## AESUB Scanning Sprays

## AESUB Scanning Sprays

| Product | AESUB Blue | AESUB Violet | AESUB Orange | AESUB Diamond | AESUB White | AESUB Transparent | AESUB Violet | AESUB Green | AESUB Yellow |
|---|---|---|---|---|---|---|---|---|---|
| Delivery form: | aerosol can 400 ml | aerosol can 400 ml, 100 ml | aerosol can 400 ml, 100 ml | aerosol can 200 ml | aerosol can 400 ml | aerosol can 400 ml | bulk 1 L, 5 L, 200 L | bulk 1 L, 5 L, 200 L | bulk 200 ml |
| Measurement volume: | S-M | S-M | S-L | XS-S | S-XL | S-M | L-XL | L-XL | XS-S |
| Application: |  |  |  |  |  |  |  |  |  |
| Spraying distance: | 15-20 cm | 15-20 cm | 15-20 cm | 5-10 cm | 15-20 cm | 15-20 cm | 15-20 cm | 15-20 cm | 5-10 cm |
| Coating: | vanishing | vanishing | vanishing | vanishing | permanent | vanishing | vanishing | vanishing | vanishing |
| Effective scan time: | 1-2 h | 2-6 h | 4-8 h | 10 min | permanent | 1-2 h | 2-6 h | 1-2 h | 2-4 h |
| Sublimation time: | 4 h | 24 h | 12-24 h | 15-30 min. | -- | 4 h | 24 h | 6 h | 4-6 h |
| Colour: | white | white | white | white | white | transparent | white | white | white |
| Contain pigments: | no | no | no | no | yes | no | no | no | no |
| Contain titan dioxide: | no | no | no | no | no | no | no | no | no |
| Layer thickness: | 8-15 µm | 4-8 µm | 2–6 µm | 2 µm | 7 µm | 15-20 µm | 4-8 µm | 10-20 µm | 0.5-1 µm |
| Adhesion of reference points: | yes | yes | yes | yes | no | yes | yes | yes | yes |
| Coverage area: | 4 $m^2$ / can | 4 $m^2$ / can | 4 $m^2$ / can | 2 $m^2$ / 200 ml | 4 $m^2$ / can | 4 $m^2$ / can | 15 $m^2$ / L | 15 $m^2$ / L | 2 $m^2$ / 200 ml |
| Optimal processing temperature | 21°C (69.8°F) | 21°C (69.8°F) | 21°C (69.8°F) | 21°C (69.8°F) | 21°C (69.8°F) | 21°C (69.8°F) | 21°C (69.8°F) | 21°C (69.8°F) | 21°C (69.8°F) |
| Shelf life: | 5 years | 5 years | 5 years | 5 years | 5 years | 5 years | 5 years | 5 years | 5 years |
| Packaging unit: | 12 / box | 12 / box | 12 / box | 12 / box | 12 / box | 12 / box | 6 x 1 L / box<br>5 L<br>200 L | 6 x 1 L / box<br>5 L<br>200 L | 12 / box |

## Are you missing a product?

## Contact us, our development never stands still.

## AESUB SCANNING SPRAYS



### BLUE
**FAST-VANISHING**

For short time scanning
Effective scan time from 1 to 2 h



### VIOLET
**VANISHING**

Effective scan time from 2 to 6 h



### ORANGE
**LONG-LASTING, VANISHING**

For long time scanning
Effective scan time from 4 to 8 h



### TRANSPARENT

For capturing colors, mattes surfaces with a transparent film



### WHITE
**WHITE PIGMENT SPRAY**

White coating stays on until you clean it



### DIAMOND
**VANISHING**

Scanning spray for the jewellery industry and small objects

## AESUB SCANNING LIQUIDS



### VIOLET BULK

For large objects
To be used with our spray gun
Effective scan time from 2 to 6 h



### GREEN BULK

For large objects
To be used with our spray gun
Effective scan time from 1 to 2 h



### YELLOW BULK

Extra thin layer, perfect for small scale scanning applications

## AESUB ACCESSORIES



### DOTS

Reference points for laser scanners and structured light scanners



### MEDICAL DOTS

Retroreflective reference points for medical industry



### CONFETTI DOTS

Double-sided metallic dots that you can toss onto areas to scan and easily collect afterward with a magnet



### MAGNETIC DOTS

Reusable retro-reflective targets with a magnetic backing



### CODE.CARDS

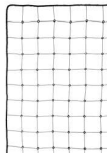
Unique dot patterns cards with 6 mm retro-reflective targets



### DOMES

Magnetic base, M4 threaded insert, and a putty-friendly area for versatile attachment

## AESUB ACCESSORIES



### TARGET NET

Retroreflective reference points for immediate application on medium-sized or large components



