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Zebra 220XI4

Zebra 220XI4 Industrial Printer User Manual

Model: 220XI4

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1. INTRODUCTION

The Zebra 220XI4 Industrial Printer is a robust and high-performance tabletop printer designed for demanding environments. It supports both direct thermal and thermal transfer printing methods, capable of producing labels up to 8.5 inches wide at a resolution of 300 dpi. Equipped with a 32-bit 133 MHz RISC processor, it ensures efficient processing for high-volume printing tasks. The printer features a durable 12-gauge steel frame, a clear media side door for supply monitoring, and a graphical LCD display for user interaction.

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your Zebra 220XI4 printer to ensure optimal performance and longevity.

2. SETUP

2.1 Unpacking and Inspection

Carefully remove the printer from its packaging. Verify that all components are present and undamaged. The box should contain:

- One (1) Zebra 220XI4 Industrial Printer
- One (1) North American Power Cord

If any items are missing or damaged, contact your supplier immediately.

2.2 Printer Placement

Place the printer on a stable, level surface in a well-ventilated area. Ensure adequate space around the printer for media loading, maintenance, and proper airflow. Avoid locations with excessive dust, humidity, or direct sunlight.

2.3 Media and Ribbon Loading

The 220XI4 printer supports various media types including black mark, continuous, roll-fed, die-cut, and fanfold.

Media thickness can range from 0.003" (0.076 mm) to 0.012" (0.305 mm).



Figure 1: Internal view of the Zebra 220X14 printer with the top cover open, illustrating the media and ribbon loading paths. The image highlights the spindle for the ribbon and the adjustable guides for label media.

1. Open the clear media side door and the top cover of the printer.

2. For thermal transfer printing, load the ribbon onto the supply spindle, ensuring it unwinds correctly.
3. Load the label media roll onto the media supply spindle.
4. Thread the media through the printer mechanism, ensuring it passes under the print head and through the media guides.
5. Adjust the media guides to fit the width of your labels.
6. Close the top cover and the clear media side door.
7. The printer will perform an auto-calibration to detect the media type and length.

2.4 Power Connection

Connect the provided power cord to the printer's power inlet and then to a grounded electrical outlet. The printer supports a universal power supply (90 to 264 VAC, 48 to 62 Hz).

2.5 Connectivity

The Zebra 220X14 offers multiple connectivity options for integration into your system.



Figure 2: Rear panel of the Zebra 220X14 printer, displaying the serial (RS-232), bi-directional parallel, and USB 2.0 ports, along with the power inlet and switch.

- **USB 2.0:** Connect the printer to your computer using a standard USB cable.
- **Serial (RS-232):** For serial communication, connect a compatible serial cable.
- **Bi-directional Parallel:** Use a parallel cable for this connection type.
- **Ethernet (Optional):** The printer may include an optional 10/100 Ethernet port for network connectivity.

After connecting the printer, install the necessary drivers on your computer. Refer to the Zebra website for the latest driver downloads.

3. OPERATING INSTRUCTIONS

3.1 Powering On/Off

- To power on, press the power switch located on the rear of the printer.
- To power off, press the power switch again. Always ensure no print jobs are active before powering off.

3.2 Using the LCD Display

The printer features a 240 x 128 pixel graphical, backlit LCD display. Use the navigation buttons adjacent to the display to access and configure printer settings, monitor status, and view error messages. The menus are multilingual and customizable.

3.3 Basic Printing

1. Ensure the printer is powered on and connected to your computer or network.
2. Load the appropriate media and ribbon (if thermal transfer).
3. From your application, select the Zebra 220XI4 printer.
4. Configure print settings such as label size, orientation, and quantity.
5. Initiate the print job. The printer will automatically calibrate and begin printing.

3.4 Print Quality Adjustment

The printer offers advanced controls for print quality:

- **Darkness Settings:** Adjust the print darkness (up to 300 settings) via the LCD menu or printer driver to optimize readability.
- **Element Energy Equalizer (E3):** This feature ensures consistent print quality across the entire label.
- **Print Head Test:** The intelligent print head can test for element outages, helping to diagnose and prevent print quality issues.

4. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Zebra 220XI4 printer.

4.1 Cleaning the Print Head

The print head should be cleaned regularly, especially after every ribbon or media roll change, or if print quality degrades.

1. Power off the printer and disconnect the power cord.
2. Open the top cover.
3. Using a cotton swab lightly moistened with isopropyl alcohol (99% pure), gently wipe the dark line across the print head.

4. Allow the print head to dry completely before closing the cover and powering on the printer.

4.2 Cleaning the Platen Roller

The platen roller (the rubber roller beneath the print head) should also be cleaned periodically to prevent media jams and ensure proper media feeding.

1. Power off the printer and disconnect the power cord.
2. Open the top cover.
3. Rotate the platen roller manually while wiping its surface with a lint-free cloth moistened with isopropyl alcohol.
4. Allow it to dry completely before use.

4.3 Media and Ribbon Replacement

Refer to Section 2.3 "Media and Ribbon Loading" for detailed instructions on replacing consumables. Always use Zebra-approved media and ribbons for best results.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your Zebra 220X14 printer.

5.1 No Power

- Ensure the power cord is securely connected to both the printer and a working electrical outlet.
- Verify the power switch is in the 'On' position.
- Test the outlet with another device.

5.2 Poor Print Quality

- **Faint or Missing Print:** Adjust print darkness settings. Clean the print head (see Section 4.1). Ensure the correct ribbon is used for thermal transfer.
- **Smudged Print:** Reduce print darkness. Ensure media and ribbon are compatible. Clean the print head and platen roller.
- **Vertical Lines:** Indicates a dirty or damaged print head element. Clean the print head. If the issue persists, the print head may need replacement.

5.3 Media Jams

- Open the top cover and clear any jammed media.
- Ensure media is loaded correctly and guides are properly adjusted (see Section 2.3).
- Clean the platen roller (see Section 4.2).
- Verify media specifications are within the printer's supported range.

5.4 Connectivity Issues

- Check all cable connections (USB, Serial, Parallel, Ethernet).
- Ensure the correct printer driver is installed and updated.
- Verify printer settings on your computer match the physical connection type.
- For network connections, check network cables and IP address settings.

For more complex issues, consult the full technical documentation or contact Zebra support.

6. SPECIFICATIONS

Feature	Description
Print Method	Direct Thermal, Thermal Transfer
Resolution	300 dpi (12 dots/mm)
Print Width (Max)	8.5 inches (216 mm)
Print Length (Max)	150 inches (3810 mm) using continuous media
Print Speed (Max)	10 inches per second
Memory	16 MB SD RAM, 8 MB Flash
Processor	32-bit 133 MHz RISC
Connectivity	USB 2.0, Serial (RS-232), Bi-directional Parallel, 10/100 Ethernet (optional)
Media Types	Black mark, continuous, roll-fed, die-cut, fanfold
Media Thickness	0.003" (0.076 mm) to 0.012" (0.305 mm)
Max Roll Diameter	8.0 inches (203 mm)
Core Diameter	3 inches (76 mm)
Ribbon Length	1476 ft (450 m) or 984 ft (300 m)
Dimensions (H x W x D)	15.5 x 15.81 x 20.38 inches (393.7 x 401.6 x 517.5 mm)
Weight	75 pounds (34 kg)
Power Supply	Universal 90-264 VAC, 48-62 Hz
Display	240 x 128 pixel graphical, backlit LCD

7. WARRANTY INFORMATION

The Zebra 220XI4 Industrial Printer comes with a **limited warranty**. Specific terms and conditions of the warranty, including coverage duration and limitations, are provided with the product documentation at the time of purchase. Please refer to your warranty card or contact Zebra Technologies for detailed information regarding your product's warranty.

8. TECHNICAL SUPPORT

For technical assistance, driver downloads, or further product information, please visit the official Zebra Technologies website or contact their customer support.

- **Zebra Technologies Website:** www.zebra.com
- **Customer Support:** Refer to the contact information provided on the Zebra website for your region.

