

ExynPak

Reference Guide

COMPONENTS

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NOTE

This reference guide should only be used after you complete Exyn training. This document along with the Post Capture Operation Manual are loaded on the tablet.

You can access Exyn's online training through the Jira support portal.

COMPONENTS



TIPS FOR LOG FILES



All logs can be replayed, noted and downloaded using the Flight Log Player



Add notes to your logs, such as the name or location of the area mapped



Stop log playback
NOTE: Log playback needs to be stopped prior to recording new data



Download log to tablet

BASIC OPERATION

OPERATION WITH TABLET

1. ATTACH DESIRED MOUNT

(Vehicle-mount, Handheld, etc.)

- A. Ensure suction cups and surface are clean of any debris
- B. Apply silicon gel to cups to improve suction

2. TURN ON EXYNPAK

- A. Press button on the battery (short then long press)

3. TURN ON TABLET

- A. Long press power button on the right side of the screen
- B. Enter PW: exyn
- C. Check Wi-Fi connection to ExynPak
SSID: exyn-RobotXXX
PW: exyniscool

4. LAUNCH EXVIEW

- A. Use the desktop icon

5. START/STOP DATA COLLECTION


- A. Make sure the system is completely stationary and free from vibrations (e.g. vehicle off)
- B. Press the Exyn logo below on the tablet toolbar to start ExynAI



Tablet is connected,
ExynAI is not running



ExynAI is on, you are
now collecting data

- C. **IMPORTANT:** Wait for lidar to spin up and point cloud to form on the tablet screen (>30s)
- D. You can now move around the area you wish to map
- E. To stop data collection, press Exyn logo again and wait for it to turn red
- F. Press  on the top right to clear the map if needed

Note: For colorization (beta), lens caps need to be removed from the lenses. This feature is not yet rolled out to all ExynPak customers.

OPERATION WITH ON-DEVICE CONTROL

1. TURN ON EXYNPAK

- A. Press button on the battery (short then long press)
- B. Wait until the screen displays "Hi from ExynAI"

2. START/STOP DATA COLLECTION

- A. Select the start option by using the rotary knob / button.
- B. Keep ExynPak completely still on a stable surface while the screen reads "No State Yet, Set Still"
- C. **IMPORTANT:** Once the screen displays "Mapping & Logging" you can pick up the system and collect desired data
- D. Once complete, press in the knob to select stop

3. TURN OFF EXYNPAK

- A. Using the rotary knob, select the power off option
- B. Turn off the battery with a short then long press

OPERATION WITH WEB BROWSER (PAKUI)

1. TURN ON EXYNPAK

- A. Press button on the battery (short then long press)
- B. Wait until the screen displays "Hi from ExynAI"

2. CONNECT TO EXYNPAK WI-FI

- A. On your phone, tablet, or computer, connect to ExynPak Wi-Fi:
SSID: exyn-RobotXXX
PW: exyniscool

3. LAUNCH PAKUI

- A. Open your web browser of choice. Enter 'https://192.168.2.1' into the URL bar to load the PakUI
- B. On Home Screen, tap "Start Capture" and follow prompts
- C. On Home Screen, tap "File Manager" to view/edit your captures
- D. At any time, tap Exyn logo to return to the PakUI Home Screen

ACCESSORIES

STATIC VEHICLE MOUNT SETUP



SETUP

Remove shoulder strap. Slide ExynPak into mount from the front, then use four M3 thumb screws to secure.



PREPARE VEHICLE

Before mounting onto a vehicle, use a damp rag to clear the mounting area of any dust or dirt.



MOUNT

Apply pressure on each suction cup and repeatedly press button until no orange is visible.



CHECK

Before driving verify that each suction cup is fully engaged (no orange showing) and the ExynPak is securely attached to the mount



REMOVE

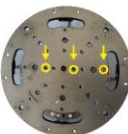
To remove the mount from the vehicle, simply pull up on or both tabs on each suction cup to disengage them.

VIBRATION ISOLATION MOUNT



SEPARATE

Separate the mounting cradle from the suction cup tripod by removing the two $\frac{3}{8}$ "-16.



ATTACH CUPS

Use three $\frac{1}{4}$ "-20 socket head screws and washers to attach the suction cup tripod to the vibration isolation mount as shown using the holes indicated in the image.



ATTACH CRADLE

Use the set of longer $\frac{3}{8}$ "-16 screws from the assembly hardware bag to attach the mounting cradle to the top of the vibration isolation mount as shown.



ATTACH EXYNPAK

Use four M3 thumb screws to secure the ExynPak in the mounting cradle, then use suction cups to secure the mount to the vehicle.



CHECK

Verify the ExynPak is centered as shown in the image.