Silva Expedition 360 Global

Silva Expedition 360 Global Compass Instruction Manual

Model: Expedition 360 Global | Brand: Silva

1. Product Overview

The Silva Expedition 360 Global Compass is a high-performance navigation tool designed for experienced users and professionals. It offers exceptional accuracy, precision, and durability, making it suitable for use across all magnetic zones worldwide. This compass is engineered to provide reliable guidance in diverse outdoor environments.

Key features of the Expedition 360 Global include:

- **Global Needle:** Allows for accurate readings in all three magnetic zones, ensuring functionality anywhere in the world.
- **Night Use:** Luminous markings and a graduation ring enable navigation for up to 4 hours after activation by daylight or a flashlight.
- **Slope Card:** A valuable tool for detecting avalanche risk and assessing terrain difficulty by measuring slope angles.
- **Detachable Distance Lanyard:** Features 1:25 and 1:50 scales, made from soft, bendable material for easy placement directly on a map to measure distances.
- **DryFlex Rubber Grip:** Ensures easy handling and a secure grip, even in challenging conditions.
- **Built-in Adjuster:** For magnetic declination, allowing for precise calibration.
- **Map Measuring Scales:** Includes 1:25k, 1:40k, 1:50k, GPS scales, millimeters, and inches for detailed map work.
- **Magnifying Lens:** Integrated into the baseplate for precision map reading.
- **Rubber Friction Feet:** Located on the baseplate for improved grip against maps.
- **Anti-static Liquid Capsule:** Ensures fast and stable needle settling.

