

Silva Ranger S

Silva Ranger S Compass User Manual

Model: Ranger S (Part Number: 37467)

1. INTRODUCTION

Thank you for choosing the Silva Ranger S Compass. This manual provides comprehensive instructions for the proper setup, operation, and maintenance of your compass to ensure accurate and reliable navigation during your outdoor activities. The Silva Ranger S is designed for precision and durability, making it an essential tool for hiking, orienteering, and other outdoor adventures.

2. SAFETY INFORMATION

While the Silva Ranger S Compass is a robust and reliable instrument, please observe the following safety guidelines:

- Keep the compass away from strong magnetic fields (e.g., magnets, electronic devices, power lines, metal objects) as these can affect the needle's accuracy.
- Do not expose the compass to extreme temperatures for prolonged periods, as this may damage the liquid-filled capsule or other components.
- The compass contains small parts and is not a toy. Keep out of reach of small children.
- The safety strap is designed to prevent loss; ensure it is securely attached when in use.

3. PRODUCT OVERVIEW

3.1 Components

The Silva Ranger S Compass consists of several key components designed for optimal navigation:

- **Baseplate:** Transparent acrylic base with measuring scales.
- **Compass Housing:** Rotatable housing containing the magnetic needle.
- **Mirror:** Foldable mirror for accurate sighting and self-checking.
- **Sighting Hole:** Allows precise alignment when taking bearings.
- **Lanyard/Safety Strap:** Detachable strap with integrated measuring scales.

3.2 Features

The Silva Ranger S is equipped with features to enhance your navigation experience:

- **Dryflex Socket:** Soft, grippy material for comfortable handling.
- **Declination Compensation Scale:** Located within the capsule for adjusting to local magnetic declination.
Note: This model features a scale for compensation, not an adjustable dial.
- **Fluorescent Elements:** Luminous markings on the bezel and needle for night navigation.
- **Waterproof:** Rated to IPX8, ensuring functionality in wet conditions.
- **Mirror with Cross:** The cross in the mirror assists in accurate angle sighting when the mirror is angled at 45 degrees.
- **Measuring Scales:** Integrated scales of 1:25k and 1:50k on the baseplate for map work.
- **Safety Cord with Scales:** The detachable safety cord includes scales for measuring distance directly on a map.
- **Durable Acrylic:** High transparency and robust construction for longevity.
- **Liquid-filled Capsule:** Ensures fast needle settling and stable readings.



Figure 1: Overview of the Silva Ranger S Compass, showing its transparent baseplate, rotatable housing, and attached safety lanyard.

