

**PSIONIC SPACE**

# NAVIGATIONAL SENSORS

Advanced Doppler Lidar for Commercial Space

Reduce Operational Risk, Obtain  
Efficiencies, Enhance Safety

10km+ Precise Ranging for  
Rendezvous & Docking Missions

Advanced Lidar Sensing  
from Psionic

Psionic advanced Doppler lidar technology  
developed by NASA and available for  
commercial space applications

Only from Psionic



# Different Market Segments Consistent Need

Enhancing Operational Success



## Launch Services

Reduce fuel and increase monetizable payload, each and every launch, with precise navigational sensing



## On-Orbit Servicing

Approach faster with more confidence and less risk for proximity operations and rendezvous & docking missions



## Mining Missions

When every last kilogram counts, decrease risk to your entire mission and return safely with high-value spacecraft and cargo

### Mission Type

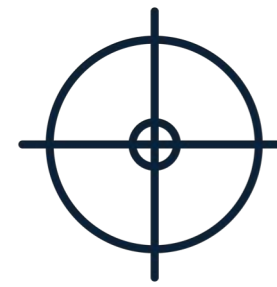


#### Multiple Mission Types

Attachable to rockets, boosters, satellites, space-stations, landers

- ❖ Reusable boosters
- ❖ Rendezvous and docking
- ❖ Proximity operations
- ❖ Landing planetary bodies

### Operational Benefits



#### Operational Benefits

More than enhancing radar guidance, increasing confidence and reducing mission risk

- ❖ Reduce fuel requirements, increase payloads
- ❖ Increase efficiency by navigating in less time, enhance safety
- ❖ Increase precision, reduce operational risk

### Advanced Lidar



#### NASA born, only from Psionic

Originally developed by NASA for autonomous surface landing in complex, alien environments

- ❖ 10+ years development
- ❖ \$60M+ investment
- ❖ TRL 6/7 technology
- ❖ TRL 8 expected in 12-18 mos
- ❖ Small SWaP footprint
- ❖ Extended range



# Psionic Space Sensors

Reducing Risk & Increasing  
Efficiency for Commercial  
Space Platforms

Originally developed by NASA, Psionic's  
Doppler lidar technology provides superior  
performance for space applications.

[www.psionic.ai](http://www.psionic.ai)