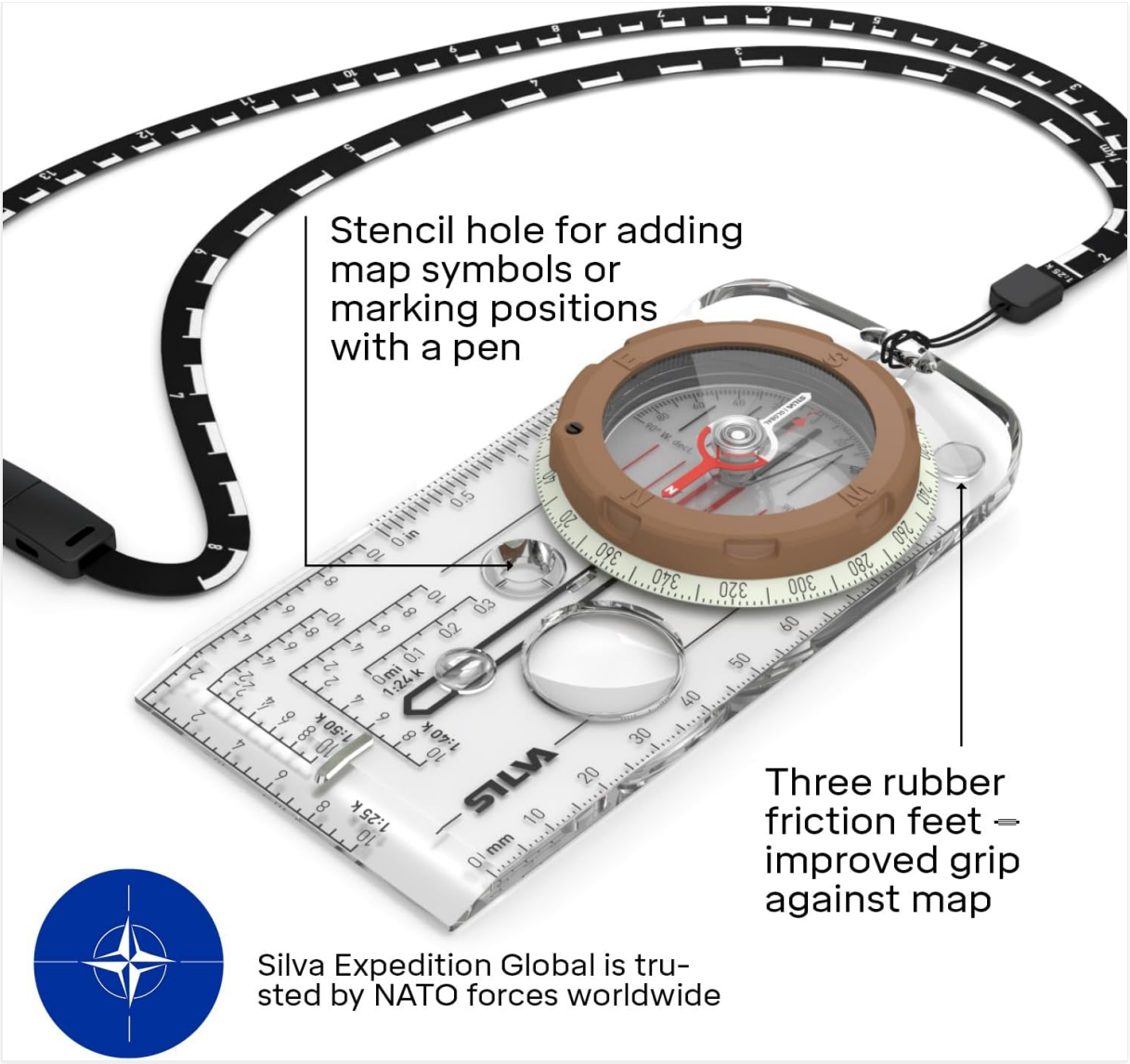

Figure 1: The Silva Expedition 360 Global Compass, showing its clear baseplate, compass housing, lanyard, and stencil hole for map marking. The three rubber friction feet are visible, designed for improved grip on maps.

2. Setup

2.1 Attaching the Lanyard

The compass comes with a detachable distance lanyard. Thread the lanyard through the designated hole on the compass baseplate. Ensure it is securely fastened. The lanyard features 1:25 and 1:50 scales for direct distance measurement on maps.