### DICE

Dice are available with either a built-in magnet or an M4 thread



### DOTS APPLICATOR GUN

Perfect tool for applying reference points for immediate application



### AIR BRUSH
**FOR AESUB YELLOW**

Perfect tool for applying to small objects and precise scanning applications



### SPRAY GUN
**FOR AESUB GREEN**

For large-scale scans

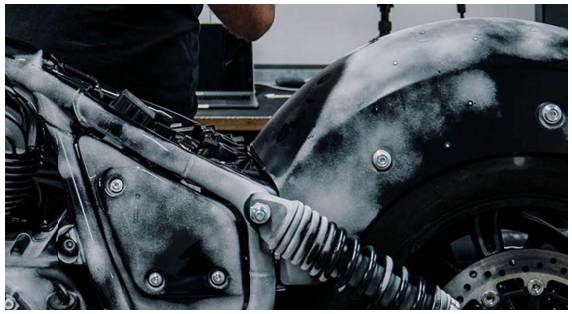


### FRAME

AESUB target frame positions objects for optical measurement quickly and easily

# AESUB BLUE



- Disappearing state-of-the-art scanning spray
- No cleaning required
- Free of pigments – free of titanium dioxide
- Thin & homogeneous coating
- Developed & approved by scanning experts

AESUB blue is a self-vanishing scanning spray developed by scanning experts. The spray evaporates within a few hours, meaning that there is no need for cleaning after scanning. Unlike traditional sprays, AESUB blue does not contain pigments and thus avoids pigment-contamination of sensitive areas, such as laboratories and production sites, equipment and users. You can therefore apply AESUB blue directly, on spot of scanning, without any costly transport to avoid said pigment contamination in sensitive areas. Overall, AESUB blue greatly increases efficiency and productivity within the digitizing processes

## How to apply AESUB blue?

**Layer thickness**
~8-15 µm

**Free of TiO2**

**Effective scan time**
1-2 h

**Delivery form**
Aerosol can 400 ml / 100 ml




# AESUB VIOLET






- Disappearing state-of-the-art scanning spray
- No cleaning required
- Free of pigments – free of titanium dioxide
- Thin & homogeneous coating
- Developed & approved by scanning experts

AESUB Violet is a self-vanishing scanning spray designed by scanning experts for optimal performance. With a scanning time of 2 to 6 hours, AESUB Violet evaporates entirely after use, eliminating the need for post-scan cleaning. Unlike traditional sprays, it is pigment-free, preventing contamination in sensitive areas like labs, production environments, equipment, and for users. This allows you to apply AESUB Violet directly at the scanning site, avoiding costly transport and the risk of contamination. Overall, AESUB Violet significantly enhances efficiency and productivity in digitizing workflows.

## How to apply AESUB violet?

**Layer thickness**
~4-8 µm

**Free of TiO2**

**Effective scan time**
2-6 h

**Delivery form**
Aerosol can 400 ml



# AESUB ORANGE







- Disappearing state-of-the-art scanning spray
- No cleaning required
- Free of pigments – free of titanium dioxide
- Thin & homogeneous coating
- Long-lasting
- Developed & approved by scanning experts

AESUB orange is a long-lasting self-volatilizing scanning spray developed by scanning experts. It eliminates basic application problems of 3D metrology, especially in sensitive areas (laboratories, production, etc.) and protects the equipment from contamination by deposition of pigments. Expensive transports of externally matted measuring objects to the sensor as well as the time-consuming cleaning of the measuring environment and objects after scanning are no longer necessary. With AESUB orange, you achieve a significant increase in efficiency and productivity in the entire digitization process.

## How to apply AESUB orange?

**Layer thickness**
~2-6 µm

**Free of TiO2**

**Effective scan time**
4-8 h

**Delivery form**
Aerosol can 400 ml / 100 ml




# AESUB TRANSPARENT






- Disappearing state-of-the-art scanning spray
- Fine, semi-transparent layer
- Perfect for colour capture
- No cleaning required
- Free of pigments – free of titanium dioxide
- Developed & approved by scanning experts

AESUB transparent is a self-vanishing dulling spray developed by scanning experts. It creates a matte but still visible layer that is suitable for use with photogrammetry, Lidar, or other color-capturing scanning methods. The spray evaporates within a few hours, which means that there is no need for cleaning after scanning.

AESUB transparent can be applied directly to the spot of scanning, making it a convenient and time-saving tool for professionals in the digitizing process. Overall, AESUB transparent can greatly increase efficiency and productivity in the scanning industry.

## How to apply AESUB transparent?

**Layer thickness**
~8-15 µm

**Free of TiO2**

**Effective scan time**
1-2 h

**Delivery form**
Aerosol can 400 ml



# AESUB DIAMOND






- Disappearing state-ofthe-art scanning spray for the jewellery industry
- Thin & homogeneous coating
- No cleaning required
- Free of pigments – free of titanium dioxide
- Developed & approved by scanning experts

AESUB diamond is a cutting-edge solution tailored for the jewellery industry. Developed by scanning experts, AESUB diamond is a revolutionary self-vanishing scanning spray designed to enhance your scanning experience.

