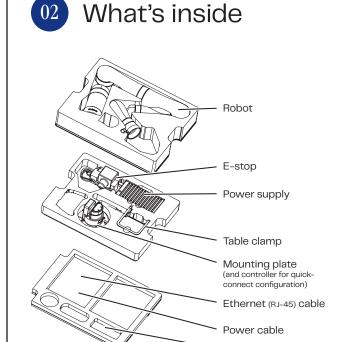


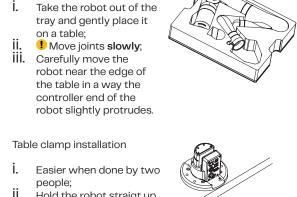
# Kinova® Gen3 ultra-lightweight robot quick start guide

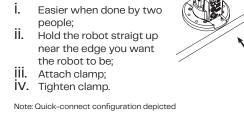
Unbox, set up, and power on your robot in less than 30 minutes!

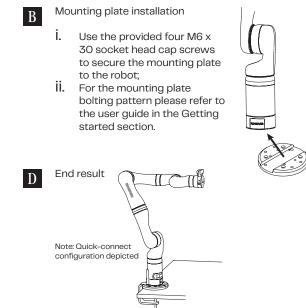
Jnpack robot from case



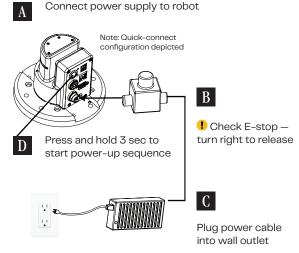








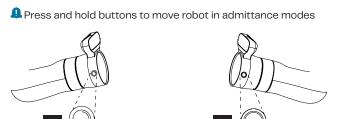
## Power on



🚨 Power-up sequence:

Booting: flashing blue; Initialization: steady blue + amber: iii. Ready: steady green.

Connecting the robot to a computer and configuring



Exploring admittance

Controlling the robot by hand — admittance button

Button 1: raised button, right hand side

Note: Gamepad and gamepad's cable are

control

controls

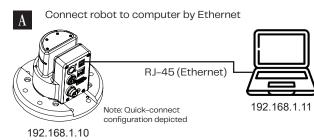
Button 2: indented

Tools package

Cartesian admittance	Apply force by hand to move tool in translation	Button 1
Joint admittance	Apply force by hand to rotate individual joints	Button 2
Null space admittance	Apply force by hand to move joints within null space while retaining tool position (7 DoF only)	Button 1 + Button 2

### Connecting to a computer

wired LAN settings



Configure computer wired LAN adapter IPv4 settings to enable communication with the robot (Windows 10

Open Control panel - Network and sharing center; Select Change adapter settings;

Open wired Ethernet adapter (i.e., Local area connection) and select Properties; IV. Select Internet Protocol version 4 (TCP/IPv4) and

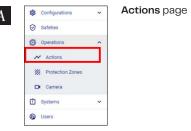
click **Properties**; V. Enter 192.168.1.11 for IP address and 255.255.255.0 for subnet mask;

### Accessing the robot via the Web App

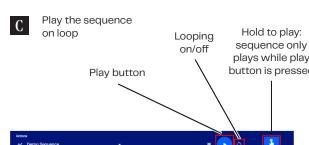


App.

trajectory (sequence)



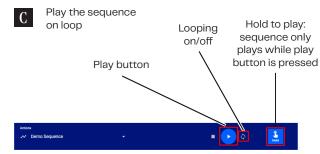
Select preset sequence **Demo sequence** 



## Op Playing a preset







## Controlling robot with gamepad

Do not power on the product if any external damage to the vision module is apparent. Do not attempt to open the vision module

The robot is not certified for use in applications in sterile environments (e.g. food production, pharmaceuticals, medical, surgical

High-level force control is supported as an experimental feature. Users should exercise caution.