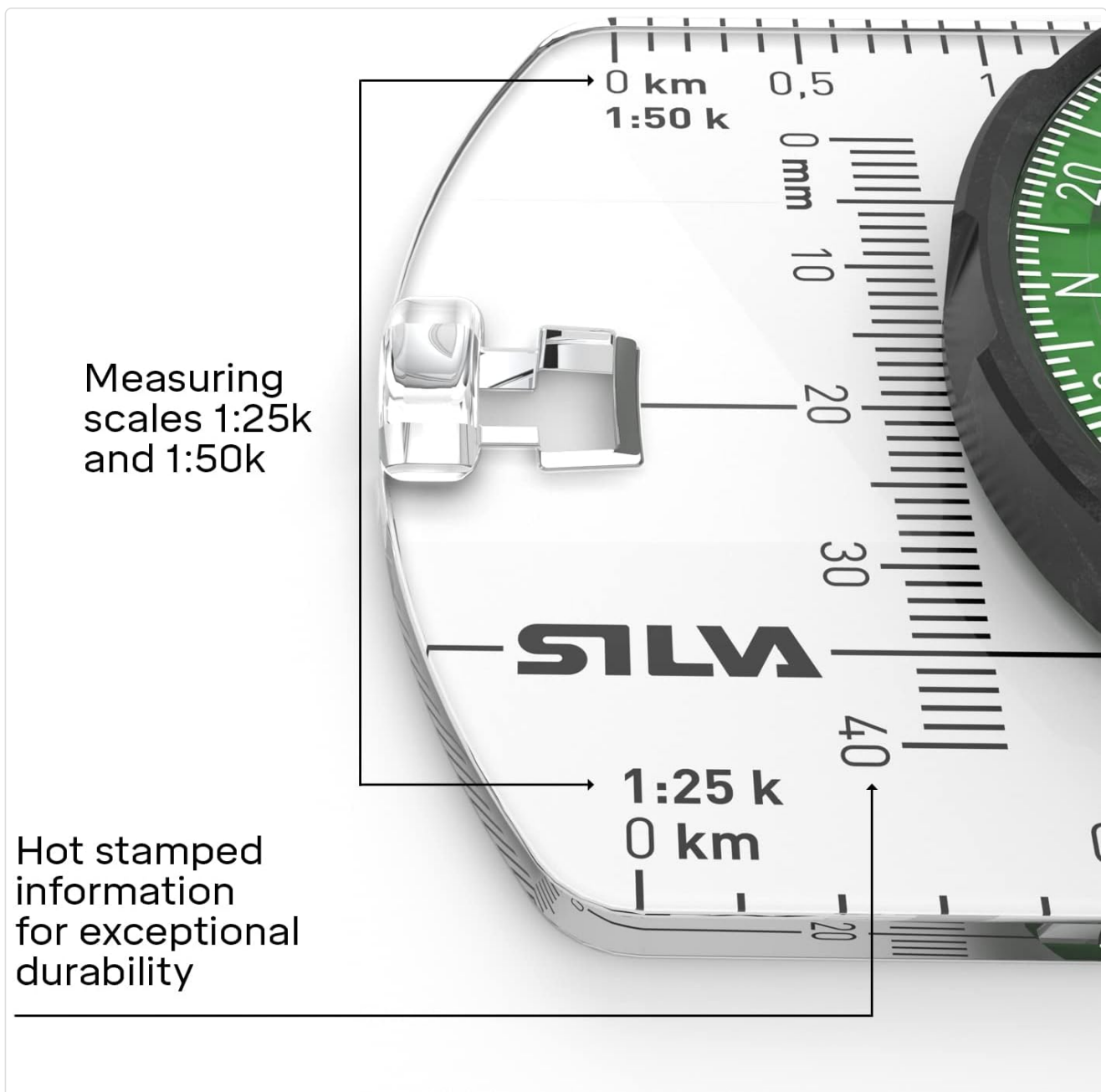


Figure 2: Detail showing the 1:25k and 1:50k measuring scales on the compass baseplate, essential for map reading.

