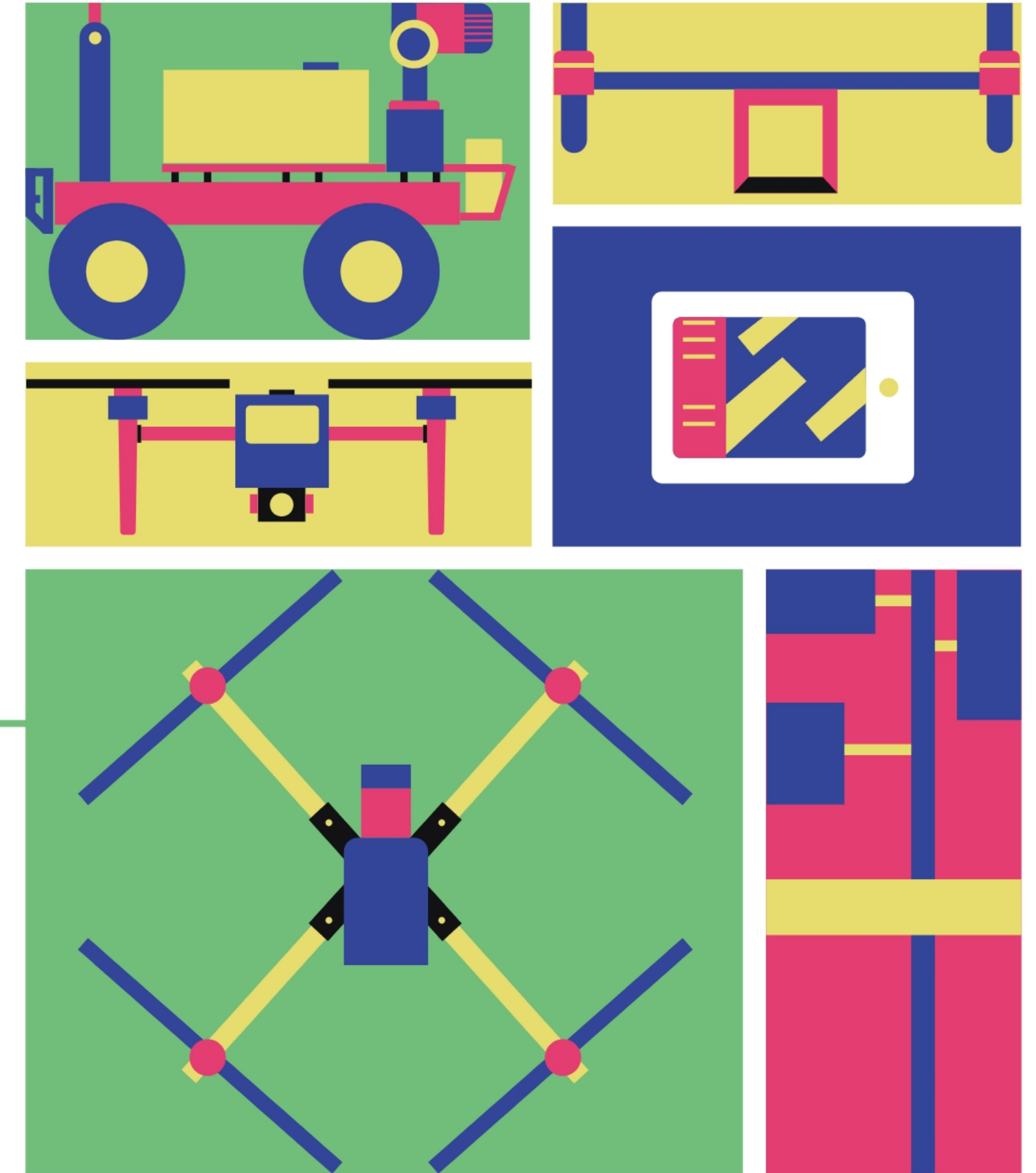


Device Networking in a Networkless Environment



Background

- Some remote operation zones may have poor or even no carrier network signal coverage, making it impossible to perform network-dependent operations or connect to an RTK fixed station.
- In certain operation zones, there are a large number of obstacles, which are likely to block the signals, leading to low drone flight efficiency.
- To address these operational scenarios, we provide **device networking** functionality to enable operations anytime and anywhere, regardless of environmental constraints.





