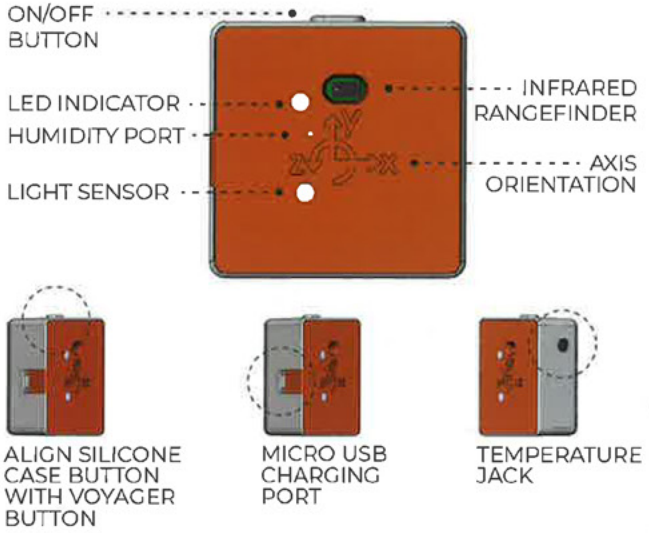
Voyager

PRODUCT MANUAL

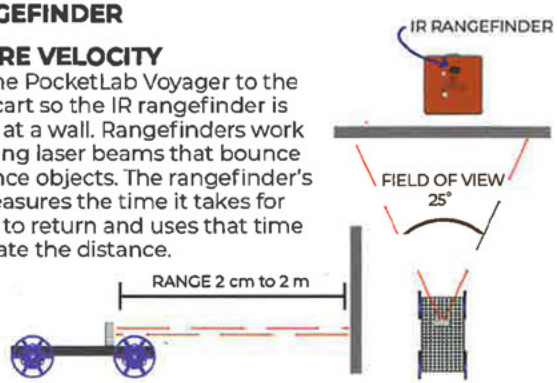


BUTTON FUNCTIONS	
Short press	**Initiate Bluetooth connection**
Long press	**Power off**
LED CODES	
Fast red and green flash	Ready to connect via Bluetooth
Slow red and green flash	Disconnected from app
3 green flashes	Bluetooth connection initiated
Green flash every 5 seconds	Connected to app
Solid red	Disconnecting from app
3 red flashes every 10 seconds	Battery charging
Orange flashes	Downloading stored data to app

IR RANGEFINDER

MEASURE VELOCITY

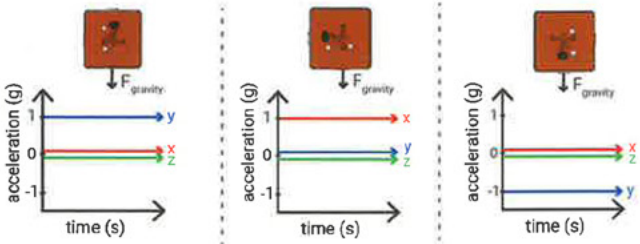
Attach the PocketLab Voyager to the top of a cart so the IR rangefinder is pointing at a wall. Rangefinders work by emitting laser beams that bounce off distance objects. The rangefinder's clock measures the time it takes for the laser to return and uses that time to calculate the distance.



ACCELEROMETER

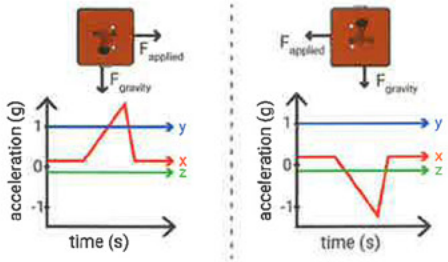
MEASURE GRAVITY

With PocketLab Voyager at rest, change its orientation with respect to Earth's gravity. How does the graph change?



MEASURE MOVEMENT

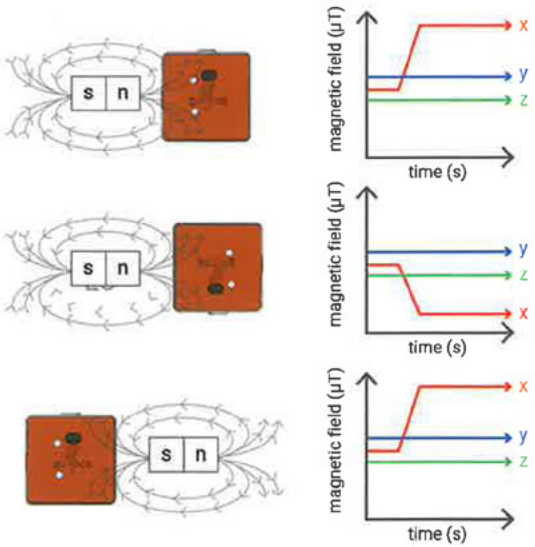
Shake PocketLab Voyager back and forth along different axes. How does the graph change?



MAGNETOMETER

MEASURE MAGNETIC FIELDS

If the direction of an axis of the magnetometer is aligned with the direction of the magnetic field, the strength of the magnetic field will increase along that axis. Can you find the north and south side of a magnet on your refrigerator?



SENSOR CAPABILITIES

ACCELERATION
ANGULAR VELOCITY
MAGNETIC FIELD
POSITION - RANGEFINDER
VELOCITY - RANGEFINDER
TEMPERATURE - PROBE
TEMPERATURE - AMBIENT
BAROMETRIC PRESSURE
ALTITUDE
LIGHT INTENSITY
HUMIDITY
DEW POINT
HEAT INDEX

CHARGING THE BATTERY

To charge the battery, connect a micro USB cable to the connector on the PocketLab. Plug the USB cable into a USB charger or computer port. The LED will blink red every 10 seconds while charging and stop blinking when fully charged.

CONNECTION
Bluetooth 4.0

SIZE
3.9 x 3.9 x 1.6 cm
(1.5 x 1.5 x 0.6 in)
17 grams (0.6 oz)

BATTERY
Rechargeable Li-Poly
Connect via micro USB
240 mAh capacity

SENSOR SETTLE TIME

Give your PocketLab Voyager up to ten minutes to settle on new conditions.

PRODUCT CARE

PocketLab Voyager is NOT waterproof. Make sure it is protected from rain.

Need Support?

Sign in to PocketLab Notebook for tutorials, knowledge base and chat support.
thepocketlab.com/notebook

Email:
thepocketlab.com/contact

Find detailed instructions and experiments.
app.thepocketlab.com/voyager

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SCIENCE. EVERYWHERE.

1
Turn On

Turn on your PocketLab sensor by pressing the button on the top. LED light will start blinking.

To turn off PocketLab, hold power button for three seconds until you see a solid light.

See your product manual for LED codes.

2
Connect

Stream live data from your sensor. Go to thepocketlab.com/notebook and click "Connect a PocketLab"

Computers with Chrome, Microsoft Edge
Go to thepocketlab.com/notebook

Google Play App Store
Download "PocketLab Notebook"

Apple App Store
Download "PocketLab" iOS app

3
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Get more features in PocketLab Notebook by signing up for a free account.

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