Unlike conventional sprays, AESUB diamond is pigment-free, ensuring zero pigment contamination in crucial areas like scanner, equipment, and users. With its unique formulation, AESUB diamond eliminates the need for cleaning after scanning, as it naturally evaporates within abt. 10 minutes.

This means you can scan rings and other jewellery items, applying AESUB diamond directly on the spot, without worrying about transporting them to prevent pigment contamination.

By choosing AESUB diamond, you're not just investing in a product; you're investing in efficiency and productivity. Experience seamless digitizing processes, streamline your workflow, and elevate your productivity to new heights. AESUB diamond is the ultimate solution for efficient and hassle-free scanning in the jewellery industry.

## How to apply AESUB diamond?

**Layer thickness**
~2 µm

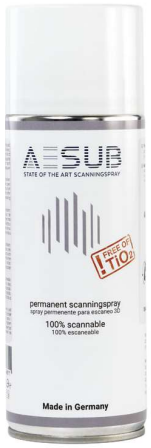
**Free of TiO2**

**Effective scan time**
10 min

**Delivery form**
Aerosol can 200 ml




# AESUB WHITE






- Permanent scanning spray
- Contains pigments
- Thin & homogeneous coating
- Free of titanium dioxide
- Developed & approved by scanning experts

AESUB white is a white pigment scanning spray developed by scanning experts. It is the result of consistent further development of permanent scanning sprays. The spray applies a homogeneous, thin matting layer onto the surface of the object. It is developed for optimal contrast values in optical scanning applications. AESUB white contains pigments,

propellant and solvent and has been optimized with regards to material compatibility. AESUB white sets new standards by optimizing the surface's homogeneity and reducing layer thickness. Unlike traditional sprays, AESUB white is free of titanium dioxide, associated with cancerogenic incidents through inhalation by the European Chemicals Agency.

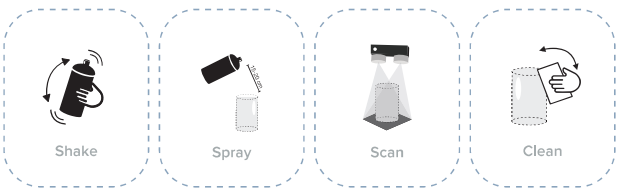
## How to apply AESUB white?

**Layer thickness**
~7 µm

**Free of TiO2**

**Effective scan time**
permanent

**Delivery form**
Aerosol can 400 ml



# AESUB YELLOW






- Disappearing state-of-the-art scanning spray
- Bulk for airbrush system
- Perfect for small scale scanning applications
- Developed & approved by scanning experts
- Free of pigments – free of titanium dioxide
- No cleaning required
- Thin & homogeneous coating

AESUB yellow is a self-volatilizing scanning spray liquid developed by scanning experts. It eliminates basic application problems of 3D metrology, especially in sensitive areas (laboratories, production, etc.) and protects the equipment from contamination by pigment deposition. Expensive transports of externally matted measuring objects to the sensor as well as the time-consuming cleaning of the measuring environment and objects after scanning are no longer necessary. With AESUB yellow, you achieve a significant increase in efficiency and productivity in the entire digitization process.

