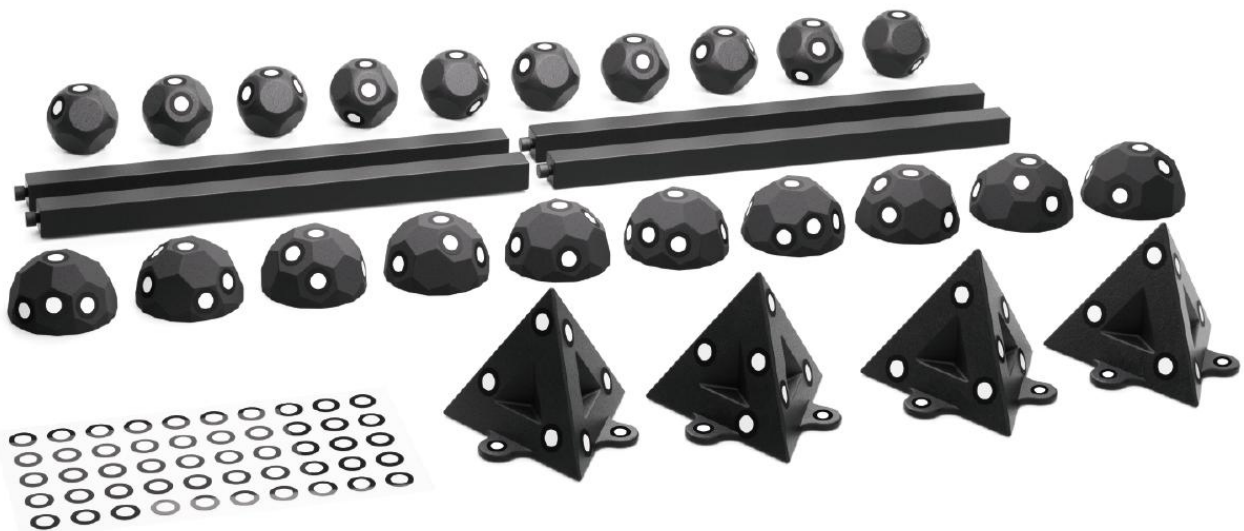


Marker Block Kit

Quick Start Guide

V1.2



REVOPOINT

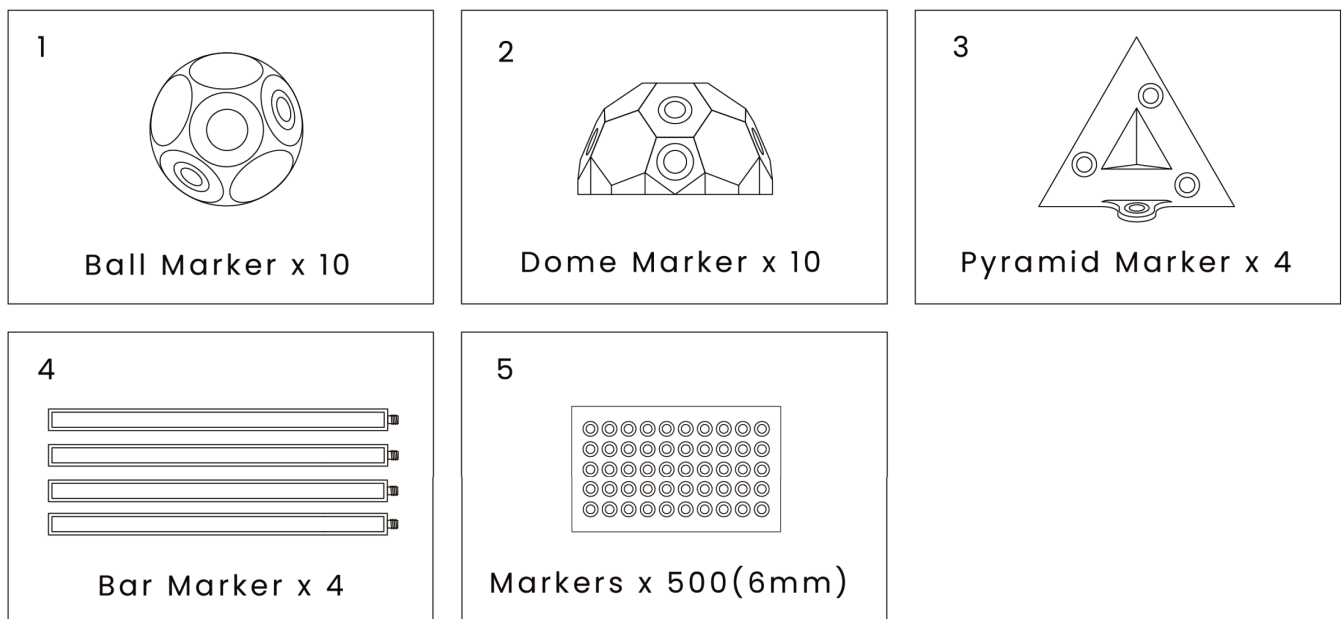
Contents

■ Product Profile	1
■ What's in the Box	1
■ Kit Contents	1
■ How to Use	3
■ Important Notes	4

Product Profile

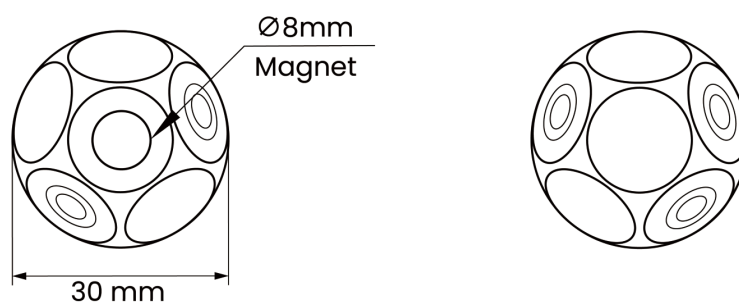
The marker block kit is a tracking aid that provides multiple reference points from various angles during 3D scanning. It facilitates quick setup of a marker-rich environment, enhancing Marker Tracking alignment. The kit's various shapes allow for the creation of reference points at complex angles, enabling accurate stitching of captured frames. The reusable blocks can be easily combined to fit different scanning needs.

