

TECHNICAL DATASHEET

AESUBdots HIGH RETRO easy



Product Overview

Product Name:
AESUBdots HIGH RETRO easy

Product Type:
HIGH Retroreflective Reference Markers /
Target Dots for 3D Scanning

Manufacturer / Brand: AESUB

Product Family:
Reference Points / Scanning Targets

Typical Use: High Precision Marking and
referencing 3D objects for digitization with
laser light scanners.



Product Description

AESUBdots high-reflective 3D scanning targets are specialized markers that significantly enhance the accuracy and efficiency of 3D scanning workflows. With retro-reflective properties, these targets reflect light back to its source, improving the scanner's ability to identify reference points, especially on complex or large surfaces.

Their high reflectivity makes them ideal for applications requiring precise reference points, such as when scanning objects over long distances.

These high-reflective targets assist in aligning multiple scans seamlessly, creating a unified 3D model crucial for precision-focused tasks like quality control, reverse engineering, and product design. For optimal results, it's essential to follow best practices in applying these targets, including careful distribution and placement on the object, to maintain accurate scanner positioning throughout the process.

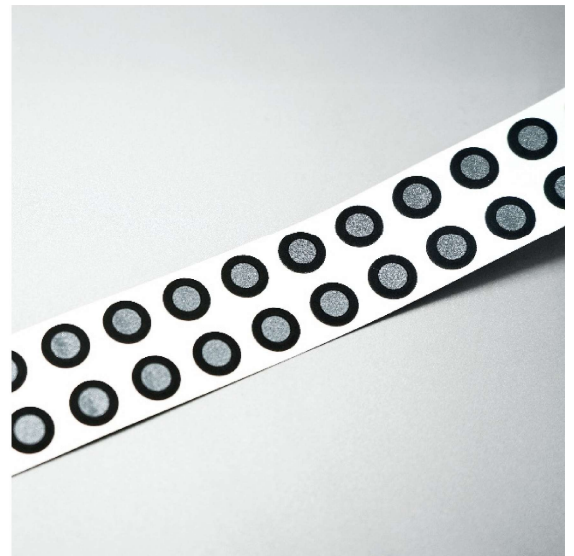


Key Features

- **Retroreflective:** Provides strong return signal for laser-light scanners.
- **Self-adhesive:** Normal-tack adhesive ensures secure placement on sprayed surfaces. Specs
- **Roll format:** 3000 pieces per roll (per diameter variant)
- **Dual-lane layout:** Two parallel tracks of dots per roll for ease of application.
- **Multi-diameter options:** Available in 3 mm, 6 mm, and 12 mm (1.500dots per roll) inner diameters.
- **Ideal for digitization:** Enhances referencing accuracy and robustness in 3D scanning processes.
- **Spray compatible:** Works effectively with all AESUB vanishing scanning sprays.

Specifications

Marker Type	HIGH - Retroreflective Reference Target
Adhesive Type	Normal adhesion
Diameter (Inner)	3 mm, 6 mm, 12 mm
Quantity per Roll	~3000 pieces
Roll Layout	Two parallel lanes
Material	HIGH - Retroreflective print / polymer on adhesive backing
Compatibility	Laser light 3D scanners
Packaging Form	Coiled roll
Color / Visual	Silver-grey with black high retroreflective outer ring
SKU / Part Codes	Varies by diameter variant (e.g., AESD203HR for 3 mm)
Industry Standards	Designed for optical reference detection systems
Storage	Store dry, moderate temperature
Country of Origin	EU / (Manufacturer region)





Applications

Primary Uses:

- Reference point placement for 3D scanning and digitization.
- Improving scan alignment, registration, and merge accuracy.
- Quality inspection and metrology workflows.
- Reverse engineering of complex parts.

Typical Industries:

- Automotive and aerospace inspection
- Heritage and cultural artifact digitization.
- Manufacturing and quality assurance.
- Prototyping and design verification.
- Medical device scanning and modelling.

Usage Notes

Preparation:

- Clean and, if needed, apply AESUB vanishing scanning spray to the surface to ensure optimal contrast and marker performance.
- Choose appropriate target positions according to scanner requirements, object size, and scanning distance.

Application:

- Unroll the perforated roll and tear off segments as needed.
- Press dots firmly onto target areas where the scanner will reliably detect reference points.

Scanning:

- Ensure even spacing and coverage suitable for object geometry.
- Avoid placing targets on high curvature that causes distortion.

Post-scan:

- Easy variants will remain adhered; removal may require careful peeling depending on surface and adhesive.
- Surface cleaning recommended where removal may leave adhesive residues.

Packaging & Contents

Standard Packaging Includes:

- 1 × Roll of AESUBdots HIGH - Retro easy markers
- ~3000 individual reference dots per roll (size variant dependent)
- Perforated, two-lane arrangement on flexible backing.

Packaging may vary by distributor and region. Additional shipping labels or instructions provided by seller. (comprise.de)



Compatibility

Compatible With:

- All common laser light 3D scanners using optical reference detection.
- AESUB vanishing scanning sprays (for optimal surface preparation).
- Major handheld and industrial laser scanning solutions.
- Not limited to any single scanner brand; the high retro-reflective targets are designed for universal detection with compatible laser light scanning systems.

Safety & Handling

- Non-hazardous under normal use conditions.
- Avoid ingestion; not suitable for children.
- Light adhesive effect is designed for easy removal; test on sensitive surfaces before application.
- Store in a cool, dry environment away from direct sunlight.
- Dispose of used backing in appropriate waste stream; recycling varies by local regulations.

Ordering & Part Numbers

Available Variants (Typical):

- AESUBdots HIGH - Retro easy – 3 mm — ~3000 markers/roll
- AESUBdots HIGH - Retro easy – 6 mm — ~3000 markers/roll
- AESUBdots HIGH - Retro easy – 12 mm — ~1500 markers/roll

Exact part numbers / EANs vary by reseller. For specific ordering codes, check distributor catalog or request from AESUB sales. (comprise.de)

Scanningspray Vertriebs GmbH

Johann-Strauß-Str. 13 | 45657 Recklinghausen – Germany | info@aesub.com

aesub.com