# How to apply AESUB yellow?

**Layer thickness**
~0.5-1 µm

**Free of TiO2**

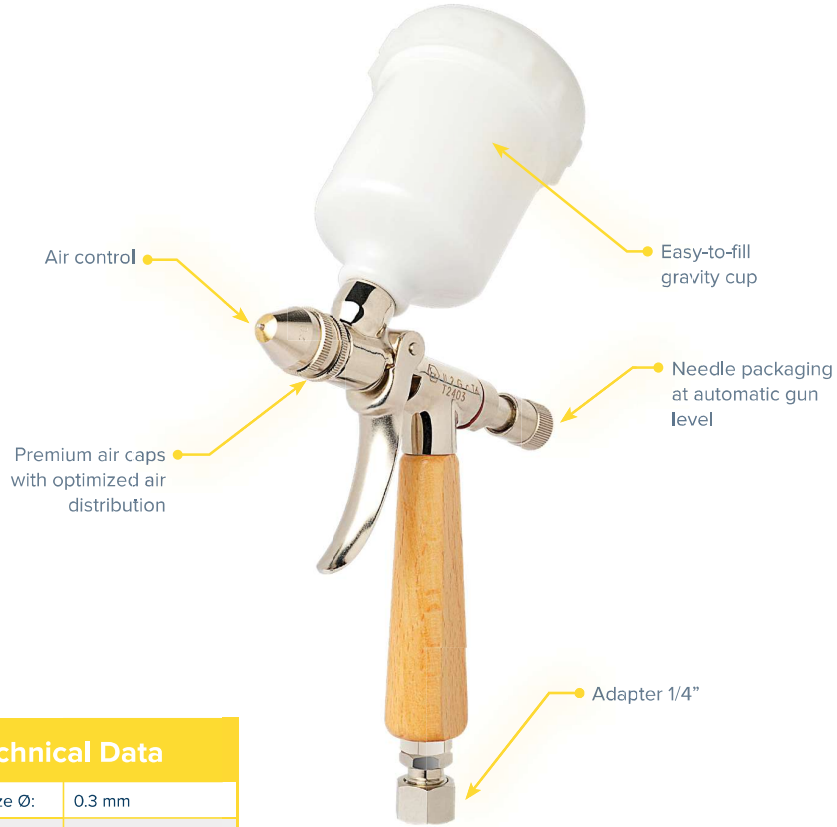
**Effective scan time**
2-4 h

**Delivery form**
bulk 200 ml




# AESUB YELLOW AIRBRUSH

The AESUB yellow airbrush is the perfect tool for applying AESUB yellow to small objects and precise scanning applications.




## Technical Data

| | |
|---|---|
| Jet nozzle size Ø: | 0.3 mm |
| Pressure: | recomm. 1 bar (14.5 PSI) |
| Cup volume: | 125 ccm (4.22 fl.oz.) |
| Weight: | 260 g (9.17 oz.) |
| Adapter: | 1/4” |

# AESUB GREEN






- Disappearing state-of-the-art scanning spray
- Bulk for spray gun
- Perfect for large scale & automated scanning applications
- Free of pigments – free of titanium dioxide
- No cleaning required
- Thin & homogeneous coating
- Developed & approved by scanning experts

AESUB green is a self-volatilizing scanning spray liquid developed by scanning experts. It eliminates basic application problems of 3D metrology, especially in sensitive areas (laboratories, production, etc.) and protects the equipment from contamination by pigment deposition. Expensive transports of externally matted measuring objects to the sensor as well as the time-consuming cleaning of the measuring environment and objects after scanning are no longer necessary. With AESUB green, you achieve a significant increase in efficiency and productivity in the entire digitization process.

# How to apply AESUB green?

**Layer thickness**
~10-20 µm

**Free of TiO2**

**Effective scan time**
1-2 h

**Delivery form**
bulk 1L, 5L, 200L




# AESUB VIOLET






- Disappearing state-of-the-art scanning spray
- Bulk for spray gun
- Perfect for large scale & automated scanning applications
- Free of pigments – free of titanium dioxide
- No cleaning required
- Thin & homogeneous coating
- Developed & approved by scanning experts

AESUB Violet is a self-vanishing scanning spray liquid designed by scanning experts for optimal performance. With a scanning time of 2 to 6 hours, AESUB Violet evaporates entirely after use, eliminating the need for post-scan cleaning. Unlike traditional sprays, it is pigment-free, preventing contamination in sensitive areas like labs, production environments, equipment, and for users. This allows you to apply AESUB Violet directly at the scanning site, avoiding costly transport and the risk of contamination. Overall, AESUB Violet significantly enhances efficiency and productivity in digitizing workflows.

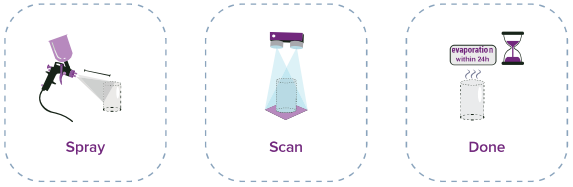
# How to apply AESUB violet?

