-Allison customer support

immediately.

4. Product Overview

Familiarize yourself with the main components of your JetScan IFX i101:

Figure 4.1: Front View. This image shows the front of the JetScan IFX i101, highlighting the input hopper at the top, the display screen, and the output stackers at the bottom. The design is compact and optimized for efficient document and currency handling.

Figure 4.2: Detailed Front View. A closer frontal view of the JetScan IFX i101, emphasizing the feed rollers and the path for checks and bills. The central display screen is visible above the processing area.

Figure 4.3: Side View. This side view illustrates the ergonomic and space-saving design of the JetScan IFX i101. It highlights the smooth contours and the overall footprint of the device.

Figure 4.5: Rear View. The rear panel of the JetScan IFX i101, displaying various connectivity options including COM1, Video, USB, and Ethernet ports. The main power switch is located on the right side, and product labels with model and serial information are visible.

Key Components:

- **Input Hopper:** Where checks and bills are placed for processing.
- **Output Stackers:** Where processed items are collected.
- **Display Screen:** Provides operational information, menus, and error messages.
- **Control Panel:** Buttons and navigation for operating the device.
- **Connectivity Ports:** USB, Ethernet, COM ports for connecting to external systems.
- **Power Switch:** Turns the device on/off.

5. SETUP

Follow these steps for the initial setup of your JetScan IFX i101:

1. **Unpacking:** Carefully remove the unit and all accessories from the packaging. Retain the packaging for future transport or storage.

2. **Placement:** Place the JetScan IFX i101 on a sturdy, flat, and stable surface with adequate ventilation. Ensure there is enough space around the unit for operation and maintenance.

3. **Power Connection:** Connect the power cord to the power input on the rear of the unit, then plug the

other end into a grounded electrical outlet.

4. **Connectivity (Optional):** If connecting to a computer or network, use the appropriate USB or Ethernet cable to connect the device to your PC or network.

5. **Power On:** Flip the main power switch located on the rear of the unit to the 'ON' position. The display screen will illuminate, and the device will perform a self-test.

6. **Initial Configuration:** Follow the on-screen prompts to set up basic parameters such as language, date, and time. Refer to the software manual for detailed configuration of specific processing modes.

6. OPERATING INSTRUCTIONS

The JetScan IFX i101 offers various modes for processing checks and currency.

6.1. Check Scanning and Image Capture

This mode allows for high-speed processing and imaging of checks and other deposit items.

1. Ensure the device is powered on and in the appropriate check scanning mode (selected via the display menu).

2. Fan and align the checks to be processed, ensuring they are free from staples, paper clips, or tears.

3. Place the stack of checks neatly into the input hopper, face up and aligned with the guides.

4. Press the 'Start' button on the control panel or the display. The machine will begin feeding and scanning checks.

5. Processed checks will be directed to the output stackers. Monitor the display for any messages or errors.

6. Once processing is complete, review the batch summary on the display and remove the checks from the output stackers.

6.2. Mixed Bill Processing and Denomination

This function allows for rapid counting and denomination of mixed currency bills, including counterfeit detection.

1. Select the mixed bill processing mode from the main menu.

2. Straighten and fan the bills, ensuring they are not folded or crumpled. Mixed denominations can be placed together.

3. Place the stack of bills into the input hopper, ensuring they are aligned.

4. Press the 'Start' button. The machine will feed, count, and denominate each bill.

5. The display will show the total count and value, along with a breakdown by denomination.

6. If a suspicious bill is detected, the machine will stop, and an alert will appear on the screen. Remove the suspect bill and press 'Continue' to resume.

6.3. Counterfeit Detection

The JetScan IFX i101 employs advanced sensors and software to identify counterfeit currency during processing.

- Counterfeit detection is active by default in mixed bill processing mode.

- The machine analyzes each bill for magnetic ink, ultraviolet features, infrared patterns, and other security elements.

- Upon detection of a suspect bill, the machine will halt, and an audible alert may sound. The display will indicate the reason for the stop (e.g., "Suspect Bill").
- Remove the suspect bill from the output stacker or reject pocket (if applicable). Do not attempt to re-process the same suspect bill without further verification.
- Press 'Continue' to resume processing the remaining bills.

7. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your JetScan IFX i101.

7.1. Cleaning Procedures

Dust and debris can accumulate inside the machine, affecting performance. Clean the unit regularly.

- **Frequency:** Clean the machine after every 8 hours of continuous operation or as needed based on usage.
- **Power Off:** Always turn off and unplug the machine before cleaning.
- **Exterior:** Wipe the exterior surfaces with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Interior:** Open the access covers (refer to the specific instructions in the full manual for your model). Use a soft brush or compressed air to remove dust and paper particles from the feed path, sensors, and rollers.
- **Sensors:** Gently wipe the optical sensors with a lint-free cloth moistened with isopropyl alcohol.
- **Rollers:** Clean the rubber rollers with a damp cloth or a specialized rubber cleaner to maintain their grip.

7.2. Routine Checks

- Periodically inspect the power cord for any signs of damage.
- Ensure all cables are securely connected.
- Check for any unusual noises during operation, which may indicate a need for professional servicing.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your JetScan IFX i101. For problems not listed here, contact customer support.

Problem	Possible Cause	Solution
Machine does not power on.	Power cord not connected; Power outlet faulty; Power switch off.	Ensure power cord is securely plugged in; Try a different outlet; Turn power switch to 'ON'.
Bills/Checks jam frequently.	Items not fanned/aligned properly; Worn rollers; Dust/debris in feed path.	Fan and align items before placing in hopper; Clean rollers; Clean feed path and sensors.
Inaccurate counts or denominations.	Dirty sensors; Worn rollers; Software calibration needed.	Clean all sensors and rollers; Consult manual for calibration steps or contact support.

Problem	Possible Cause	Solution
Counterfeit bills not detected.	Dirty sensors; Outdated software.	Clean counterfeit detection sensors; Check for software updates.
Display shows an error code.	Specific internal issue.	Refer to the full user manual for a list of error codes and their solutions, or contact technical support.

9. SPECIFICATIONS

Technical specifications for the Cummins JetScan IFX i101:

Feature	Detail
Model Name	JetScan IFX i101
Product Dimensions (L x W x H)	12 x 13 x 9 inches
Item Weight	32 pounds
Manufacturer	Cummins-Allison
Country of Origin	USA
Scanner Type	Document
Connectivity Technology	USB, Ethernet
Resolution	600 DPI
Wattage	90 watts
Sheet Size	Letter (for checks/documents)
Color Depth	48 Bits
Check Processing Speed	Up to 400 items per minute
Mixed Bill Processing Speed	Up to 1,600 mixed bills per minute

10. WARRANTY AND SUPPORT

For information regarding product warranty, service, or technical support, please refer to the warranty card included with your product or visit the official Cummins-Allison website. You may also contact their customer service department directly for assistance with troubleshooting, parts, or repairs.

Contact Information: Please refer to the Cummins-Allison official website or your purchase documentation for the most current contact details.