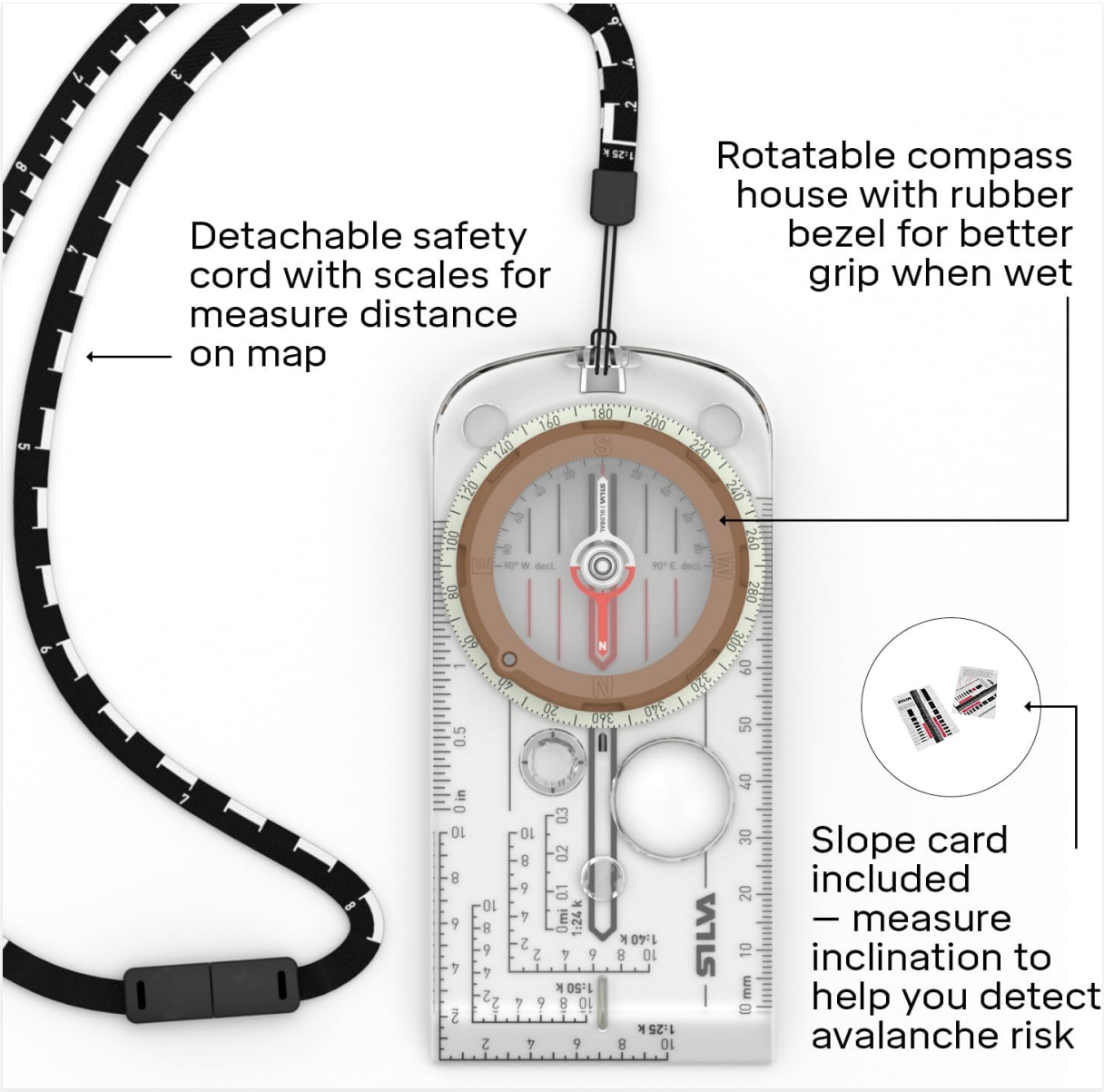

Figure 2: The compass with its detachable safety cord, which includes scales for measuring distances on a map. The included slope card is also shown, used for measuring inclination.

2.2 Adjusting Magnetic Declination

Magnetic declination is the angle between magnetic north (where your compass points) and true north. This angle varies depending on your geographical location. The Expedition 360 Global features a built-in permanent adjuster for magnetic declination, allowing you to compensate for this variation to ensure accurate true north readings.

1. Determine the local magnetic declination for your current location. This information can often be found on topographic maps or online resources.
2. Use the small key or a similar tool (often integrated into the lanyard) to rotate the declination adjustment screw located on the compass.
3. Align the declination scale inside the capsule to match your local declination value. This calibration ensures that when the compass needle points to magnetic north, your orienting arrow points to true north.