**Layer thickness**
~4-8 µm

**Free of TiO2**

**Effective scan time**
2-6 h

**Delivery form**
bulk 1L, 5L, 200L



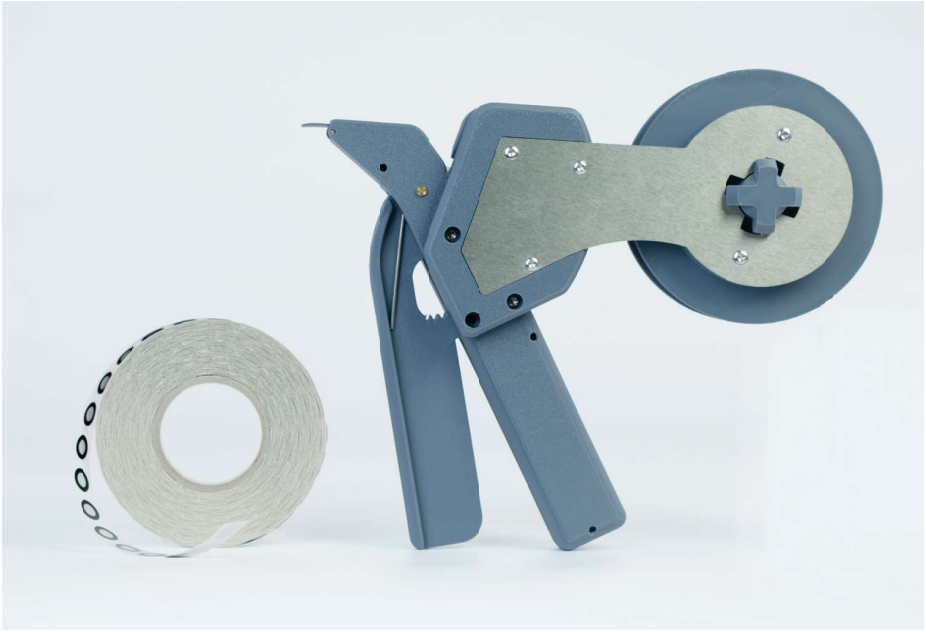
# AESUB SPRAY GUN

Applying AESUB green with the AESUB green Spray Gun results in a very fine and homogeneous surface, which is particularly suitable for large-scale scans




| Technical Data | |
|---|---|
| Jet nozzle size Ø: | 1.0 mm |
| Wetted parts: | stainless steel |
| Airinlet: | G 1/4” |
| Materialinlet: | G 3/8” |
| Airinlet pressure: | recomm. 3-4 bar (0.2-0.3 PSI) max. 8 bar (116 PSI) |
| Cup volume: | 500 ccm (17.5 fl.oz.) |
| Weight: | 486 g |
| Adapter: | 1/4” |

# AESUBDOTS APPLICATOR GUN



## FAST FACTS

- The invention and development of the dots applicator gun is by AESUB
- Comes with AESUBdots roll featuring a single line of dots.
- The perfect tool for applying reference points instantly — this gun makes dot application quick and effortless

The AESUBdots Applicator Gun is a revolutionary tool that transforms the way 3D scanning dots are applied. Never before has there been a solution like this! If you’re tired of manually placing thousands of dots, this game-changer is for you. Simply load a roll of dots into the gun, and you’re set to go. With this tool, placing dots becomes effortless and highly efficient, making the scanning preparation process smoother and faster than ever before.

# AESUB DOTS




| AESUBdots black & white PERMANENT | AESUBdots retro-reflective PERMANENT | AESUBdots retro-reflective EASY REMOVABLE | AESUBdots retro-reflective INFINITY |
|---|---|---|---|
| • For structured light scanners<br>• Strong adhesive effect<br>• Coiled on roll<br>• Perfect for application on all vanishing AESUB sprays | • For laser scanners<br>• Coiled on roll<br>• Perfect for application on all vanishing AESUB sprays | | • For laser scanners<br>• Coiled on roll<br>• Perfect for application on all vanishing AESUB sprays<br>• Retro-reflective targets placed in a random pattern on clear tape.<br>• Easy, simple and fast to remove. |
| **AVAILABLE DIAMETER Ø** | | | |
| 1.5 mm<br>3 mm<br>5 mm<br>6 mm<br>8 mm<br>10 mm<br>12 mm | 3 mm<br>6 mm<br>12 mm | | 6 mm |



# AESUB DOTS INFINITY








The placing of reference points required for 3D scanning of large-sized parts such as yachts, cars or big machine components is time-consuming and laborious. AESUB is therefore now offering continuous dots on a roll which can be quickly and easily removed and placed on large areas. The over 25 metre-long, transparent adhesive strip contains retroreflective reference points measuring 6 millimetres all along its length. The dots are distributed across the adhesive strip at irregular intervals of 50 – 70 millimetres.

Because the adhesive tape is perforated at intervals of approx. 50 centimetres, it can be easily adapted to the relevant part size. The transparent film is flexible and adapts to freeform surfaces even without folding.

Within just a few seconds, the continuous dots have been positioned which means that the scanning process can begin immediately. Because the carrier film is transparent and very thin, only the dots are recognised and scanning through the carrier material can occur. After scanning, the adhesive tape can be removed just as quickly and easily.

With large component parts, the continuous dots save several hours of work spent affixing and removing the measurement points.

## AESUB DOTS MEDICAL



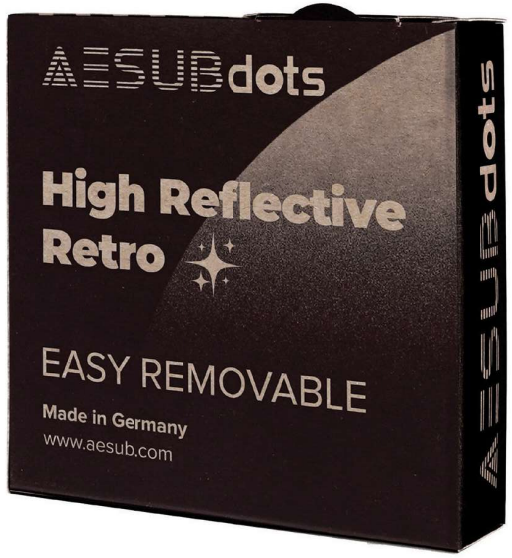

Medical reference targets play a crucial role in achieving precise alignment and calibration during 3D scanning. By strategically placing these targets on the limb or back, the scanner can capture intricate contours, organic shapes, and dimensions accurately — essential for applications such as custom prosthetics, orthotics, and surgical planning.

