

DRAC  
KAMPER



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**Large Deployable Reflectors** (1-5m aperture) for next-generation space missions – an IPR-protected design under development for ESA's Copernicus program. Scalable up to 20 meters, enabling advanced telecommunication, reconnaissance, and Earth observation.



# DRAC

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# LARGE DEPLOYABLE REFLECTORS 1-5 M

Parameter	Specification
<b>Frequency Range</b>	Up to Ka-band
<b>Deployed Geometry</b>	
Projected Diameter	1 m
Focal Length	1 m
Center Offset	0.6 m
Height Deployed	0.3 m
<b>Surface Accuracy (RMS)</b>	< 0.25 mm
<b>Stowed dimensions</b>	
Height	0.19 m
Diameter	0.087 m
<b>Mass</b>	
Stowed Reflector	2.6 kg
Deployed Reflector	1.13 kg
<b>Structural Stiffness</b>	
In Stowed Configuration	> 150 Hz
In Deployed Configuration	> 1.4 Hz

Parameter	Specification
<b>Frequency Range</b>	Up to K-band
<b>Deployed Geometry</b>	
Projected Diameter	1 m
Focal Length	1 m
Center Offset	0.8 m
<b>Surface Accuracy (RMS)</b>	< 0.3 mm
<b>Stowed dimensions</b>	
Height	0.56 m
Diameter	0.092 m
<b>Mass</b>	
Stowed Reflector	3 kg
Deployed Reflector	1.6 kg
<b>Structural Stiffness</b>	
In Stowed Configuration	> 100 Hz
In Deployed Configuration	> 1 Hz

## Use Cases

- Earth observation and communications antennas for small and medium sized satellites
- Military reconnaissance programs in SAR, SigInt

## Key Benefits

- Fully European sourced and managed
- High reliability demonstrated through ESA program
- ECSS conformity demonstrated in ESA project

## Key Features

- Mesh antennas deployed by expandable, peripheral ring
- Frequency range up to Ka-band
- Flight model in manufacturing/validation
- In orbit operation expected in 2029 (CIMR)
- Intellectual property rights for LDR design