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› Konsung H7 High-Precision Automated Chemistry Analyzer User Manual

Konsung H7

Konsung H7 High-Precision Automated Chemistry Analyzer User Manual

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and effective operation of your Konsung H7 High-Precision Automated Chemistry Analyzer. Please read this manual thoroughly before using the device and retain it for future reference. The Konsung H7 is designed for rapid and accurate measurement of Hemoglobin (HB) and Hematocrit (Hct) levels.

2. SAFETY INFORMATION

- Always use the device in accordance with the instructions provided in this manual.
- Ensure the device is placed on a stable, flat surface during operation.
- Do not expose the device to extreme temperatures, direct sunlight, or excessive moisture.
- Keep the device and test strips out of reach of children.
- Use only Konsung H7 compatible test strips. Using incompatible strips may lead to inaccurate results or device malfunction.
- Dispose of used test strips and other consumables according to local regulations for medical waste.
- Do not attempt to open or repair the device yourself. Refer all servicing to authorized personnel.
- Clean the device regularly as instructed in the Maintenance section to ensure optimal performance.

3. PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- Konsung H7 Hemoglobin Analyzer
- Power Cable

- 50PCS Test Strips (Hemoglobin microcuvettes)
- User Manual (this document)

4. PRODUCT OVERVIEW

The Konsung H7 Hemoglobin Analyzer is a compact, high-precision device designed for quick and easy measurement of hemoglobin and hematocrit. It features a clear display and intuitive controls.



Figure 4.1: Front view of the Konsung H7 Analyzer with the screen displaying sample results for HB and Hct, along with reference ranges and a graphical representation. The device features a sleek black and white design with control buttons below the screen.



Figure 4.2: The Konsung H7 Analyzer placed next to a bottle of Hemoglobin microcuvettes (test strips), illustrating the complete testing kit. The bottle label shows product details and expiry dates.



Figure 4.3: Back view of the Konsung H7 Analyzer, showing the product label with model number (H7-3), serial number, manufacturer details, and certification marks. USB ports (MIC USB, MINI USB) and a reset button are visible at the top edge.

Key features of the Konsung H7 Analyzer include:

- Low sample volume: Requires less than 10 μ l of sample.
- Fast results: Provides HB and Hct results in less than 3 seconds.
- Large memory: Stores up to 2000 test results.
- Long battery life: Over 6 hours of continuous use on a single charge.
- No coding required: Ready to use out of the box.
- High precision: Coefficient of Variation (CV) \leq 1.5%.

5. SETUP

1. **Unpack the Device:** Carefully remove the Konsung H7 Analyzer and all accessories from the packaging.
2. **Initial Charge:** Connect the device to a power source using the provided power cable. Allow the device to fully charge before first use. The battery indicator on the screen will show charging status.
3. **Power On:** Press and hold the power button (usually located below the screen) until the display illuminates.
4. **Date and Time Setting (if applicable):** If prompted, set the correct date and time using the navigation buttons. Refer to the on-screen prompts for guidance.

6. OPERATING INSTRUCTIONS

The Konsung H7 Analyzer is designed for simple, three-step operation:

Testing in three easy steps

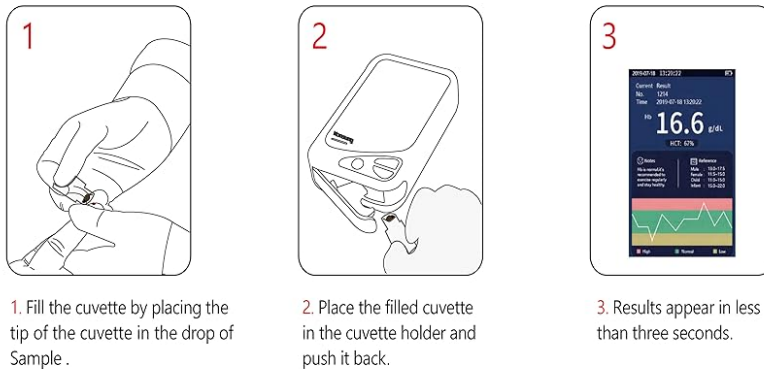


Figure 6.1: Visual guide to the three easy steps for testing: 1. Fill the cuvette with a sample. 2. Place the filled cuvette into the analyzer. 3. Results appear on the screen.

1. **Prepare the Sample:** Obtain a blood sample as per standard medical procedures. Open a new Konsung H7 microcuvette.
2. **Fill the Cuvette:** Place the tip of the microcuvette into the blood sample. The cuvette will automatically draw in the required volume (approximately 7 μ l) via capillary action. Ensure the cuvette is completely filled without air bubbles.
3. **Insert the Cuvette:** Open the cuvette holder on the Konsung H7 Analyzer. Carefully insert the filled microcuvette into the holder and gently push it back until it clicks into place.
4. **Read Results:** The analyzer will automatically begin the measurement. Results for Hemoglobin (HB) and Hematocrit (Hct) will appear on the screen in less than 3 seconds.
5. **Record Results:** The device automatically stores up to 2000 test results. You can navigate through past results using the device's navigation buttons.
6. **Dispose of Cuvette:** After measurement, remove the used microcuvette and dispose of it properly as biohazardous waste.

7. MAINTENANCE

- **Cleaning:**
 - Wipe the exterior of the analyzer with a soft, damp cloth.
 - For disinfection, use a cloth lightly moistened with 70% isopropyl alcohol.
 - Do not immerse the device in water or use abrasive cleaners.
 - Ensure the cuvette holder is clean and free of debris. Use a soft brush if necessary.
- **Storage:** Store the Konsung H7 Analyzer and test strips in a cool, dry place, away from direct sunlight and extreme temperatures. Ensure the test strip container is tightly sealed after each use.
- **Battery Care:** To prolong battery life, avoid fully discharging the device frequently. Charge the device regularly, even if not in constant use.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low or depleted battery.	Connect the device to the power cable and charge it.
Inaccurate or inconsistent results.	Expired or damaged test strips; improper sample collection; cuvette not fully filled; device or cuvette holder is dirty.	Check expiry date of strips; ensure proper sample collection technique; verify cuvette is completely filled; clean the device and cuvette holder.
Error message on screen.	Specific error code indicates an issue.	Refer to the device's on-screen error code guide or contact customer support with the specific error code.
Cuvette not inserting properly.	Cuvette holder obstructed or misaligned.	Ensure no debris is in the cuvette holder. Gently align and push the cuvette until it clicks. Do not force it.

If you encounter issues not listed here or if the suggested solutions do not resolve the problem, please contact Konsung customer support.

9. SPECIFICATIONS

- **Model:** H7
- **Measurement Parameters:** Hemoglobin (HB), Hematocrit (Hct)
- **Sample Volume:** 7 μ l
- **Measurement Time:** \leq 3 seconds
- **Memory:** Up to 2000 test results
- **Battery Life:** > 6 hours (continuous use)
- **Power Source:** Integrated rechargeable battery, charged via power cable (included)
- **Operating Temperature:** (Refer to device label or manufacturer's website for specific range)
- **Storage Temperature:** (Refer to device label or manufacturer's website for specific range)
- **Manufacturer:** Konsung
- **UPC:** 671891811466

10. WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included with your product or visit the official Konsung website. The warranty typically covers manufacturing defects for a specified period from the date of purchase.

For technical support, service, or inquiries regarding your Konsung H7 Analyzer, please contact Konsung customer service. Contact details can usually be found on the product packaging, the official Konsung website, or your purchase documentation.

Please have your product model (H7) and serial number (found on the back of the device, see Figure 4.3) ready when contacting support.