Application: These targets serve as consistent reference points that scanning software uses to merge multiple scans seamlessly into a unified 3D model.

Benefit: This consistency is especially vital when scanning complex shapes, such as limbs and smooth surfaces like human skin, which often require multiple angles to capture every detail accurately.

AESUBdots Retro Medical are available with a 6 mm inner diameter, designed specifically for this purpose.

## AESUB DOTS HIGH REFLECTIVE RETRO

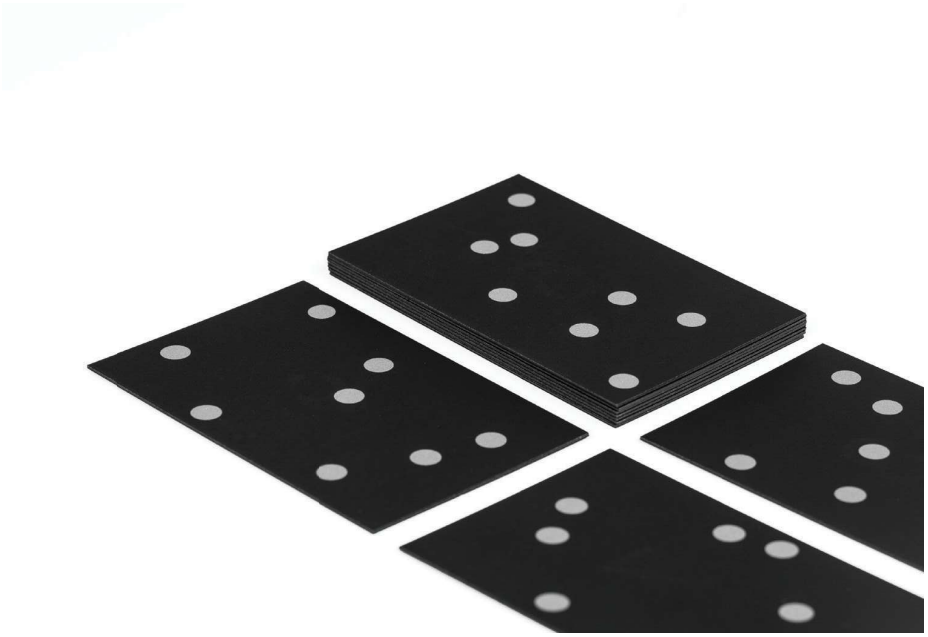



AESUB's high-reflective 3D scanning targets are specialized markers that significantly enhance the accuracy and efficiency of 3D scanning workflows. With retro-reflective properties, these targets reflect light back to its source, improving the scanner's ability to identify reference points, especially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

# AESUB CODE CARDS



AESUB Code Cards are designed with a specific dot pattern that acts as a reliable reference point for 3D scanning, especially when working on projects involving multiple parts. Each card features a unique pattern that allows the scanner to recognize and refer to individual card numbers seamlessly.

Measuring 60x90 mm and embedded with 6 mm retro-reflective targets, these cards are perfect for structured scanning workflows. Packaged in sets of 10, AESUB Code Cards offer an efficient solution for maintaining precision and organization in complex 3D scanning projects.

## FAST FACTS

- 10 cards with individual pattern embedded with 6 mm retro reflective targets
- Reusable essential retro-reflective targets
- 6 mm retro reflective targets
- Size of the cards is 55x85 mm

# AESUB DOMES

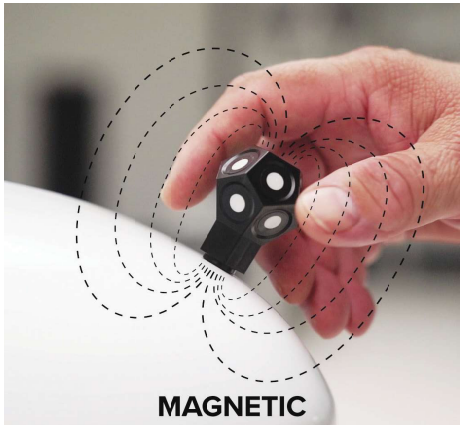


AESUB Domes are quick and efficient 3D scanning targets designed for seamless setup. Similar to AESUB Dice, these domes feature a magnetic base and an M4 threaded insert for secure placement. For even more versatility, a specially designed area allows for the use of putty to attach the domes to various surfaces. Available in sizes ranging from 1.5 mm to 6 mm dots, AESUB Domes provide flexibility for different scanning needs, ensuring precision and adaptability in any project.

