

Manual Differential Blood Cell Counter, 8 Keys with Totalizer

User Manual

Laboratory Equipment

Intended use

Mechanical tabletop counter for tallying white blood cell types during manual differential counts under a microscope. Eight keys count individual cell categories and a ninth window shows the total.

Intended users

Trained laboratory personnel in hematology, clinical, veterinary, research and teaching laboratories. For use by trained healthcare professionals. Follow your facility's protocols and applicable regulations.

Read this manual completely before first use and keep it with the product. This document provides general operating, care and safety guidance. Where the product is supplied with manufacturer labeling or instructions, those take precedence. For questions, a replacement copy, or a digital copy of this manual, email sales@scimedstore.com.

1. Safety

Safety warnings and cautions

- For use by trained healthcare professionals. Follow your facility's protocols and applicable regulations.
- Keep the counter away from specimens and slides to avoid contamination. Do not operate with contaminated gloves.
- Do not use the counter to interpret results. Differential results must be reviewed and reported per your laboratory's procedures.
- Do not drop the counter or press keys with excessive force.
- Do not immerse the counter in liquids.
- Do not use if keys stick or windows do not advance correctly.

2. Package contents

- 8-key blood cell counter
- Rixin protective case

Check contents on receipt. Report missing or damaged items to sales@scimedstore.com within 48 hours of delivery.

3. Specifications

Keys	8 counting keys: Basophil, Eosinophil, Myelocyte, Juvenile, Stab, Segmented, Lymphocyte, Monocyte
Totalizer	9th window showing the sum of all 8 keys
Count range	0-999 per window
Audible signal	Bell at every 100th total count
Reset	Reset knobs on both sides, clear all windows to zero
Housing	ABS, collision-resistant
Power	Manual, no battery

4. Unpacking and setup

- 1 Remove the counter from its case and place it on a flat surface within easy reach of the microscope.
- 2 Turn the reset knob to set all windows, including the totalizer, to zero.
- 3 Check that each key advances its window and the totalizer by one when pressed.

5. Operation

Performing a differential count

- 1 Reset all windows to zero before starting a new slide.
- 2 Examine the stained smear under the microscope according to your laboratory method.
- 3 For each cell identified, press the key for that cell type once.
- 4 Watch or listen for the bell, which sounds at every 100th total count.
- 5 Stop counting when the totalizer reaches the number of cells required by your method.

- 6 Read the count in each window and record it with the specimen identification.
- 7 Calculate percentages per your laboratory's procedure.
- 8 Reset all windows to zero before the next slide.

6. Cleaning and disinfection

- Wipe the housing and keys with a soft cloth lightly dampened with mild detergent or a disinfectant compatible with ABS plastic.
- Do not spray liquids directly onto the counter or allow liquid to enter the mechanism.
- Do not use solvents or abrasive cleaners.
- Dry with a soft cloth after cleaning.

7. Maintenance and storage

- Store the counter in its Rixin case in a clean, dry place.
- Avoid extreme heat, humidity and direct sunlight.
- Check periodically that every key and the totalizer advance correctly and that the bell sounds.
- Do not open the housing or oil the mechanism.

8. Troubleshooting

Problem	Likely cause	What to do
A window does not advance	Key not fully pressed or mechanism worn	Press the key fully; if it still fails, take the counter out of service.
Totalizer does not match sum of keys	Counter not fully reset before starting	Reset all windows to zero and recount the slide.
Bell does not sound at 100	Bell mechanism fault or noisy room	Use the totalizer window as the count indicator; contact the supplier if the bell has failed.
Windows do not return to zero	Reset knob not turned fully	Turn the reset knob fully through its travel.
Key sticks	Dirt or residue under the key	Clean around the key with a slightly damp cloth; do not use liquids inside.

9. Disposal

- Clean and disinfect the counter before disposal.
- Dispose of the counter as plastic and metal waste in accordance with local regulations.

10. Warranty and support

Products are covered by SciMed's standard warranty (12 months from purchase unless a different period is stated on your invoice). Warranty terms: scimedstore.com/pages/warranty.

Support, spare parts and additional copies of this manual: sales@scimedstore.com. Please include your order number and a photo of the product or issue.

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