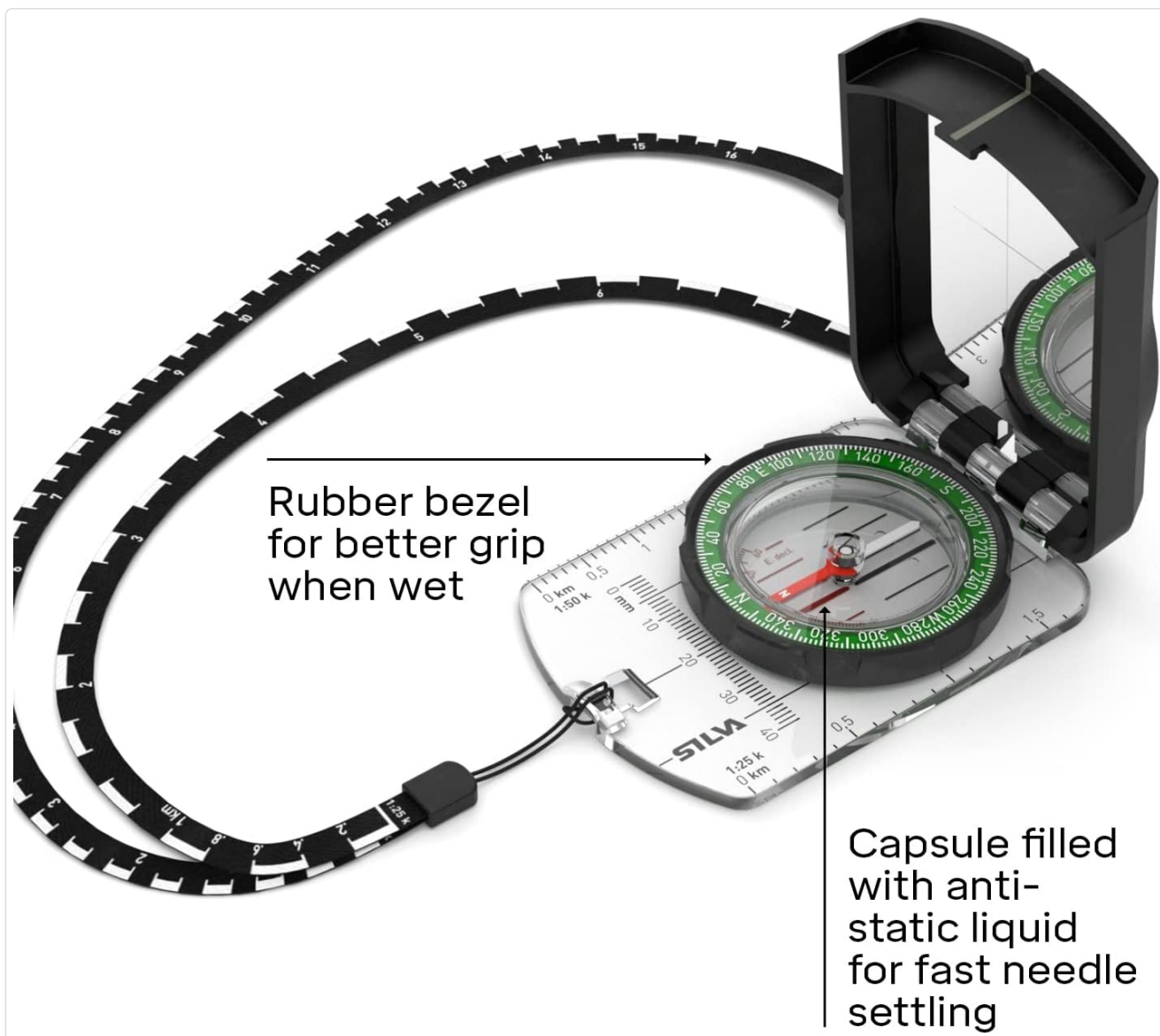


Figure 3: Illustration of the rubber bezel for improved grip and the liquid-filled capsule ensuring fast and stable needle settling.