## FAST FACTS

- Features a magnetic base, an M4 thread, and a space for applying putty
- Reusable essential retro-reflective targets
- Diameter of the domes are 60 mm
- Can be equipped with dots of various sizes

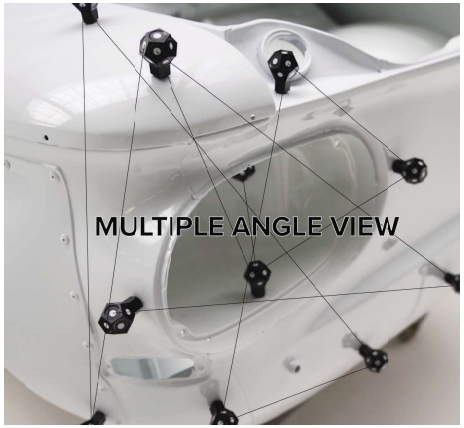
# AESUB DICE

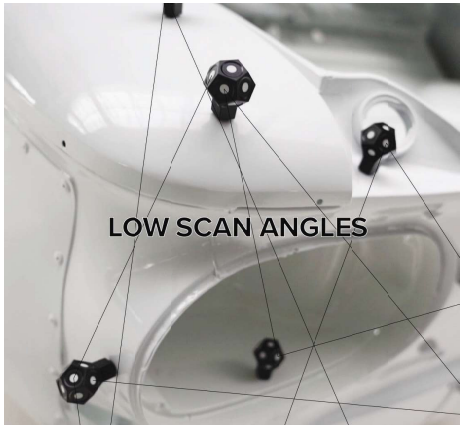


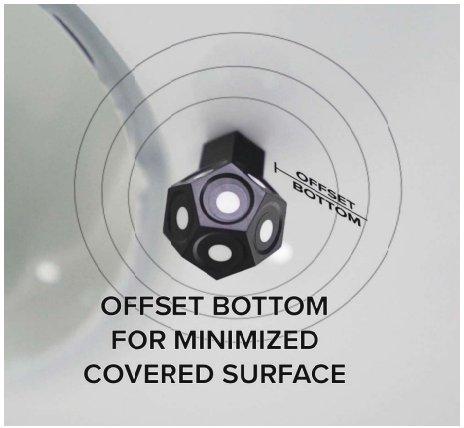







# AESUB DICE








Reference points are essential for capturing intricate details, but challenges arise when markers can't be used due to an object's small size or delicate surface. Additionally, achieving excellent scans with fewer reference points is key, particularly when dealing with part rotation or multiple different views during scanning. This is where AESUB dice come into play.

AESUB dice can accommodate up to 11 x 6 mm retroreflective targets, or even more of 3 mm retroreflective targets. They are available with either a built-in magnet or an M4 thread, and their chamfered bottom minimizes data loss.

These lightweight dice not only enhance the efficiency of 3D scanning for complex objects but also reduce the reliance on reference points.

The magnet quickly attaches to metal surfaces, streamlining scanning preparation. For non-magnetic surfaces, you can use the threaded version or AESUB scan putty to secure the dices.

Next time you're scanning an object on a table surface, simply position a few of these dice around it to significantly improve your workflow.