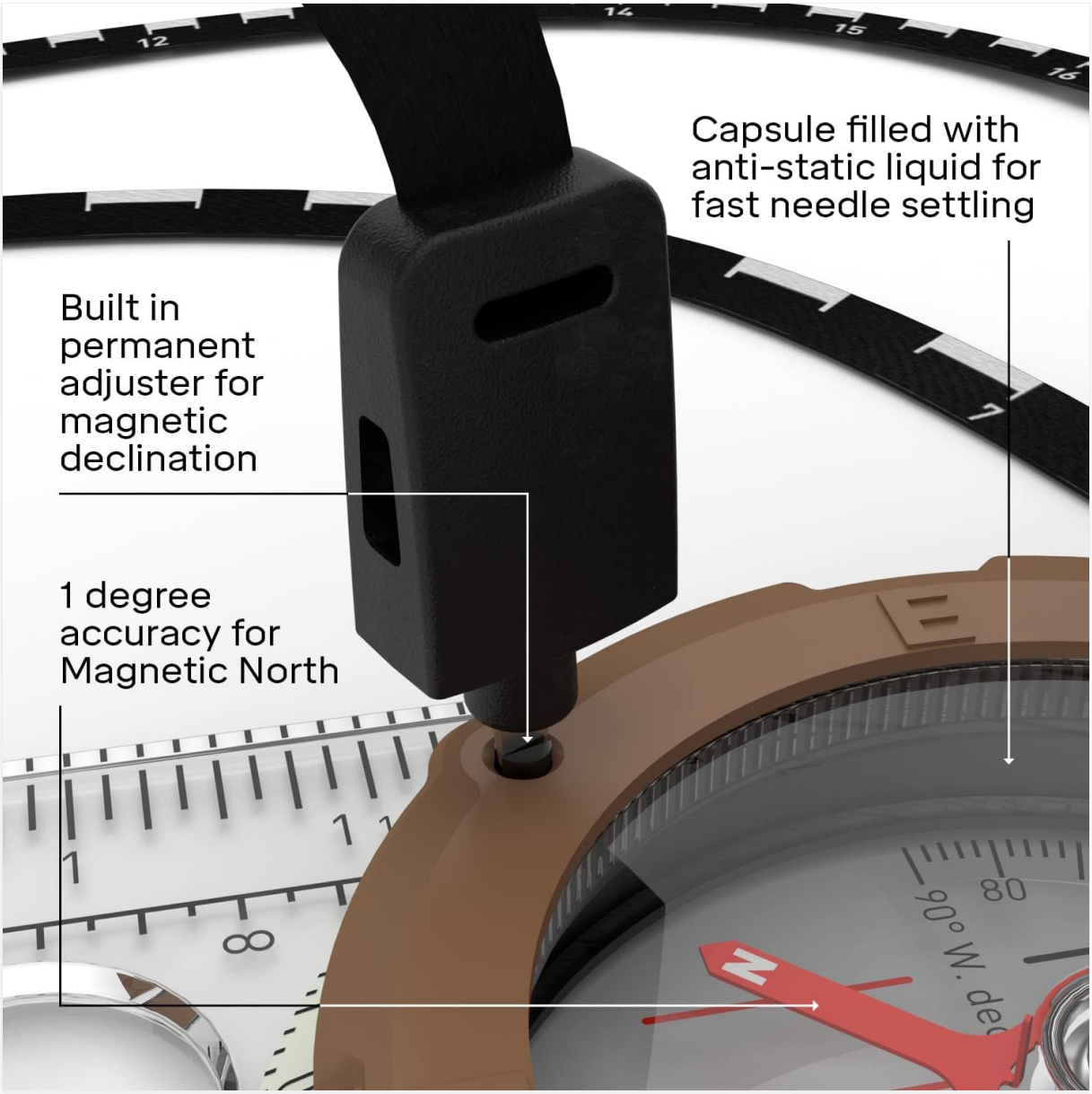

Figure 3: Close-up view of the compass showing the built-in permanent adjuster for magnetic declination, which allows for 1-degree accuracy for Magnetic North. The capsule is filled with anti-static liquid for fast needle settling.

3. Operating Instructions

3.1 Basic Orientation and Bearing

1. **Hold the Compass Level:** Ensure the compass is held flat and steady to allow the needle to settle freely.
2. **Orient the Map:** Place the compass on your map. Rotate the map and compass together until the compass needle aligns with the orienting lines inside the compass housing, with the red (North) end of the needle pointing to the North on the map.
3. **Take a Bearing:** Point the direction-of-travel arrow on the baseplate towards your desired destination. Rotate the compass housing until the orienting arrow (or "red in the shed" lines) aligns with the red (North) end of the magnetic needle. The bearing to your destination can now be read at the index line.