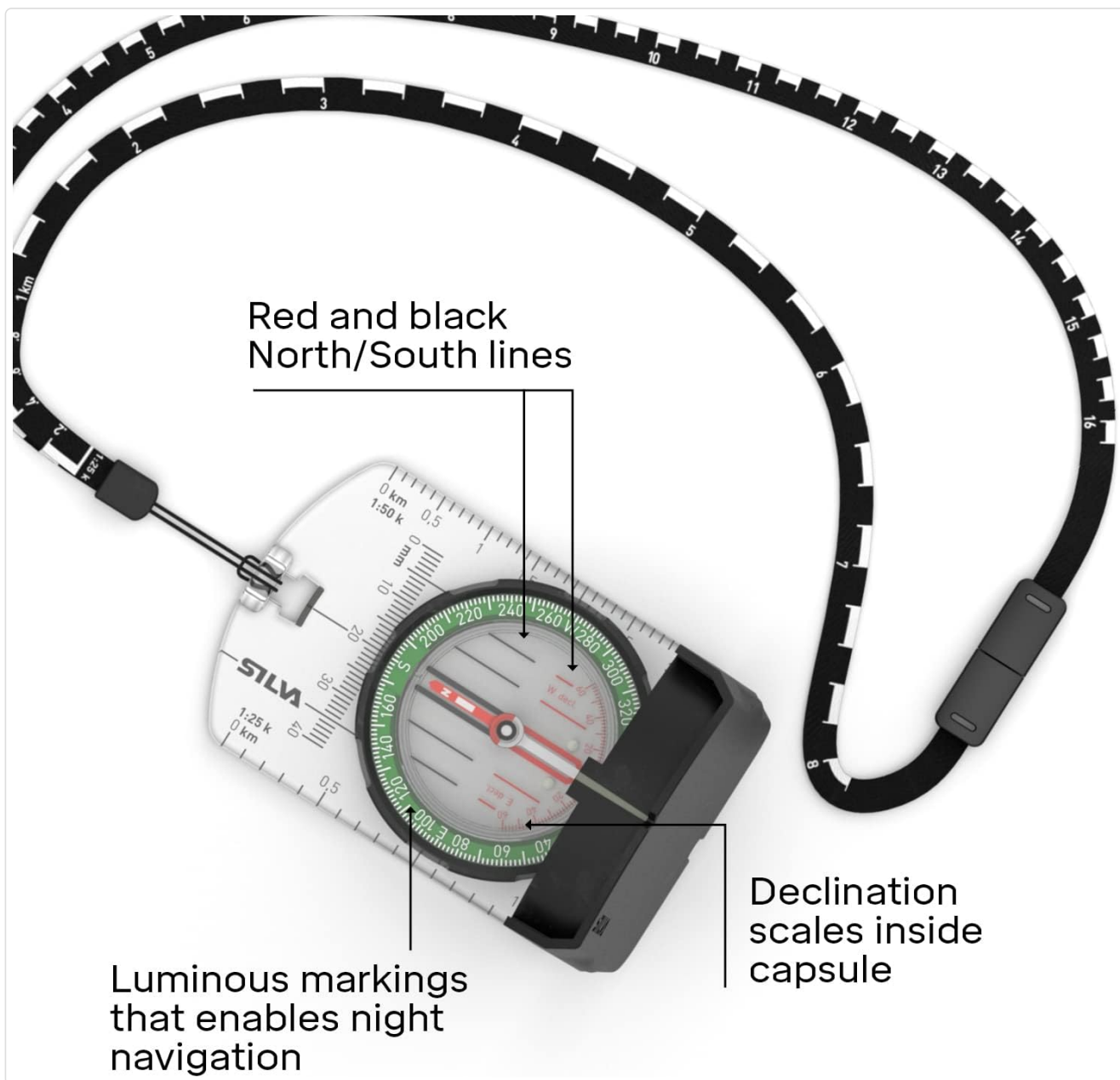


Figure 4: View of the compass showing the red and black North/South lines, luminous markings for low-light conditions, and the declination scales inside the capsule.