01 | Networking via Remote Controller

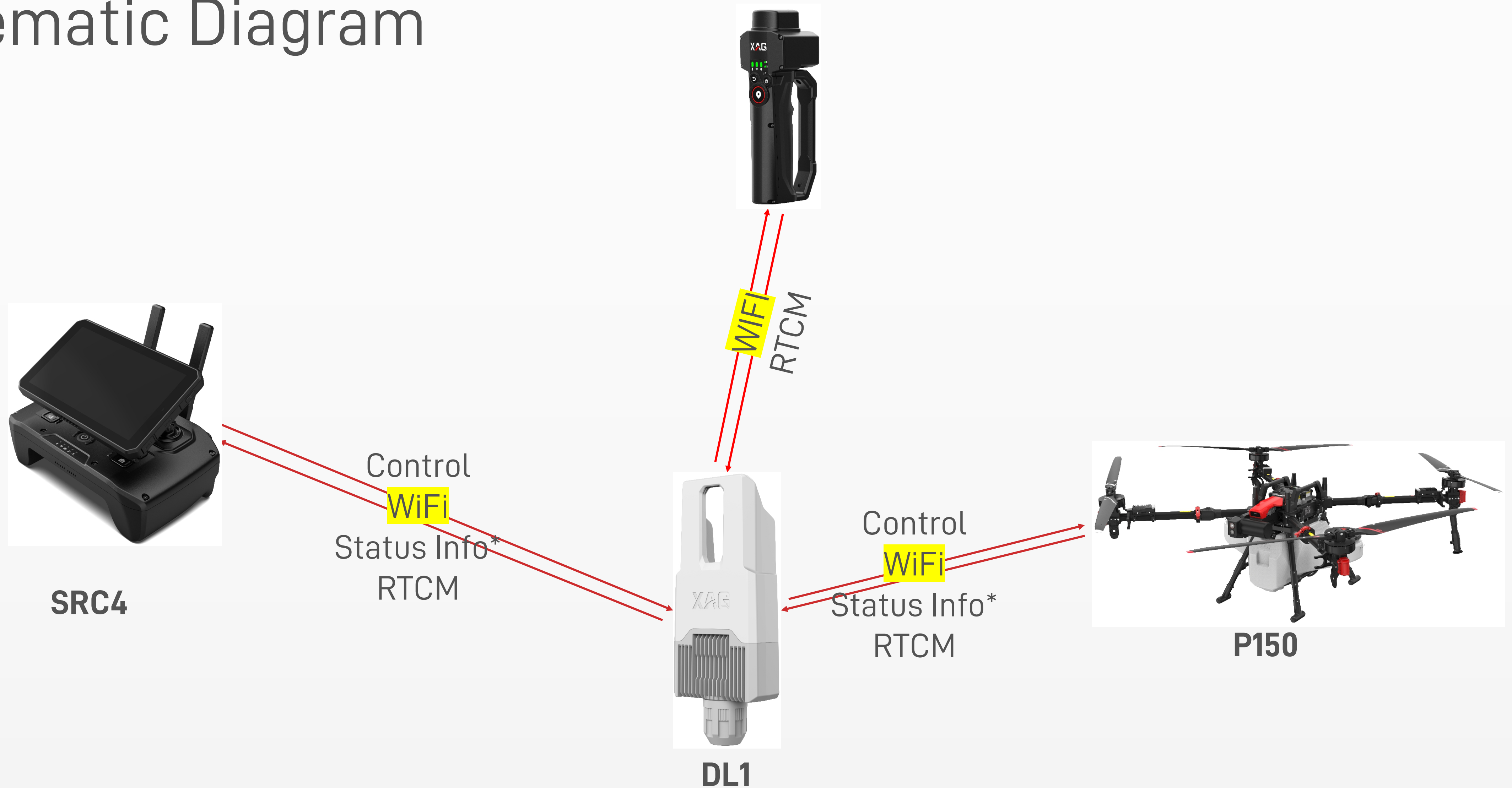
02 | Networking via Mobile App

03 | Set XRTK6 Pro as Portable Base

01 | Networking via XAG Smart Remote Controller 4



Schematic Diagram



Device Preparation

- Before device networking, prepare XAG P150 Agricultural Drone, Smart Remote Controller 4, XRTK6 Pro Multi-functional Rover, and DL1 datalink in advance.
- Add and bind above-mentioned devices in advance, and ensure all devices are powered on and remain operational.



