

NORWA ROBOTICS · SUPPORT

Cyber 1 — operational guide

Safe start-up, control and essential maintenance

NORWA support edition · based on manufacturer manual v1.4



NOTE

Support edition. If there is any discrepancy, the full manufacturer's English manual prevails.

In this guide

- Preparing the work area
- First start-up
- Control and emergency stop
- App and Wi-Fi
- Charging, transport and storage
- Troubleshooting and support

1. Before starting the robot

Cyber 1 is a dynamic platform with powered joints. Prepare both the work area and the operator before every start.

- Operate only under the supervision of a trained adult.
- Provide at least 3 m of clear, level space for the first start and SDK tests.
- Do not operate on an elevated surface without guards, near stairs or edges, or above people standing on a slope.
- Keep children, pets and loose objects outside the movement area. Do not sit on or place objects on the robot.
- Keep hands away from joint travel. Metal motor surfaces may become hot after extended use.
- Operating temperature: 0–40°C. Avoid moisture, liquids, strong electromagnetic interference and Wi-Fi/2.4 GHz interference.

Pre-start inspection

- Inspect joints, harnesses and foot pads for debris, looseness or damage.
- Check the battery level and camera lens. Clean the lens only with a dry, soft cloth.
- Place the legs in a natural, unloaded position. Never start the robot upside down.
- Confirm that the power button, charging port and movement path are unobstructed.

EMERGENCY STOP

If the robot makes violent, unpredictable movements or shakes strongly, use the emergency stop immediately. The robot will enter a protective posture.

2. First start-up

1. Charge the battery with the official adapter. Never use a damaged or third-party adapter or cable.
2. Place the robot in the centre of the prepared area and move people and objects away from the intended path.
3. Power on the controller when using manual control. During SDK tests follow the DEV guide — some procedures require the controller to remain off.
4. Press and hold the robot power button for more than 3 seconds. Wait for the start-up completion prompt.
5. Run the homing reset, then issue the stand command. Begin at the lowest speed with simple movements.
6. Keep the robot within line of sight. Reduce speed and avoid abrupt turns on slippery, uneven or unknown ground.

3. Control and emergency stop

The robot can be controlled with the controller, a compatible app or the SDK. Available functions depend on software version and configuration.

- The L button on the controller activates the soft emergency stop.
- After a stop, do not resume until the cause of abnormal behaviour has been identified.
- Do not send motion commands while anyone is touching the robot, replacing the battery or working on mounted equipment.
- The 3 m/s maximum applies to suitable flat ground. It is not a safe speed in every situation.
- Payload must not exceed 8 kg and should be mounted as centrally as possible.

4. App, Wi-Fi and updates



7. Install the official Cyber 1 app from the App Store or the APK supplied by NORWA Robotics.
8. Connect the phone and robot to the required Wi-Fi network as described in the full manual.
9. Select the device in the app and verify battery, network and platform status.
10. Before commanding movement, check the camera view and the physical area, then select the appropriate speed and obstacle-avoidance mode.
11. Run OTA updates with stable power and connectivity. Do not switch off the robot during an update.

APP

Depending on version, the app can provide a virtual joystick, camera view, recording, audio, emergency stop, stand, lie-down, reset and selected actions.

5. Battery, charging and storage

- Use only the official adapter and do not charge continuously for more than 24 hours.
- If the battery smells unusual, smokes, deforms or leaks, disconnect power and stop using it. If electrolyte enters the eyes, rinse with clean water and seek medical attention.
- The adapter may become hot. Avoid prolonged contact while charging.
- Switch off and unplug before cleaning. Do not use a damp cloth, alcohol or corrosive agents.
- For long-term storage, charge the battery, switch off the robot and keep it in a cool, dry place. Recharge at least once every 3 months.
- For transport, switch off the platform and use the original case or packaging, protecting joints from load.

6. Quick troubleshooting

Symptom	Recommended action
Robot does not stand	Check battery level, leg position and error messages, then run reset. If a joint is loose or unusually noisy, power off.
Unstable movement	Stop, clear obstacles, reduce speed and inspect the ground, foot pads and payload mounting.
App does not connect	Verify that phone and robot are on the correct network, disable interfering connections and repeat the Wi-Fi procedure.
SDK does not connect	Check Ethernet, addresses 192.168.96.2 / 192.168.96.3, interface configuration and whether the robot server has completed start-up.
Overheating or unusual smell	Stop immediately, switch off power and contact support. Do not open the battery or motors.

7. DEV version and Research Kit

The expansion interface provides Gigabit Ethernet; the XT60 connector exposes battery-module voltage from 22.4 to 33.6 V. Never reverse polarity and connect equipment only while powered off. Research Kit adds Jetson Orin NX 16 GB, Livox MID360 and Intel RealSense D435i. ROS 2, SLAM, navigation and proprietary algorithm integration remain the buyer team's project.

NORWA Robotics support

Include the robot variant, serial number, app or SDK version, a precise symptom description and the actions performed immediately before the issue.

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IMPORTANT

This guide does not replace the full user manual, DEV documentation or manufacturer safety instructions. Conformity documents and support scope are confirmed for the specific B2B configuration.