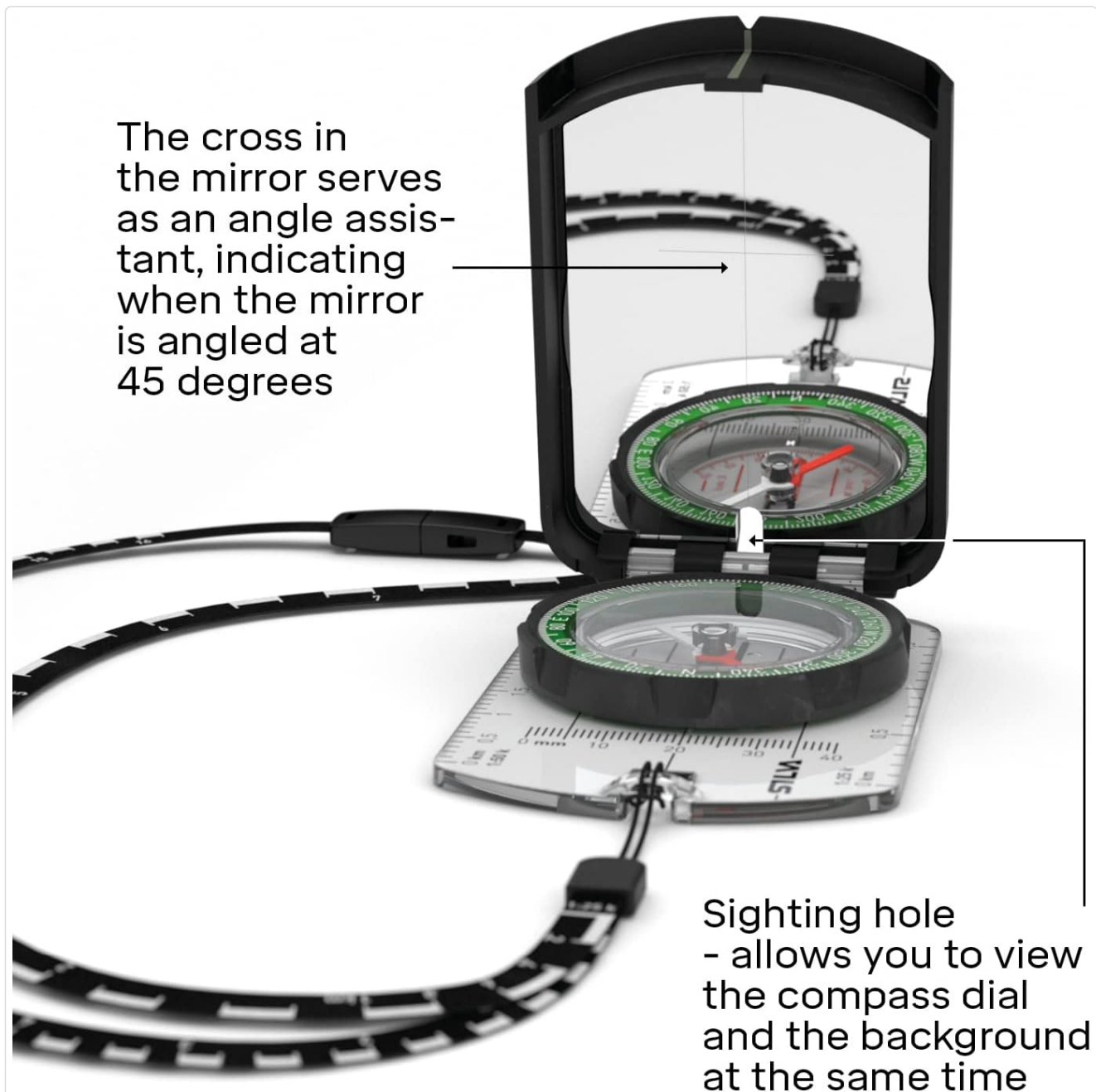
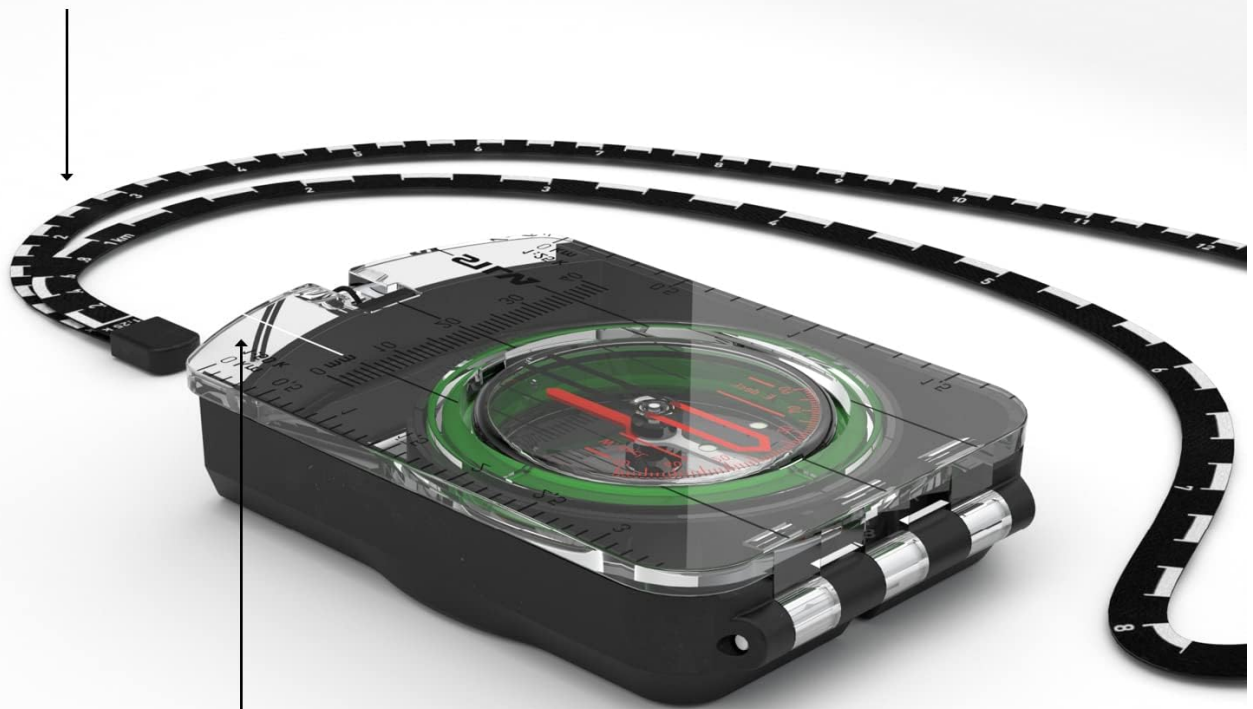