P150



XRTK6 Pro



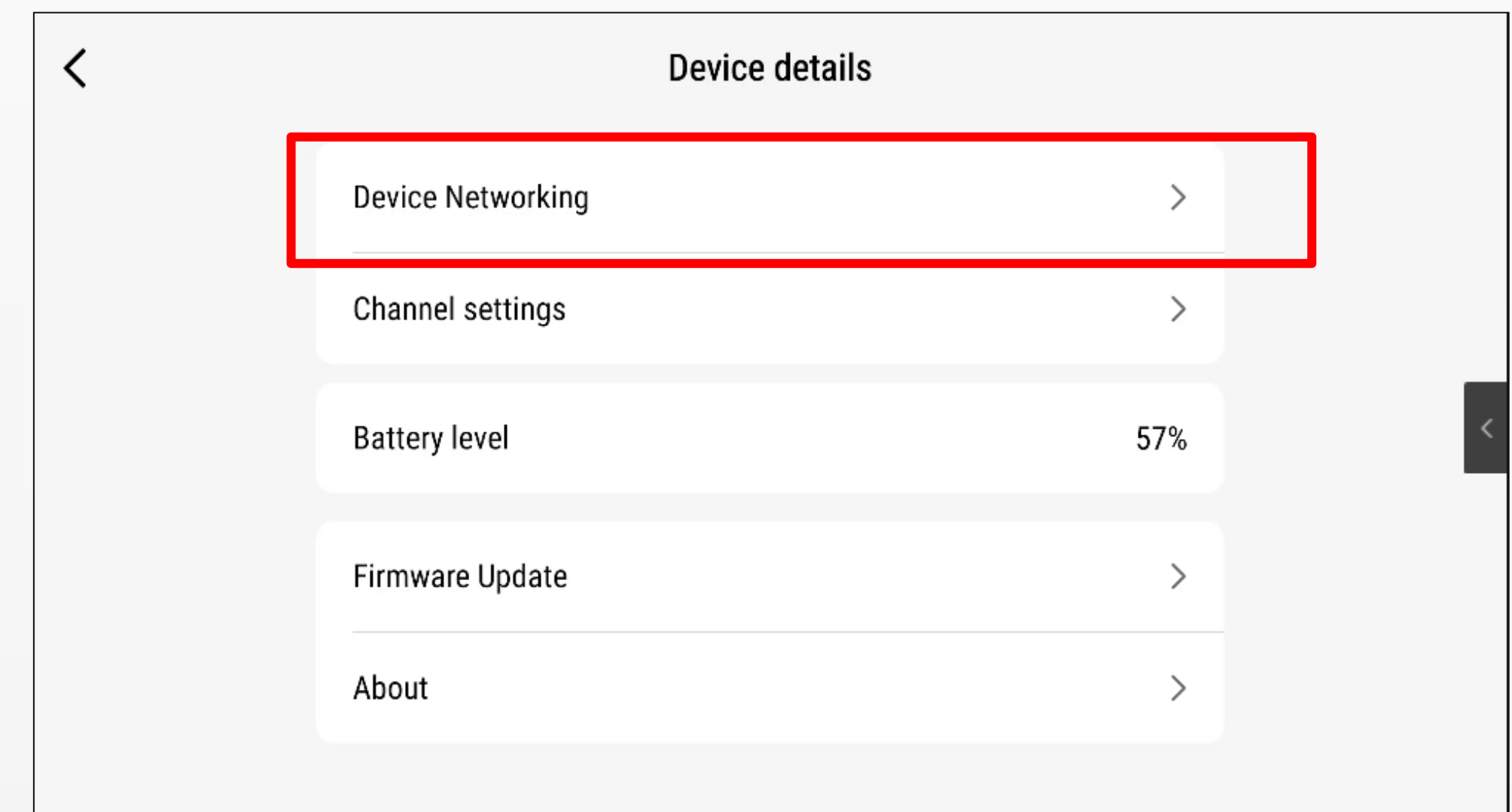