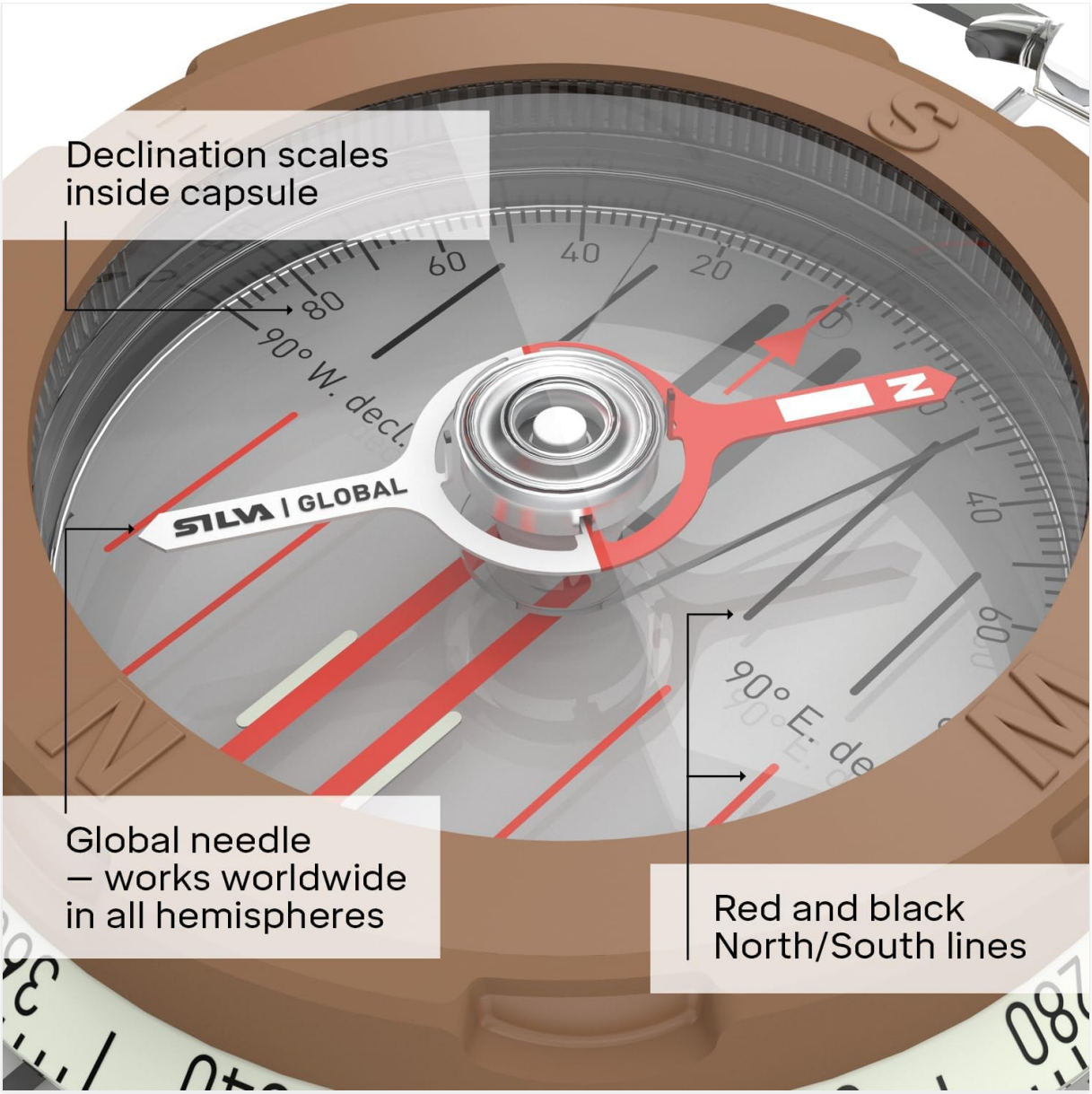

Figure 4: A detailed view of the compass capsule, highlighting the global needle that functions worldwide in all hemispheres. Declination scales are visible inside the capsule, along with red and black North/South lines for easy orientation.

3.2 Night Navigation

The compass features luminous markings on the graduation ring and orienting lines. To activate these markings for night navigation, expose the compass to daylight or a flashlight for a few minutes. The activated markings will glow, allowing for navigation in low-light conditions for up to 4 hours.