Figure 5: The compass mirror with its integrated cross, which acts as an angle assistant, and the sighting hole for precise bearing acquisition.

Safety cord with scales for
measure distance on map



Durable acrylic
– high transparency

Figure 6: The durable acrylic construction of the compass and the safety cord, which features additional scales for measuring distances on a map.

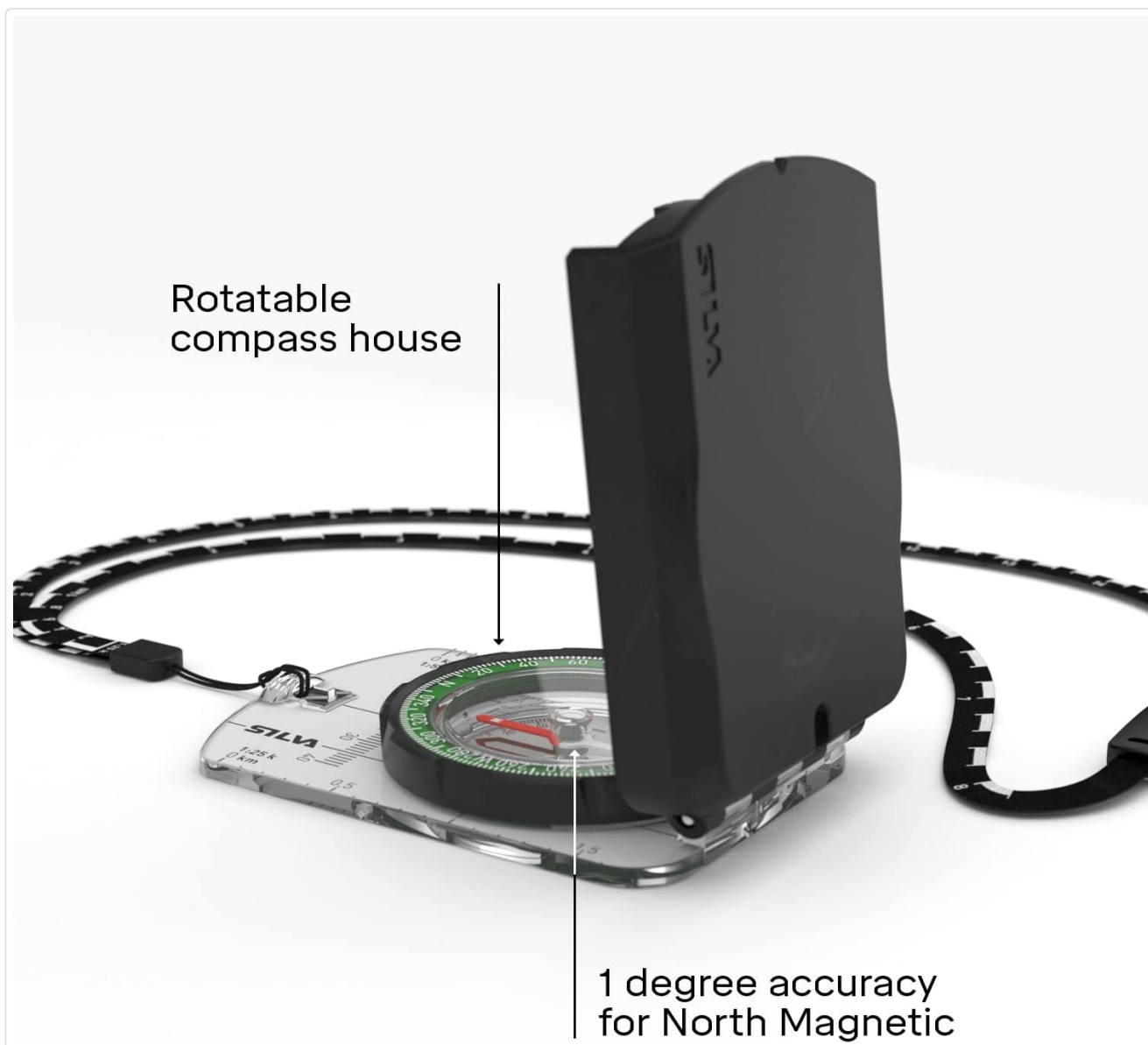


Figure 7: The rotatable compass housing, which allows for precise 1-degree accuracy in determining North Magnetic.

4. SETUP

Your Silva Ranger S Compass comes ready for use with minimal setup required.

1. **Unpack:** Carefully remove the compass from its packaging.
2. **Attach Lanyard:** The detachable safety lanyard is included. Thread the small loop of the lanyard through the hole on the compass baseplate and then pass the larger end of the lanyard through the small loop to secure it. This lanyard can be worn around your neck or wrist to prevent loss.
3. **Initial Inspection:** Check the compass for any visible damage. Ensure the needle moves freely and settles quickly when held level.

5. OPERATING INSTRUCTIONS

The Silva Ranger S Compass is a versatile tool for various navigation techniques. Here are basic instructions for common uses:

5.1 Orienting a Map

1. Place your map on a flat, non-magnetic surface.

2. Place the compass on the map with the direction-of-travel arrow pointing towards the top (North) of the map.
3. Rotate the map and compass together until the red (North) end of the magnetic needle aligns with the North arrow inside the compass housing. Your map is now oriented to true North (after declination adjustment, if applicable).

5.2 Taking a Bearing (Field to Map)

1. Point the direction-of-travel arrow on the compass directly at your target object in the field.
2. Rotate the compass housing until the red (North) end of the magnetic needle aligns with the North arrow inside the housing.