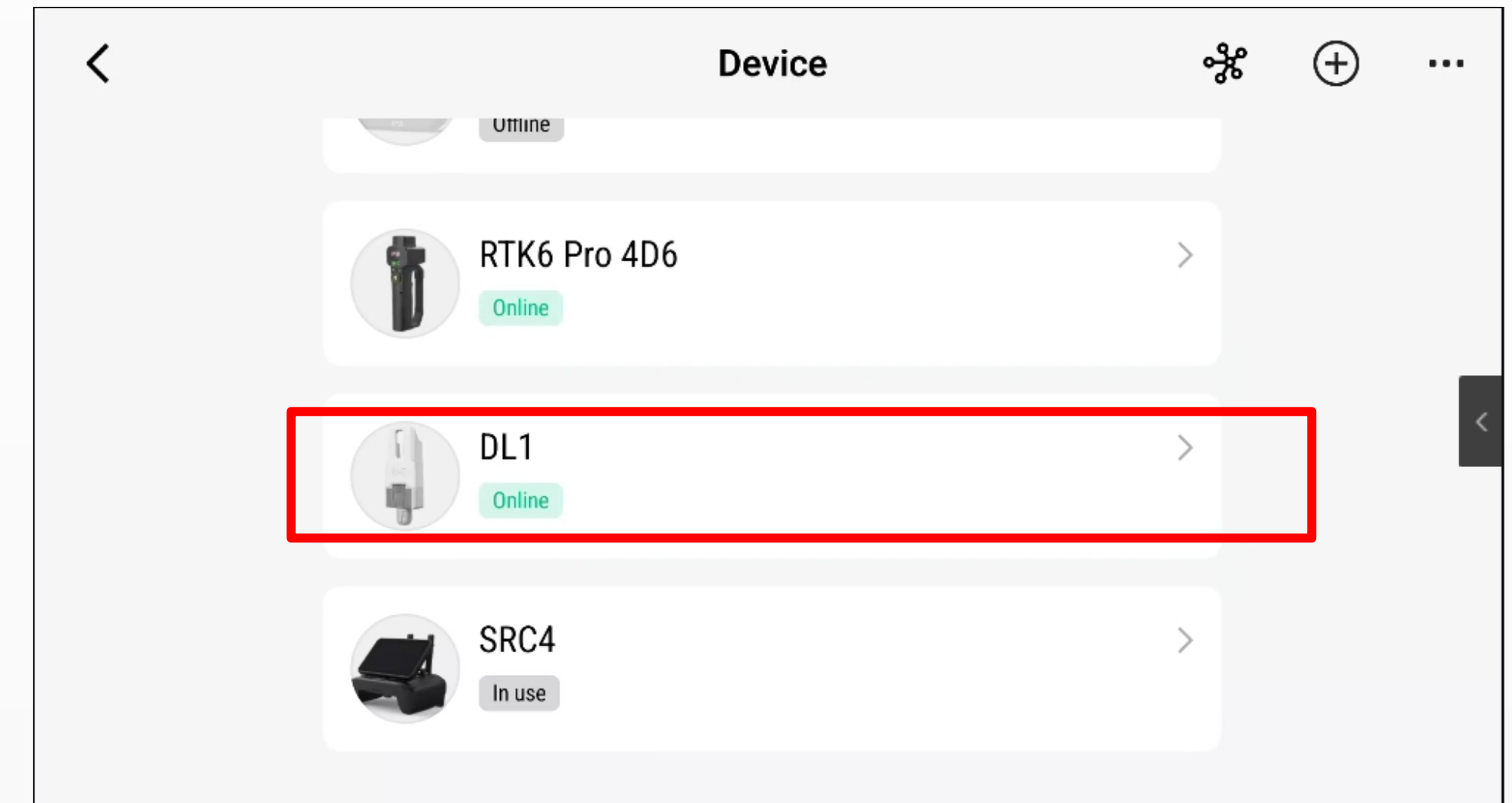
SRC4



