

COTS-BASED APPROACH = COST-EFFECTIVE SOLUTION

Haption's force-feedback devices can be used to control robots manually from a distance, in an intuitive manner. The operators are removed from the dangerous zone and still keep their dexterity and can make full use of their manual skills without the need for programming. Thanks to the force-feedback, they are able to monitor the forces applied by the robots to their environment, thus reducing the risks of damage.



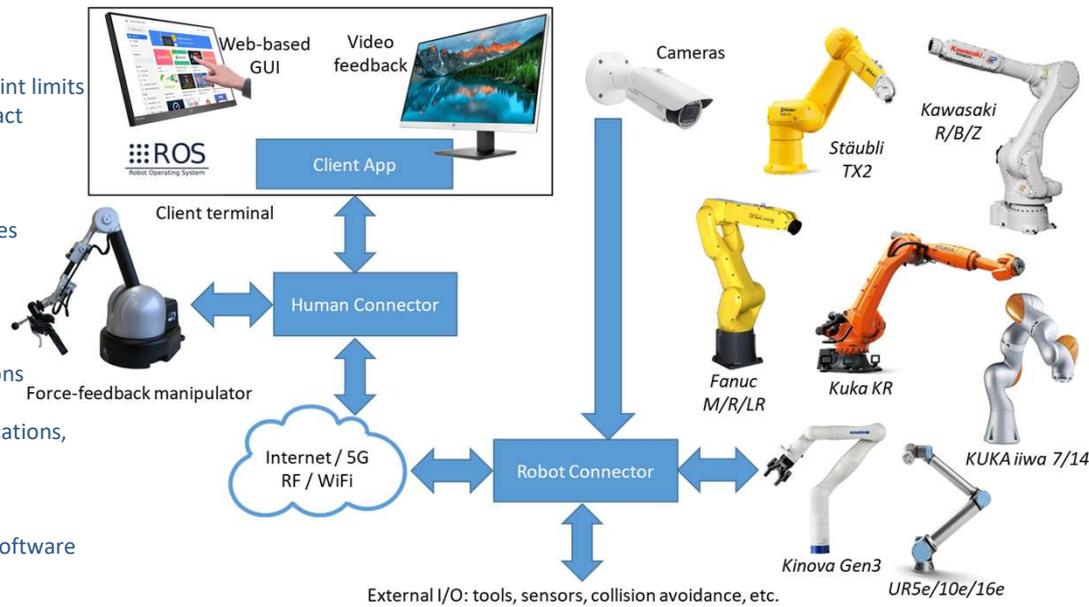
Remote handling # Telemaintenance # Robotics

FUNCTIONALITIES

- ✓ Bilateral control with force-feedback
- ✓ Type of feedback:
 - Dynamic feedback: inertia, drag, joint limits
 - Interactive feedback: weight, contact
- ✓ Clutching in translation and rotation
- ✓ Adjustable base rotation
- ✓ Adjustable force and movement scaling
- ✓ Smooth transition between control modes
- ✓ High level of safety
- ✓ Full data streaming over Ethernet/UDP
- ✓ Virtual fixtures
- ✓ Internal collision prevention
- ✓ Secure, high-performance communications protocol
- ✓ Short and long distance wired communications, dedicated Wi-Fi router
- ✓ Multi-lingual Graphical User Interface

Beside our hardware products, we provide software modules and technical expertise for the implementation of telerobotic applications.

The TREX Vision



Robot vendors	Models	Prerequisites
FANUC	LR Mate, M & R Series (*)	Controller R30iBPlus running software v9.30 P13 with RAM upgrade
Kawasaki Robotics	RS, BX, MS Series (*)	Controllers F60, E01, E02
Kinova	Gen3	None
KUKA	LBR iiwa 7 R800 LBR iiwa 14 R820	KUKA Sunrise 1.16 or newer with FRI and GripperToolbox
	KR (*)	KUKA.RobotSensorInterface
Stäubli	TX2 (*)	Controller CS9 with uniVAL Drive 2
Universal Robots	URe Series	Polyscope 5.9 or newer

(*) Requires an intervention of our personnel on the specific robot model, quoted separately

SUPPORTED ROBOTS

See table

COMPATIBLE WITH

Virtuose 6D TAO

DELIVERABLES

TREX Box + license for your robot model

HAPTION S.A.

8 ZA Route de Laval – 53210 SOULGE SUR OUETTE – France
 Tel. +33(0)2 43 64 51 20 Fax. +33(0)2 43 64 51 21
 Email : contact@haption.com <https://www.haption.com>