

# Passive Radar

## TRIHEDRAL CORNER REFLECTOR

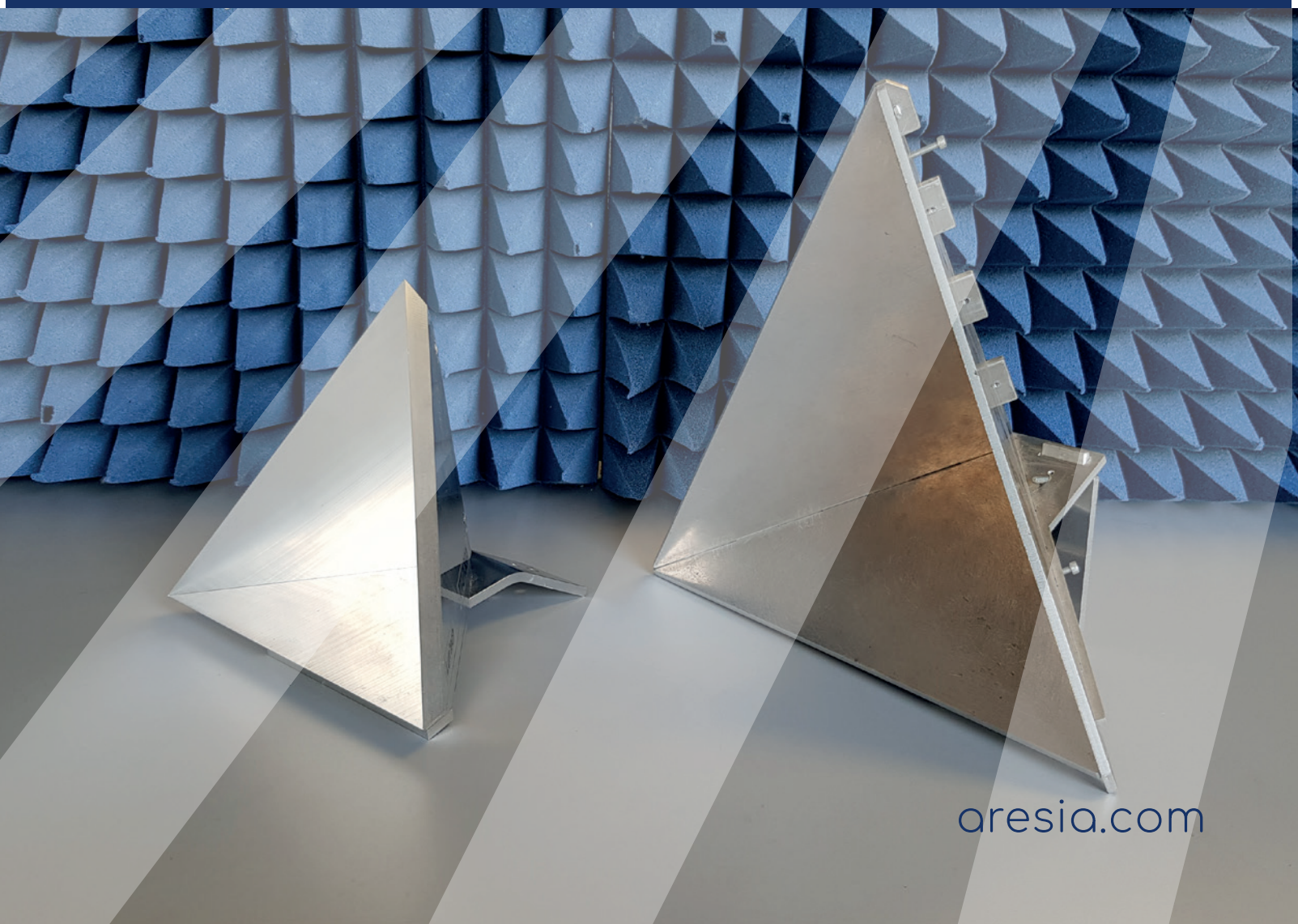


/ Frequency from 1 to 100 GHz

/ Simple mechanical performance

/ High directivity & gain

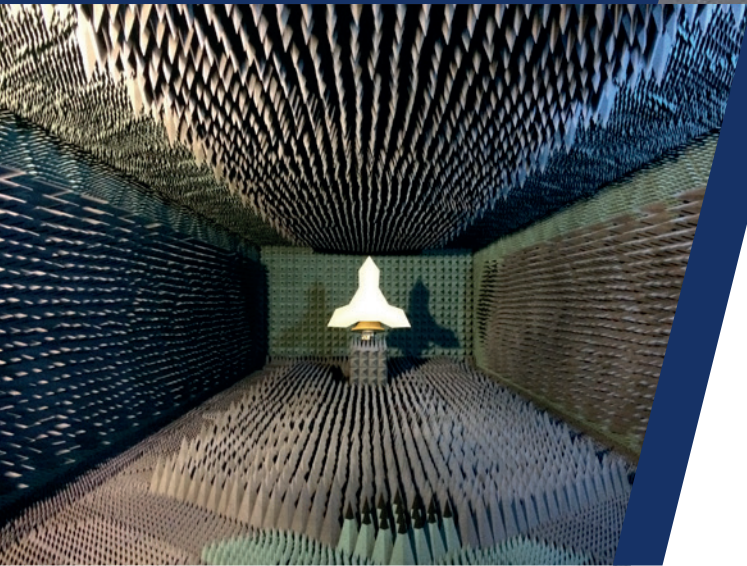
/ Wide Range of available  
beamwidths & reflector sizes



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# TRIHEDRAL CORNER REFLECTOR

## Maximise radar visibility



### R.C.S. Customizable product

### Wide frequency range

### High R.C.S. level

#### Range features:

- Type: monostatic
- Polarization: rectilinear
- Radar frequency - trihedral: 1 to 20 GHz
- Radar frequency - trihedral precision: 20 to 100 GHz
- Viewing Angle: 20 or 40° in azimuth & elevation

## DESCRIPTION

Trihedral Corner reflectors are used to achieve radar cross section enhancement. The trihedral reflectors are an assembly of 3 perpendicular aluminum plates, which reflect the waves directly towards the source but translating them.

A Trihedral Corner reflector is a passive device used to reflect radio waves back toward the transmit source over a viewing angle of 20° degrees. Our corner reflectors are manufactured of aluminum and supplied with mounting brackets. The trihedral corner reflector simulates radar target precisely and is widely used for radar system calibration.

Depending on the application, particular attention is paid to the mechanical assembly of the so-called «precision» trihedrals to ensure precise squareness between all the faces of the trihedral. Precision trihedral reflectors are mainly of interest for use in frequency bands above 20 GHz.

## APPLICATIONS

- Calibration
- Test Chambers
- Surveillance Equipment
- Communication System
- Automotive radar applications

	Trihedral (TT)	Offset Trihedral (TTO)	Precision Trihedral (TTU)	Offset Precision Trihedral (TTOU)
Frequency	1-20 GHz	1-20 GHz	20-100 GHz	20-100 GHz
Dimensions	10 to 200 cm	10 to 200 cm	4 to 50 cm	4 to 50 cm
Aperture angle	20°	40°	20°	40°



The technical data contained in this document is presented for reference. For more information, please contact:

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