DL1

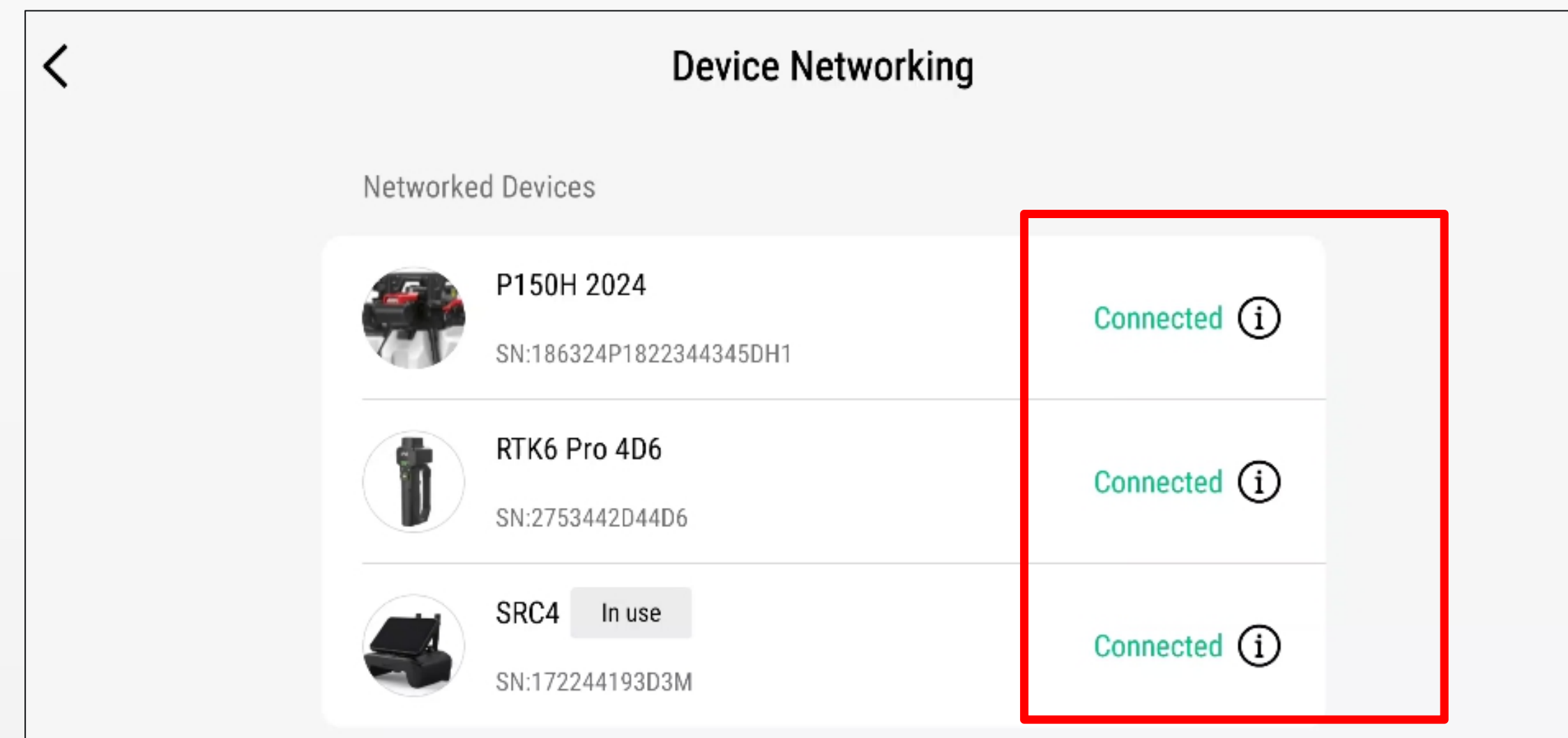
