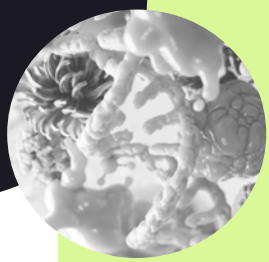
YURI

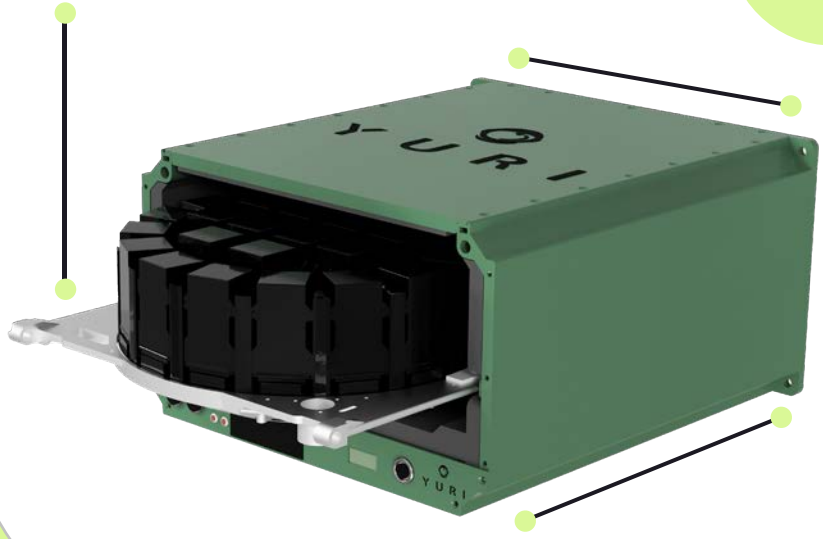
SCIENCETAXI
Your Space Incubator

Interfaces and developments based on ISS SSP 57000 standard

Internal Volume:
length: 400mm
width: 380mm
height: 190mm

Payload mass:
< 33 kg





Life time

8 years of service lifetime

Required Interfaces

- Power supply required from spacecraft: 75W (min) and 150W (max). Additional power can be partially supplied to ScienceShells or to enhance thermal capabilities
- Compatible with normal supply voltage (24-32.5V)
- 8P8C Modular Shielded Jack (RJ-45) data connector

Temperature

- Follows ANSI/IEEE-STD-802.2 100 BASE T Ethernet standard
- Can be provided by internal fans

	Minimum	Maximum
Cooling air flow	12 cfm	36 cfm
Cooling air inlett temperature	18,3 °C	29,4 °C

Capabilities

- Hosts up to 38 experiment units (ScienceShells)
- Designed for orbital platforms (Dream Chaser, Dragon, …) but also fits suborbital or parabolic flights
- Independent from ISS
- Temperature range +4°C to +40°C
- Fully automated, no crew interaction needed
- Seamless power transmission for experiments
- Centrifuge up to 16 ScienceShells with Earth, Moon, and Mars gravity (0G to 1G)
- Real-time Housekeeping-Data monitoring and commanding
- Modular Design: Different Experiment Platforms possible

Flight Opportunities and Pricing

For flight opportunities and pricing of the Yuri End-to-End Service for ScienceTaxi Missions please contact Felix.Steiner@yurigravity.com

YURI

SCIENCETAXI
more than just an incubator

MODULAR DESIGN

Incubator

Experiment Platform (EP)

SCIENCESHELLS

ScienceTaxi is completely modular and can host various experiment platforms (EP). The first EP is a centrifuge that can host 38 of yuri's automated bioreactors, the ScienceShells. We have an existing flight-proven portfolio for cell cultures, plants, fish and much more.

Further EPs could be a 3D bioprinter or a larger plant facility.

Our modular design also allows for various
INCUBATOR ADAPTATIONS:

ADD FREEZING CAPABILITIES
Instead of air-cooling we would use water-cooling in this case and could offer temperatures between -20°C and +40°C in a single facility.

ADD CO2 CONTROL
A newly developed experiment platform will provide 5% CO2 control for ScienceTaxi. This EP will provide 340x220x130 mm of internal volume for experiments with CO2 control for at least 180 days without maintenance and the same temperature that ScienceTaxi provides.