3. Read the bearing (in degrees) at the index line on the baseplate. This is the magnetic bearing to your target.
4. To transfer this bearing to your map, place the compass on the map with the edge aligned with your current position and the target. Rotate the entire compass until the North arrow in the housing is parallel with the map's North lines. Draw a line along the compass edge.

5.3 Using the Mirror for Sighting

The mirror allows for more precise sighting and helps you simultaneously view the compass dial and the background.

1. Open the mirror to approximately a 45-degree angle.
2. Look through the sighting hole and align the cross in the mirror with your target.
3. While maintaining alignment, adjust the compass housing until the magnetic needle aligns with the North arrow.
4. Read the bearing.

5.4 Using Measuring Scales

The baseplate features 1:25,000 and 1:50,000 scales, and the lanyard also has measuring scales. These are used to measure distances on maps that correspond to these scales.

1. Identify the scale of your map (e.g., 1:25,000).
2. Place the appropriate scale on the compass or lanyard along the route you wish to measure on the map.
3. Read the distance directly from the scale.

5.5 Night Navigation

The fluorescent elements on the compass allow for navigation in low-light conditions or at night. Expose the compass to light before use to charge the luminous markings.



Figure 8: A user demonstrating how to use the Silva Ranger S Compass in conjunction with a map for navigation.

6. MAINTENANCE

Proper care will extend the life and accuracy of your Silva Ranger S Compass.

- **Cleaning:** Wipe the compass clean with a soft, damp cloth. Do not use abrasive cleaners or solvents, as these can damage the acrylic or markings.
- **Storage:** Store the compass in a cool, dry place away from direct sunlight and strong magnetic fields.
- **Inspection:** Periodically check the compass for cracks in the baseplate or housing, and ensure the needle moves freely without sticking.