# AESUB MAGNETIC DOTS







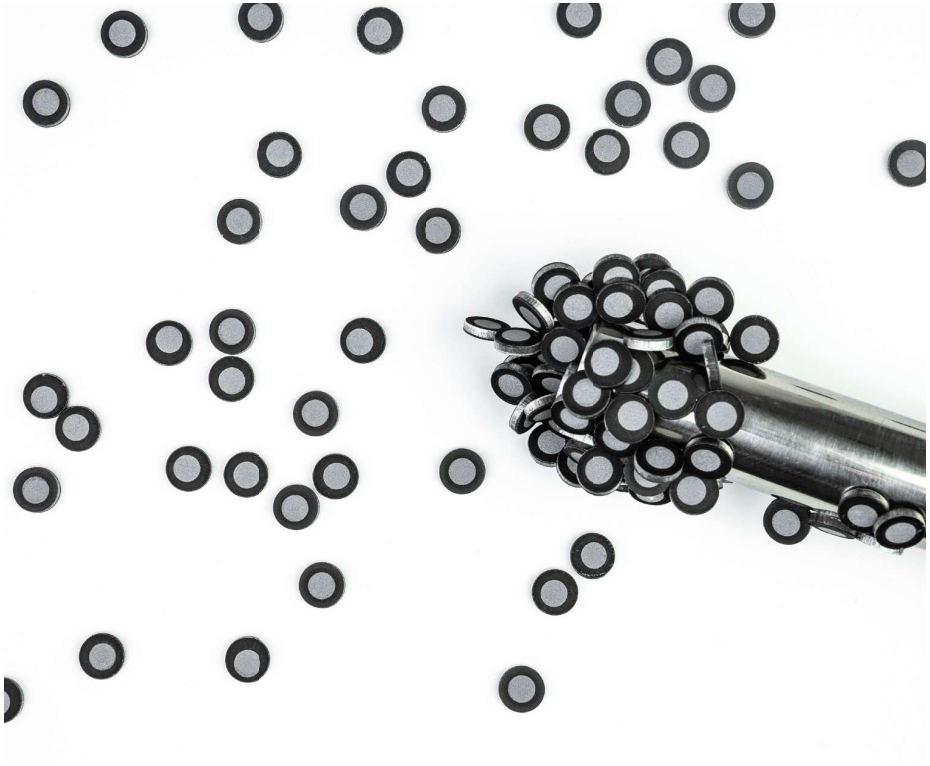


AESUB Magnetic Dots are a cutting-edge solution for 3D scanning, designed with a 6 mm diameter and retro-reflective surface for precise scanning accuracy. These dots feature a magnetic backing, allowing easy placement on any metal surface for efficient scanning preparation. Created by 3D scanning experts, AESUB Magnetic Dots are reusable, offering a sustainable and time-saving approach to setting up scans. Perfect for professionals looking for quick, reliable, and reusable reference points in their 3D scanning workflow.

## FAST FACTS

- Magnetic 6 mm retro reflective targets
- Reusable

# AESUB CONFETTI

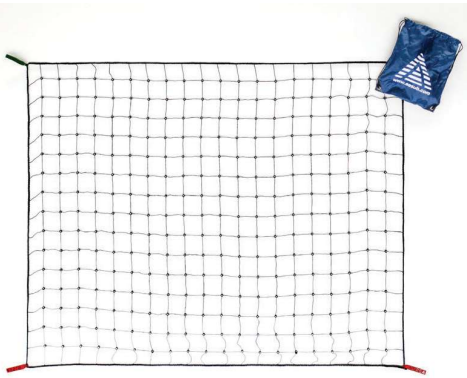


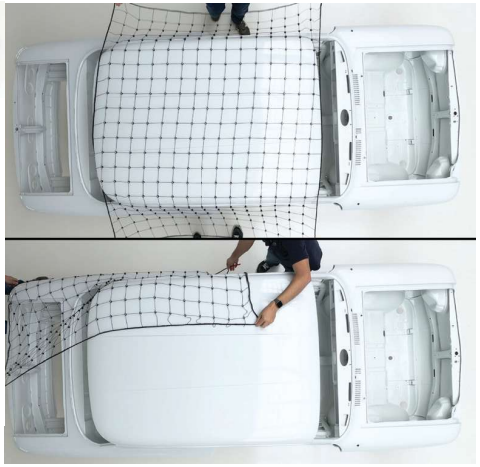
AESUB Confetti is a time-saving and efficient solution for 3D scanning that adds a touch of fun to the process! These metallic dot-coins feature reference points on both sides, making them perfect for scanning complex areas, like car interiors. Simply toss them onto the surface — such as a dashboard or other interior parts — they land in an irregular pattern that enhances scanning accuracy. After scanning, collect the dots effortlessly with a magnet for quick cleanup. AESUB Confetti simplifies the scanning process and brings an element of ease and action to your workflow.

## FAST FACTS

- Double-sided metallic dots that you can toss onto areas to scan
- Reusable essential retro-reflective targets
- 6 mm retro reflective targets on both sides
- Come with a magnet in the set

# AESUB TARGET NET





## FAST FACTS

- Retroreflective reference points for immediate application on medium-sized or large components
- Magnet on each point base
- 300 dots are mounted on a black mesh - 1.50 x 2.00 m (larger dimensions on request)
- Perfect for application on all vanishing AESUB scanning sprays & liquids
- Removing the points is not necessary
- Reusable

Sticking and removing dots has never been so easy thanks to the AESUB target net with its magnetic targets! Unfold and position the AESUB target net in less than 20 seconds. Scan in the usual manner and use standard post-processing routines to easily remove single elements and points of the AESUB target net in the post processing. Remove the net in just seconds!

# AESUBdots FRAME





## FAST FACTS

- Two different diameters: 200 / 300 mm, Sizes up to 600 mm are available
- 100 mm extension beams to create larger frames according to workpiece size
- Octagonal shape to optimize the reference marker visibility

The new target frame from AESUB sets objects into position for optical measurement in just a few steps. A modular set allows to assemble target frames with a diameter of 200 mm or 300 mm. The frame is additively manufactured with plug and screw connections directly integrated to it. It can be, therefore, assembled without additional tools. As the frame is printed in black, no chemical finishing by colouring or anodizing is needed. All elements are compactly packed into one case, making the entire set ideal for mobile use.

## AVAILABLE SETS

**AESUB target frame starter set 200:**
1x diameter frames (200 mm) + accessories

AESUB target frame starter set 300:
1x diameter frames (300 mm) + accessories

AESUB frame complete set:
1x diameter frames (200 mm) + accessories
1x diameter frames (300 mm) + accessories
transport case