Make sure that the area around the robot is clear before experimenting with torque control

The robot should not be used without the provided emergency stop connected

wait until the humidity decreases to an allowable value

There are no mechanical brakes on the robot. If the power supply is cut or an unrecoverable error occurs, be aware that the robot will fall. However, mechanisms are in place

Attempt to stop the robot or prevent its movement by holding it (except in admittance mode);

Install the robot base within 20 cm of your body (base contains a Wi-Fi transmitter);
Power up, reboot, or update the firmware of the robot only when the robot is in a stable position

The robot does not encounter any obstacles (person or objects). Although inherently safe in its default configuration, disabling the robot safeties requires that the user be responsible for ensuring a secure working space;

The grasping of objects by gripper fingers is stable, to prevent the risk or dropped or thrown objects (if using a gripper); The wrist is supported before turning the power off (otherwise it may fall and cause damage);

The working area is safe when containers of hot (or extremely cold) liquids are to be manipulated with the robot; The robot working area is safe if sharp objects are to be handled by the robot (e.g., fencing, light curtains, laser scanner, safety

Risk assessment, before integration of the robot into a given application;

The robot has its base securely fixed to the work surface when in operation Before using the robot, you have confirmed that there are no warnings;

The robot is protected adequately before being used near any messy process (e.g.,

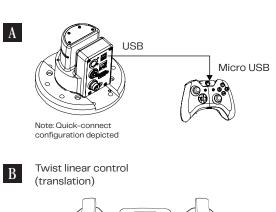
When using a tool and payload with the robot, ensure that the robot is configured with the parameters of the tool and payload using the Kinova Web App or the Kinova.Api. ControlConfig API. For more details, see the API documentation on GitHub and the Interface, expansion, and vision section of the robot user guide. The robot may behave in ar unexpected manner if the tool and payload parameters are not properly configured. When mounting the robot in a wall or ceiling mount, ensure that special considerations and configurations set out in the user guide are followed, including analysis of the

Low-level torque control is for advanced users only and should only be used by users who know what they are doing. It is very important to carefully monitor the torque

o avoid eyesight injury from wide angle infrared laser light, do not view the front-facing surface of the vision module through magnifying optical elements.

Use the robot near a flame or source of heat; Use the robot to submerge objects in water;

The end effector never collides with a hard surface:



Please read the safety information before unboxing your robot

that of others, it is strongly

For your personal safety, and that

For your personal safety, and that

be carried out:

within the actuators that slow the descent without external po

Directives, warnings and safety considerations for the Kinova Gen3 robot

Failure to follow directives, warnings and safety considerations may result in serious injury or death to the user, damage to the

It is recommended that surge protection be used to protect the robot against external surges on the main AC line which might be caused by lightning or othe

Any end effector must be mounted as specified in the installation section

The base must be mounted as specified in the installation section, with particular attention to the bolt pattern, strength requirements and any table or tripod-

The table clamp should not be used for repeated movement as the mounting may eventually detach fom its location, resulting in the robot falling. Mount the robot

securely with screws as described in the Getting started section of the user guide

The controller mating interface needs to be kept free of dust and moisture to

protect the electrical contacts. Wipe down with a soft, dry cloth to keep the surface of the interface clean.

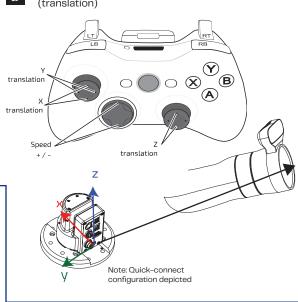
robot or a reduction in its useful life.

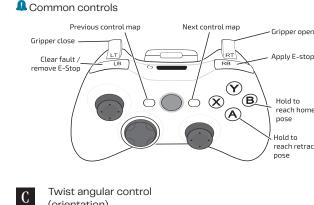
Do not connect the USB ports on the base to one another.

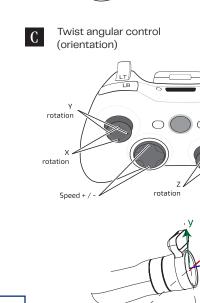
(including bolt pattern, power requirements, etc.).

GENERAL

abnormal conditions.



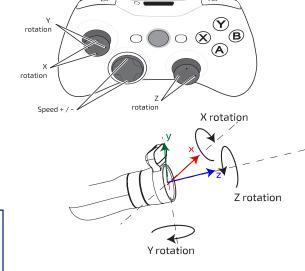




Kinova Kortex™ ROS GitHub repository

github.com/kinovarobotics/ros\_kortex - Includes ROS

package, ROS examples, and ROS documentation.



## Going further

Kinova Kortex™ GitHub repository

#### github.com/kinovarobotics/kortex - Includes development setup instructions, API library package, API code examples, and

Technical resources kinovarobotics.com/resources - Includes user guides, specifications sheets, FAQ, how-tos, softwares, CAD, drawings,

■ Look for our tutorial videos on YouTube! Q Kinova Kortex

#### Technical support

API documentation.

support@kinova.ca

