

Quadruped Spot

Quantity: 2

Facility: RACE (UKAEA)

Contact: nnuf-hr@race.ukaea.uk

Autonomous & tele-operated navigation
14kg Payload
90 min battery life
Optional Payloads
Mission creation

Spot is an agile mobile robot that navigates terrain with unprecedented mobility, allowing you to automate routine inspection tasks and data capture safely. Users can integrate their own payloads or choose from existing options.

Standard Kit Contents

- Spot base platform
- 2 batteries with charger
- JXD tablet controller with cable
- Storage & transport case

Options

- Faro Focus 3D S150 scanner
- Spot CAM
- Spot GXP port extension
- Thermal Camera
- Radiation Sensors



PRE-BUILT SOLUTIONS
Utilize pre-built solutions from an existing network of third-party software and hardware providers.

ATTACH AND INTEGRATE
Attach and integrate unique outside hardware using mounting rails and payload ports.

USE THE SDK
Use the Software Development Kit (SDK) to create custom controls, program autonomous missions, and integrate sensor inputs into data analysis tools.

STATUS BAR
E-STOP
Cuts motor power

MODE BUTTONS
Shortcuts to control Spot's motion

D-PAD
(Directional buttons)
Controls camera view

ACTION H
Controls h1

LEFT JOYSTICK
Moves Spot manually



Skills Required of the User

- Undertake online training & demonstrate capable use of spot
- Insurance cover

Additional Information

- Further training & support can be provided upon request
- See <https://www.bostondynamics.com/spot>

Costs

- Dependant on duration of hire, support required & options selected

UAV

DJI Matrice 600 Pro

Quantity: 1

Facility: RACE (UKAEA)

Contact: nnuf-hr@race.ukaea.uk

Up to 36 mins flight time
Max payload 6kg

Pre-installed arms and antennas reduce time required for setup and the system's modular design makes it easy to mount additional modules. The airframe is equipped with technologies including the A3 Pro flight controller, Lightbridge 2 HD transmission system, Intelligent Batteries and Battery Management system.

Kit Contents

- DJI Matrice M600 Pro UAV platform with flight case
- 12x TB47S intelligent flight batteries
- Battery Case
- iPad mini
- RunCam Eagle 2 FPV camera



Skills Required of the User

- Permission for commercial operations (PFCO) for multirotor wing UAV
- Hull Liability Insurance & aviation liability cover.

Additional Information

- DJI Go will need to be installed on the supplied iPad mini which is downloadable from the app store.
- See <https://www.dji.com/uk/matrice600-pro>

Costs

- Dependant on duration of hire, support required & options selected

Robotic Arm

Kinova Gen 3 Ultra

Quantity: 2

Facility: RACE (UKAEA)

Contact: nnuf-hr@race.ukaea.uk

7DOF Manipulator
4kg Payload
902mm Reach
ROS & Kinova Kortex Software Ready

Ideally suited to both research and industrial use. Easy to set up in under 30 minutes and controlled via the provided gamepad controller or optional haptic device. The slender size make the arm highly suited for glovebox work or mounting to UGV platforms.

Standard Kit Contents

- Kinova arm inc. AC/DC adapter
- Integrated vision camera
- XBOX One Controller
- Storage & transport case

Options

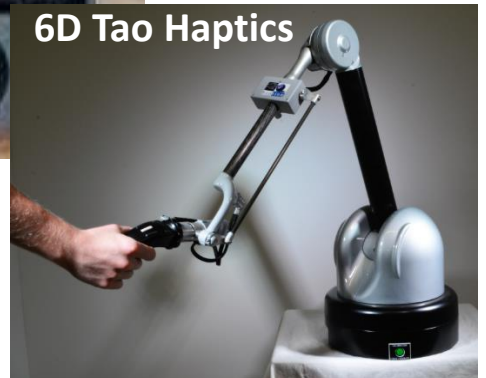
- Qb SoftHand gripper
- Haption Virtuose 6D TAO high force haptic controller



qb SoftHand
RESEARCH



6D Tao Haptics



Skills Required of the User

- Familiarity with the use of similar equipment
- Insurance cover

Additional Information

- Further training & support can be provided upon request
- See <https://www.kinovarobotics.com/en/products/gen3-robot>

Costs

- Dependant on duration of hire, support required & options selected

Robotic Arm

Kuka LBR iiwa 14

Quantity: 2

Facility: RACE (UKAEA)

Contact: nnuf-hr@race.ukaea.uk

7DOF Manipulator
14kg Payload
820mm Reach
ROS or kuka Software compatible

An extremely precise manipulator, designed to work in isolation or collaboratively with humans. Featuring a small footprint and high payload; proven performance cross industry.

Standard Kit Contents

- LBR arm inc. power supply
- SmartPAD controller
- Electric type media flange

Options

- Onrobot RG6 Gripper
- LBR fitted into Certified Safety enclosure



Skills Required of the User

- Familiarity with the use of similar equipment
- Insurance cover

Additional Information

- Further training & support can be provided upon request
- See <https://www.kuka.com/en-gb/products/robotics-systems/industrial-robots/lbr-iiwa>

Costs

- Dependant on duration of hire, support required & options selected