What's in the Box

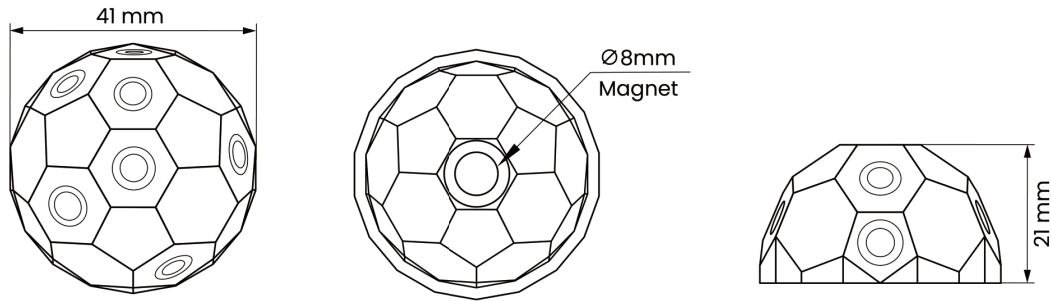


Kit Contents

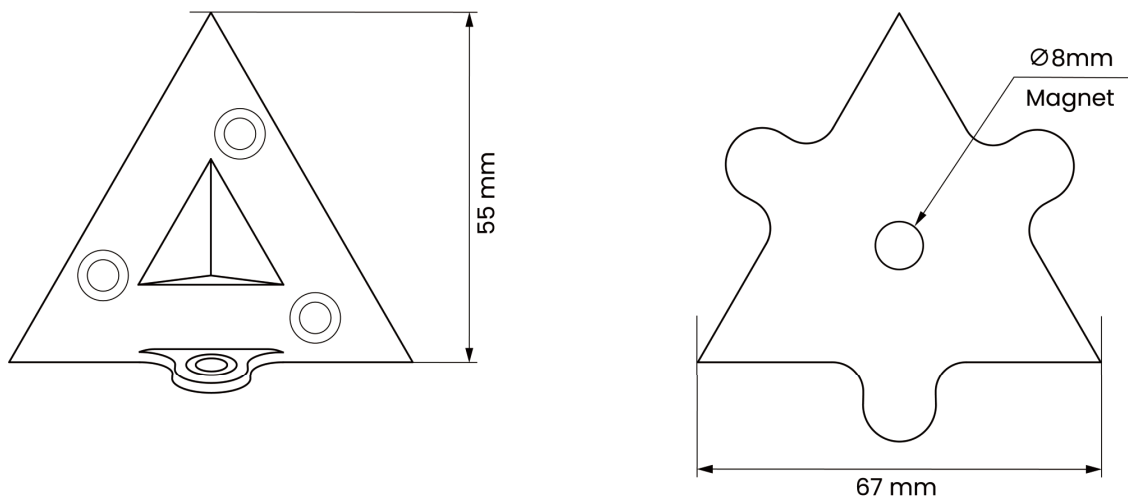
① **Ball Marker:** This small black ball has 12 faces with randomly attached markers (6 mm) and one with a magnetic block. Its minimal contact area makes it ideal for positioning on complex or uneven surfaces.



② **Dome Marker:** This black hemisphere marker (6 mm) has randomly scattered markers on its surface and a magnetic block on the flat bottom. It works best on large, flat surfaces without distinct geometric features, such as car door panels or tabletops.



③ **Pyramid Marker:** This black, equilateral pyramid marker (6 mm) has scattered surface markers and a magnetic block on the bottom. It's ideal for large, flat surfaces without distinct features. Its small top contact area allows it to support an object, facilitating multi-angle scanning.



④ **Bar Marker:** This black, long rectangular block has a 1/4" threaded hole and screws at its ends. It can be attached to objects with a 1/4" hole or screwed into the Dual-axis turntable. Also, highly reflective markers or other magnetic marker blocks can be attached to it. To prevent tracking errors, please avoid rotating the turntable while using the bar marker.



⑤ **Markers (Inner Diameter - 6 mm Outer Diameter - 10 mm):** Place the Markers on the marker blocks or objects to provide trackable points for the scanner, facilitating smooth stitching and point cloud capture when scanning.

How to Use

- ① Combining different marker blocks can improve the scanner's tracking performance. The blocks can either be fixed to the object's surface or placed around the object.
- ② Distributed the marker blocks evenly in the scanning area so the scanner detects at least five markers per frame. At each angle of the scanned object, at least five markers must face the scanner directly.



Note: To prevent tracking errors, please avoid rotating the turntable while using the bar marker.

- ③ When scanning larger or geometrically regular objects, you should select the appropriate marker blocks based on your specific needs and combine them with high-reflection markers to ensure stable tracking during the scanning process.
- ④ Place the marker blocks in areas less likely to be obstructed during scanning. If marker blocks are obstructed, the scanner may not be able to detect its markers, leading to tracking loss.
- ⑤ Secure the marker blocks by laying them flat, using adhesive putty, or magnetic attachment, to make sure they stay in place and don't move or fall off during scanning.
- ⑥ Replace markers on marker blocks with Revopoint's highly reflective markers. Mixing different sizes isn't recommended as it can affect scanning accuracy.



Important Notes

- ① The marker blocks should be stored in their case to prevent scratches or damage.
- ② Ensure the marker blocks are clean and free of oil, dust, or other debris, as these can affect their recognition and extraction.
- ③ The markers on the blocks should remain clear and intact. If there is any wear or fading that could affect recognition, you can replace them with the new markers in the kit.
- ④ The pyramid markers have sharp edges. Please handle them with care to avoid injury.
- ⑤ Avoid placing a single marker block when setting up a scan to prevent incorrect stitching of the scanned objects.

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