7. TROUBLESHOOTING

If you encounter issues with your Silva Ranger S Compass, consider the following:

| Problem | Possible Cause | Solution |
|---|--|---|
| Needle does not settle or points incorrectly. | Magnetic interference from nearby objects (e.g., phone, keys, metal structures). | Move away from potential sources of magnetic interference. Ensure no metal objects are directly under or next to the compass. |
| Needle appears sluggish or sticks. | Air bubble in the liquid-filled capsule; extreme temperature changes; internal damage. | Small bubbles are normal and do not affect accuracy. If the bubble is large or the needle consistently sticks, the compass may be damaged. Contact support. |

| Problem | Possible Cause | Solution |
|---|--|--|
| Readings seem inaccurate. | Incorrect declination compensation; user error; magnetic interference. | Ensure you are compensating for local magnetic declination using the internal scale. Review operating instructions. Check for magnetic interference. |
| Markings are hard to read in low light. | Luminous markings not sufficiently charged. | Expose the compass to a bright light source (sunlight or artificial light) for a few minutes to charge the fluorescent elements. |

8. SPECIFICATIONS

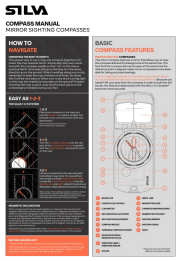
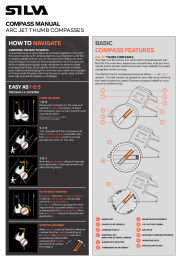
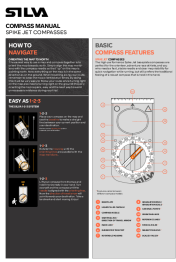


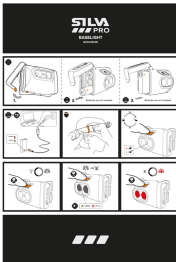
| Feature | Detail |
|-------------------|---|
| Model Name | Ranger S |
| Part Number | 37467 |
| Dimensions (LxW) | 3.54" x 2.32" (90 x 59 mm) |
| Weight | 0.06 Kilograms (53 g) |
| Material | Durable Acrylic, Dryflex Socket |
| Map Scales | 1:25,000, 1:50,000 |
| Waterproof Rating | IPX8 |
| Special Features | Lightweight, Glow In The Dark, Foldable Mirror, Rotating Bezel, Declination Scale |

9. WARRANTY

Warranty information for your Silva Ranger S Compass is typically provided with the product packaging or can be found on the official Silva website. Please retain your proof of purchase for any warranty claims.

10. SUPPORT

For further assistance, technical support, or to inquire about replacement parts, please visit the official Silva website or contact their customer service department. You can find more information at the [Silva Store on Amazon](#) or their main corporate website.

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|---|--|
|  | <p>SILVA Mirror Sighting Compass Manual: Navigation and Features</p> <p>Comprehensive manual for SILVA Mirror Sighting Compasses, detailing navigation techniques, basic features, accessories, and care instructions for outdoor enthusiasts.</p> |
|  | <p>SILVA Arc Jet Thumb Compasses: User Manual and Navigation Guide</p> <p>Comprehensive guide to the SILVA Arc Jet Thumb Compasses, covering navigation techniques, features, accessories, and care for orienteering and outdoor activities.</p> |
|  | <p>Silva Spike Jet Compasses: User Manual and Navigation Guide</p> <p>Comprehensive guide to the Silva Spike Jet compasses, covering navigation techniques, basic features, care instructions, and warranty information for orienteering and outdoor adventures.</p> |
|  | <p>Silva C58 Marine Compass Full Version Manual</p> <p>Comprehensive manual for the Silva C58 marine compass, covering product overview, illumination, positioning, mounting, compensation, deviation, maintenance, and technical specifications. Includes instructions for installation and optimal performance.</p> |
|  | <p>Silva 100B/H Marine Compass Manual: Installation, Maintenance, and Specifications</p> <p>Comprehensive manual for the Silva 100B/H marine compass, covering product overview, technical specifications, installation, maintenance, and deviation compensation for sailing and motor yachts. Includes mounting instructions and environmental disposal guidelines.</p> |
|  | <p>Silva BaseLight Headlamp Quick Guide</p> <p>Concise guide to operating and charging your Silva BaseLight headlamp, including battery insertion and mode selection.</p> |