



# MISSE

## Multi-purpose International Space Station Experiment

# How Will You Fly MISSE?

## MISSE: External Commercial Platform on ISS

Our commercial Space Testing as a Service (STaaS™) provides customers with a consistent, completely turnkey way to perform technology demonstrations in Earth orbit. Emerging technologies can be easily and rapidly tested in low Earth orbit on Aegis Aerospace's Multi-purpose ISS Experiment (MISSE) platform. In addition, everything flown on MISSE is returned from orbit enabling the customer to conduct post-flight analyses – further advancing a robust understanding of the technology's performance. STaaS™ enables customers to reduce risk, increase Technology Readiness Level (TRL), obtain flight heritage, perform basic science, and obtain easy, consistent, rapid access to space at a reasonable price. Commercial and easy government contracting is available. Contact Aegis Aerospace for schedule and pricing.

## MISSE Carrier Options

Whether you fly multiple test articles or one large article, our MISSE Sample Carrier (MSC) or MISSE Pallet Carrier (MPC) can accommodate various size needs.

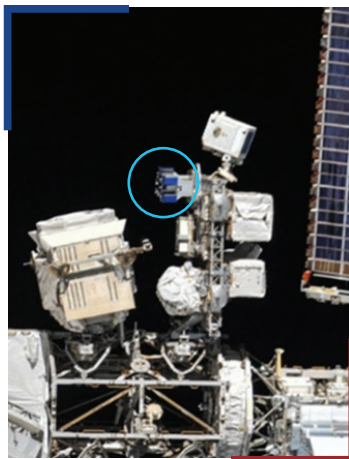
### BENEFITS

- Easy, regular access to orbital testing
- 2 missions every year
- Exposure to the harsh LEO environment with attributes that are impossible to replicate terrestrially e.g., Atomic Oxygen, Thermal Cycling, Radiation, etc.
- Getting hardware back from orbit
- Increasing TRL
- Obtaining flight heritage for your assets
- Reduced risk
- Turnkey – focus on your technology
- Commercial engagement
- Reasonable pricing

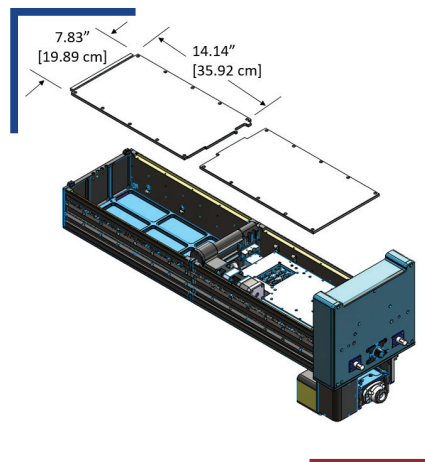
### TEST ARTICLES

- Photovoltaics
- Electronic components (active, passive, electromechanical)
- Subsystems
- Systems
- PCBs
- Processors
- Sensors
- Cameras
- Antennae
- Materials
- Almost anything...

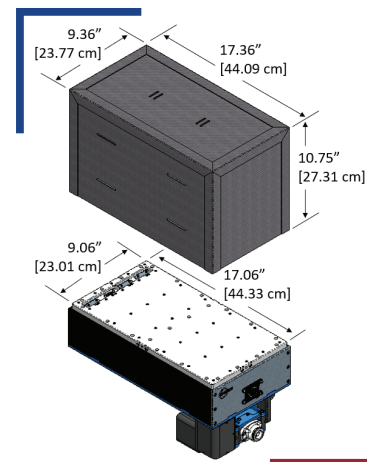
### MISSE on ISS



### MSC



### MPC



Are you ready to fly with Aegis Aerospace?

<https://aegisaero.com/contact-us/#commercial-space-services>





## MISSE Carrier Options - Specifications

Learn more about the technical capabilities of our MISSE Sample Carrier (MSC) and MISSE Pallet Carrier (MPC).

TECHNICAL CAPABILITY	MSC	MPC
Maximum Experiment Mass	10 kg / 22 lbs	20 kg / 44 lbs
Maximum Experiment Volume	2950 cm <sup>3</sup> / 180 in <sup>3</sup>	25745 cm <sup>3</sup> / 1571 in <sup>3</sup> (~24U)
Exposure Surface Area	1160 cm <sup>2</sup> / 180 in <sup>2</sup>	N/A
Power	~50W cont 75W peak	~50W cont 75W peak
Data Downlink	5 Mbps (standard)	5 Mbps (standard)
Command/Data Uplink	2 Mbps	2 Mbps
Data File Uplink	100 MB	100 MB
Data Storage Capacity	5 GB per week (standard)	5 GB per week (standard)
Images of Exposed Samples (visible & IR)	Yes	No
Environmental Data		
Temperature Data	Yes	Yes
Contamination Exposure Data	Yes	Yes
Total Ionizing Dose Radiation Exposure	Yes	Yes
Ultraviolet Exposure Data	Yes	Yes
Atomic Oxygen Exposure Data	Yes	Yes
Orbital Orientation	ram, wake, zenith or nadir	ram, wake, zenith or nadir

## ABOUT Aegis Aerospace Inc. & Space Testing as a Service (STaaS™)

Aegis Aerospace Inc. is a Hispanic woman-owned small business headquartered in Houston, Texas that provides technical services and turn-key solutions to commercial, civil, academic and DoD customers in the space and defense industries.

Our unique STaaS™ business model enables our partners to focus entirely on developing their technology, while we do the rest. We integrate our customers' spaceflight hardware/experiment to one of our orbital or lunar platforms, flight certify the package, coordinate launch, perform on-orbit operations, and — for our MISSE low-Earth orbit (LEO) platform — coordinate the return of the flight hardware/experiment to Earth and the owner.

### Our STaaS™ platforms include:

- **MISSE** – External platform on the ISS with a new mission every six months
- **M-1** – 100kg-class free-flying satellite bus for LEO, MEO and GEO
- **RAC** – lunar surface materials testing
- **SSTEF** – lunar surface technology demonstrations



**Are You Ready to  
Reach New Heights?**

Visit our website to learn more  
about Aegis Aerospace, STaaS™,  
and MISSE.

