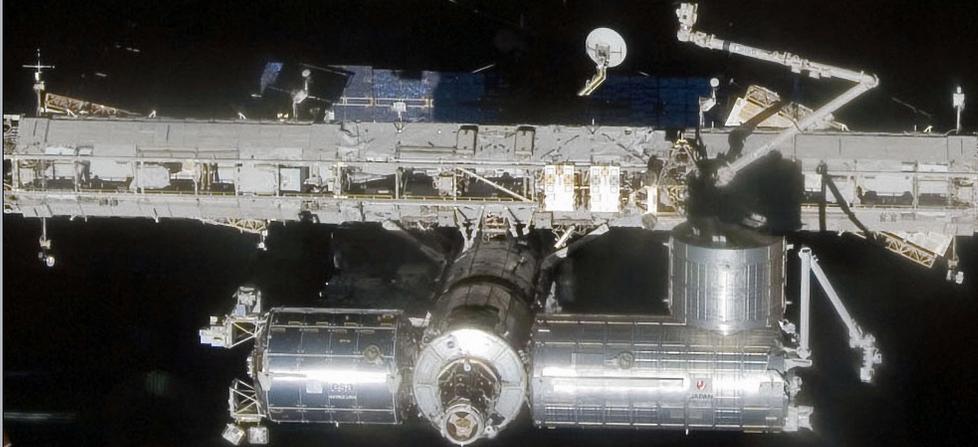


Kibo Research Facilities



This view of the ISS from Shuttle STS-124 clearly shows the Kibo Laboratory on the right with its ELM-PS mounted on top. The Kibo remote manipulator is to the right of the module. The Kibo is berthed to the US Node 2, in the center. The ESA Columbus is to the left. The US Lab is behind Node 2 and the Truss is mounted on top of the US Lab. The Canadian Station Remote Manipulator is above the Kibo ELM-PS.

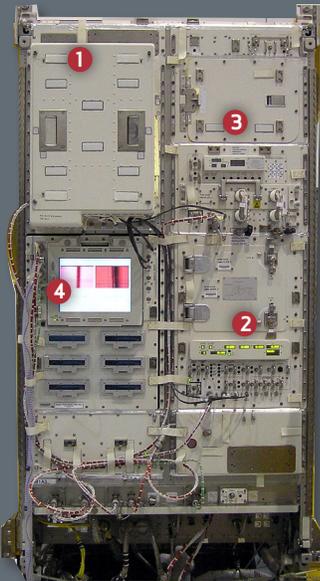


Astronauts of the Expedition 16 and 17, and STS-124 crews a few hours later as the Kibo is populated with payload and systems racks. At the far end is the Kibo airlock.



Astronaut Garrett Reisman inside of the Kibo shortly after it is berthed to Node 2. Visible behind him is the Kibo airlock and two windows. The Kibo is largely empty at this point. His T-shirt reads, "Go Yankees."

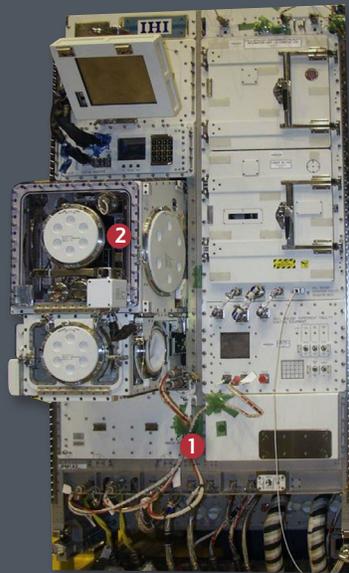
Ryutai (Fluid) Experiment Rack



Ryutai supports the

- 1 Fluid Physics Experiment Facility (FPEF) which will be used to investigate fluid physics phenomena
- 2 Solution Crystallization Observation Facility (SCOF) where several microscopes which can be used to simultaneously measure changes in morphology and growth conditions (temperature and concentration) of crystals
- 3 Protein Crystallization Research Facility (PCRF) that controls peltier elements, acting as a heat pump, to provide temperature profiles suitable for target proteins
- 4 Image Processing Unit (IPU) which receives image data from various sub-rack facilities, encodes the data then transfers the encoded data for transmission

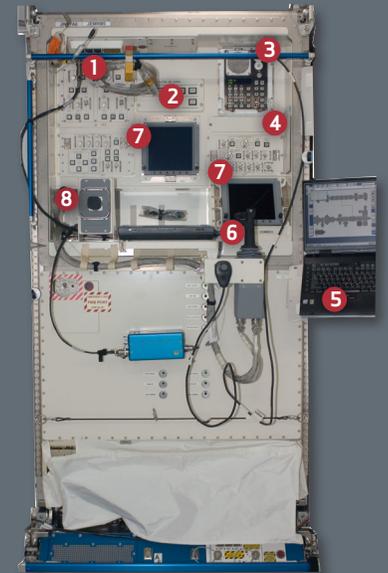
Saibo (Living Cell) Experiment Rack



Saibo supports the

- 1 Clean Bench (CB) which is a glove box with HEPA filter and high performance optical microscope.
- 2 Cell Biology Experiment Facility (CBEF) contains an incubator with an artificial gravity generator.

JEM Remote Manipulator System Control Rack



Serves as the control Station for the Kibo Remote Manipulator

- 1 Release grapple electronics
- 2 Caution and warning panel
- 3 Audio terminal
- 4 Camera controls
- 5 Laptop
- 6 Rotation hand controller
- 7 TV monitors
- 8 Translation hand controller