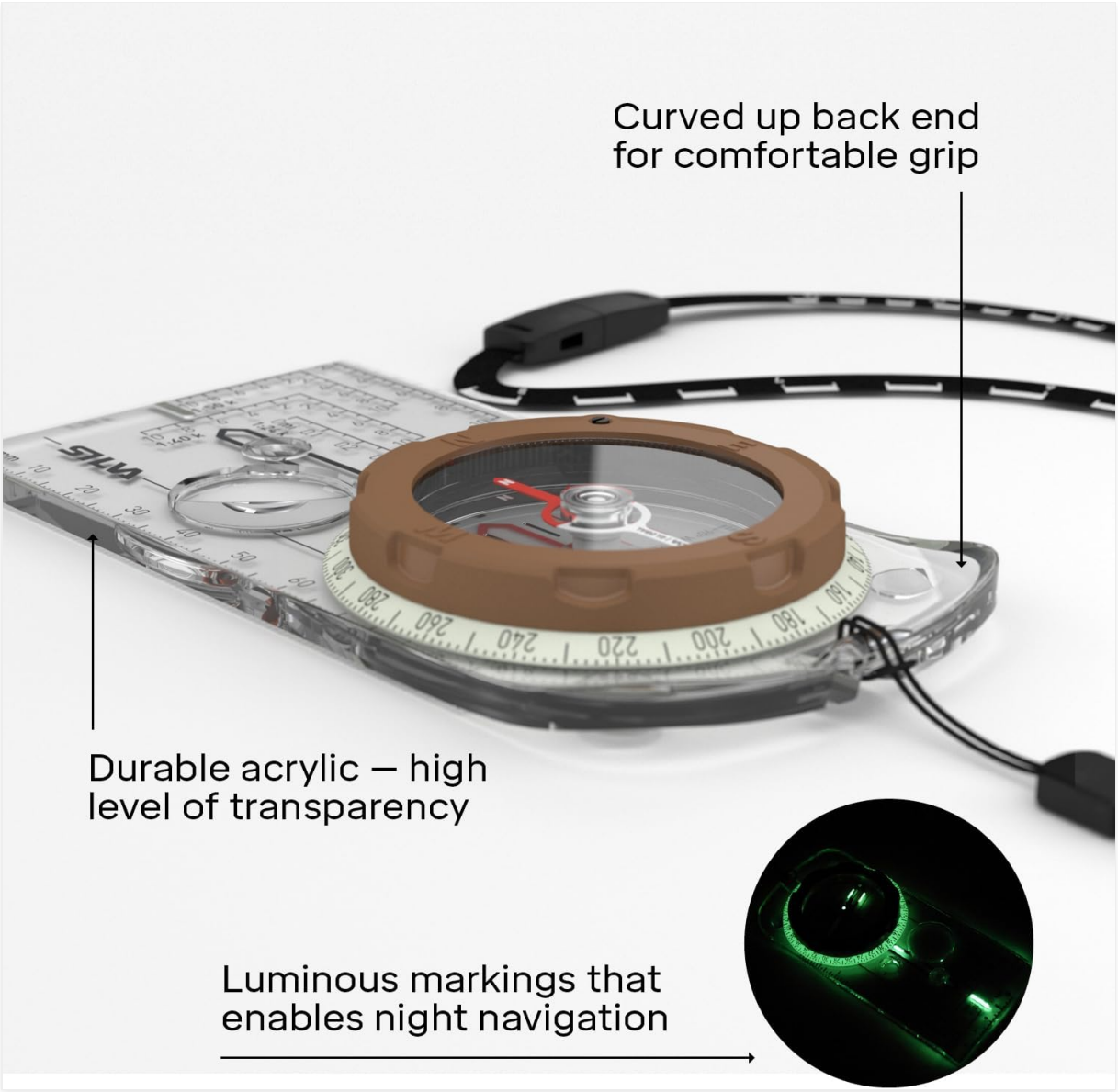

Figure 5: The compass demonstrating its durable acrylic construction and the curved-up back end for a comfortable grip. The luminous markings are highlighted, which enable night navigation.

3.3 Using Map Scales and Magnifying Lens

The baseplate includes various map measuring scales (1:25k, 1:40k, 1:50k, GPS scales, mm, inches) to accurately measure distances and plot positions on different types of maps. The integrated magnifying lens assists in reading fine details on maps, enhancing precision during navigation.

