

/> Cambrian Intelligence

CI TELEOP KIT

PRODUCT OVERVIEW

CI teleop kit ver 1.0 is a modular teleoperation platform.

It employs state of the art VR technology to enable teleoperation with various industrial robots. The system is designed to integrate readily available proven off-the-shelf components, hence bringing down the cost of the teleoperation system.

The product gives wide range of customisation benefits for the end user to fit in different applications

HOW IT WORKS

The operator is able to see in 3D through the remote 3D camera on the robot with the VR headset. In essence, he sees remote augmented reality with overlaid information from CI's system.

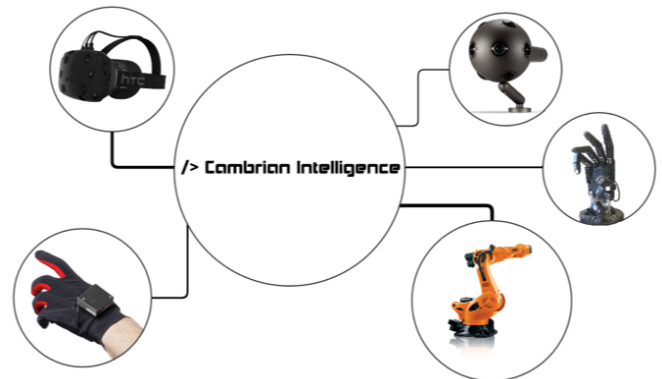
As the operator moves his hand with the remote, the robot end point replicates this movement in coordinate space. In other words, the robot follows the user's hand.

The operator can teach the robot by performing and recording certain actions that can then be automated.



Operators view inside the VR, Immersive 3D view provides intuitive interface to control the robot.

DIAGRAM



CI is the backbone and the software layer connecting all the relevant teleop systems together.

FEATURES

- Remote tool use
- Sensor integration and programmability e.g distance sensors to follow a contour for painting & spraying applications
- PLC industrial applications, we have PLC interface built in so different sensor data can be routed for the operator to see in VR
- Teaching: User can teach tasks for the robot
- Logging and video recording

USER BENEFITS

Remote work in dangerous or hazardous environments:

- Decontamination/cleaning/spraying/painting
- Decommissioning
- Sample collection
- Tool use: cutting/drilling/sensing

Fast teaching the robot:

- Small production batch sizes or custom uses

Assistive robot use

- Take advantage of robot's weight carrying capacity. Eg. lift up to 200kg and move precisely

Contact

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