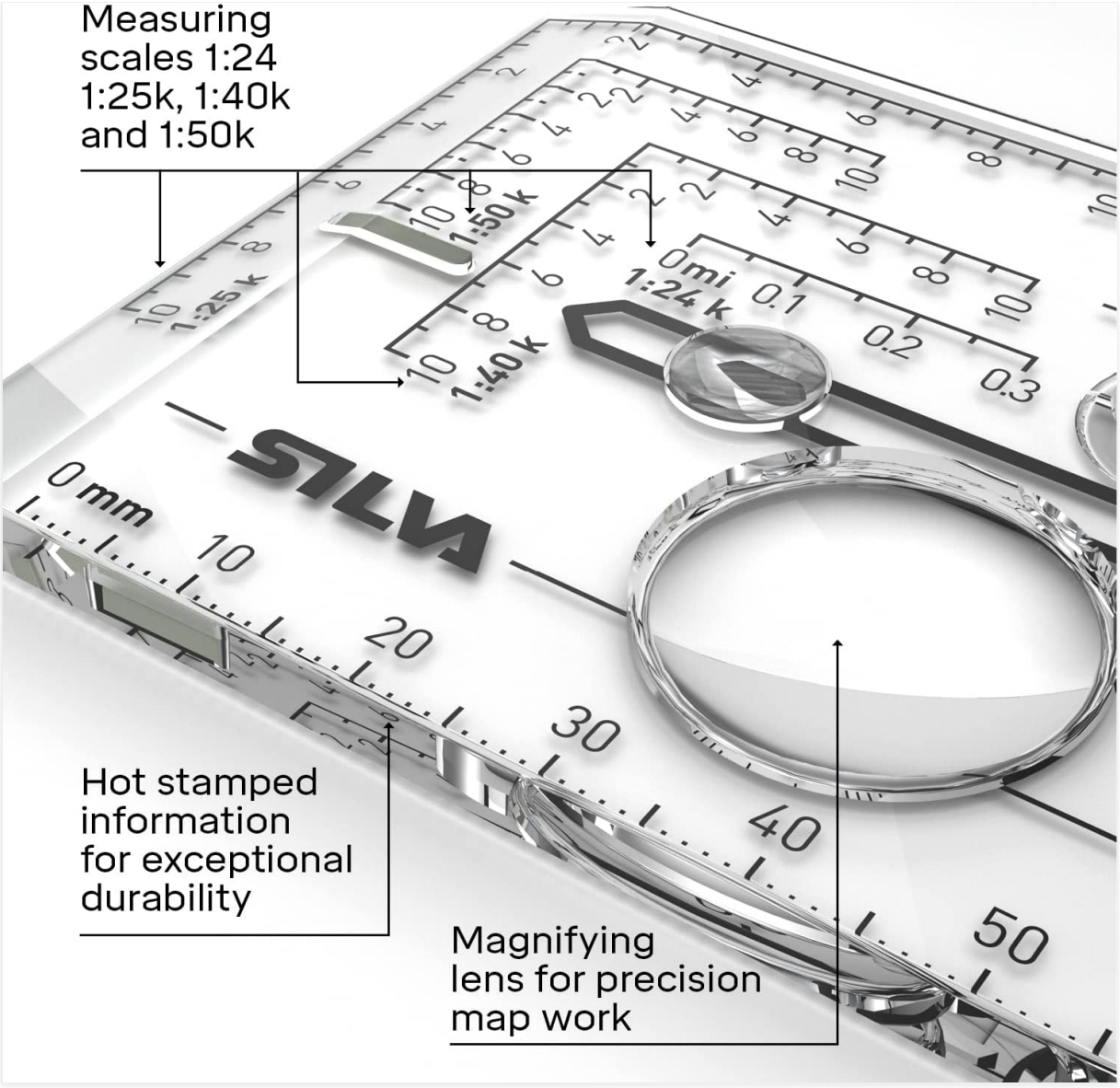

Figure 6: A close-up of the compass baseplate, illustrating the various measuring scales (1:25k, 1:40k, 1:50k) and the magnifying lens for detailed map work. The hot-stamped information ensures exceptional durability.

3.4 Slope Card Usage

The included slope card can be used to measure the angle of a slope. This is particularly useful for assessing avalanche risk in mountainous terrain or for understanding the physical challenge of an ascent or descent. Refer to the instructions provided with the slope card for specific measurement techniques.

4. Maintenance

To ensure the longevity and accuracy of your Silva Expedition 360 Global Compass, follow these maintenance guidelines:

- **Cleaning:** Wipe the compass with a soft, damp cloth. Avoid using harsh chemicals or abrasive materials, as these can damage the acrylic baseplate and markings.
- **Storage:** Store the compass in a cool, dry place away from strong magnetic fields (e.g., magnets, electronic devices, speakers) which can demagnetize the needle over time.
- **Inspection:** Periodically check the compass for any signs of damage, such as cracks in the baseplate or capsule, or a sluggish needle.

5. Troubleshooting

- **Needle Appears Stuck or Sluggish:**
  - Ensure the compass is held perfectly level.
  - Check for nearby magnetic interference (e.g., metal objects, electronics). Move away from such sources.
  - Gently tap the compass to dislodge the needle if it's temporarily caught. If the issue persists, the compass may be damaged or demagnetized.
- **Inaccurate Readings:**
  - Verify that magnetic declination has been correctly adjusted for your current location (refer to Section 2.2).
  - Ensure no magnetic interference is affecting the compass.
  - Confirm that the compass is held level and steady during use.

6. Specifications

Brand	Silva
Model Name	Expedition 360 Global
Part Number	37685
Material	Plastic (Durable Acrylic)
Item Weight	50 Grams
Product Dimensions	3.2"L x 6.9"W x 0.8"H (approximate, based on item and package dimensions)
Map Scales	1:25k, 1:40k, 1:50k, GPS scales; mm, inches (1/20th)
Included Components	Compass, lanyard
Special Feature	Portable, Luminous Markings, Global Needle, Declination Adjuster

7. Warranty

The Silva Expedition 360 Global Compass comes with a Limited 2-year warranty. Please retain your proof of purchase for any warranty claims. For detailed terms and conditions, refer to the official Silva website or contact customer support.

8. Support

For additional information, frequently asked questions, or technical assistance, please visit the official Silva website or contact their customer service department. Always ensure you are using the most up-to-date information for your product.

9. Product Video Overview

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Video 1: An official product overview video from the seller, showcasing the Silva Explorer 2.0 Compass. This video highlights key features such as the declination scale, luminous markings for night use, DryFlex rubber grip, and baseplate map measuring scales, demonstrating its functionality and design for outdoor navigation.