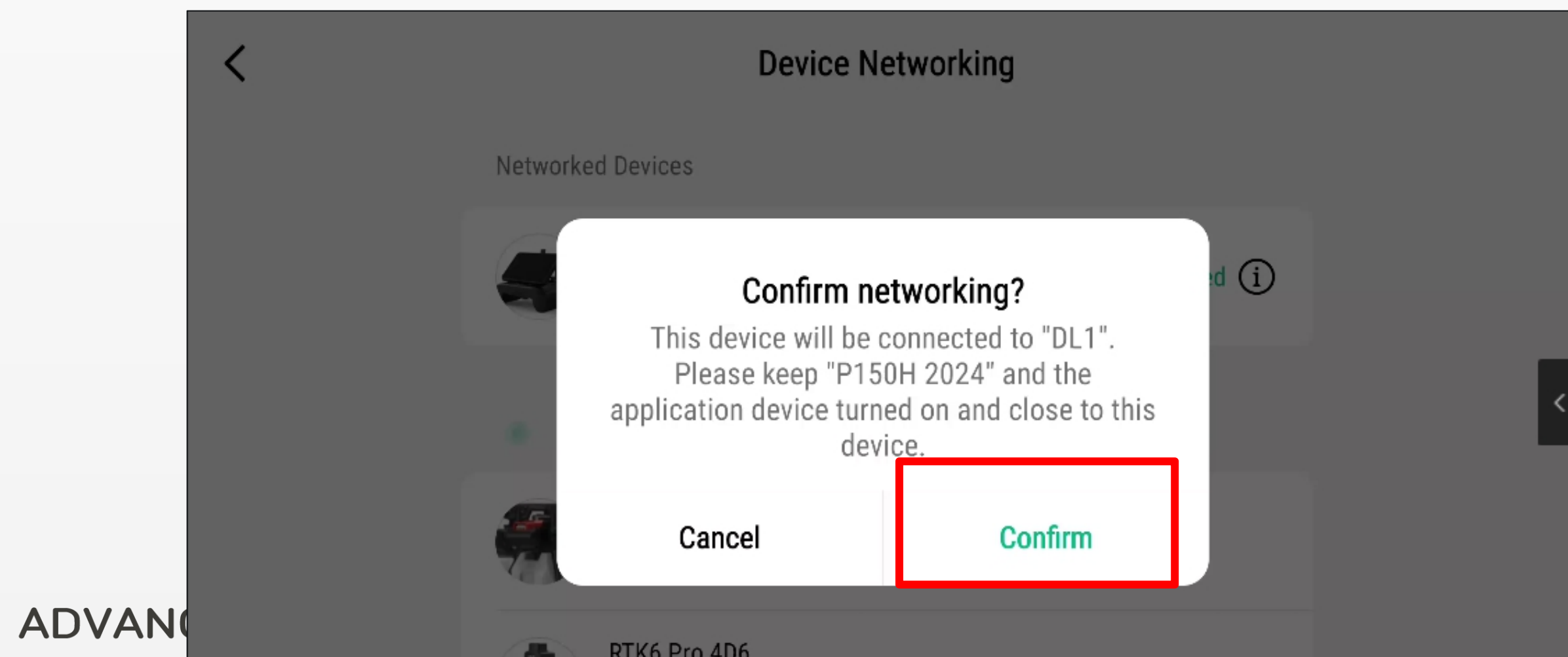
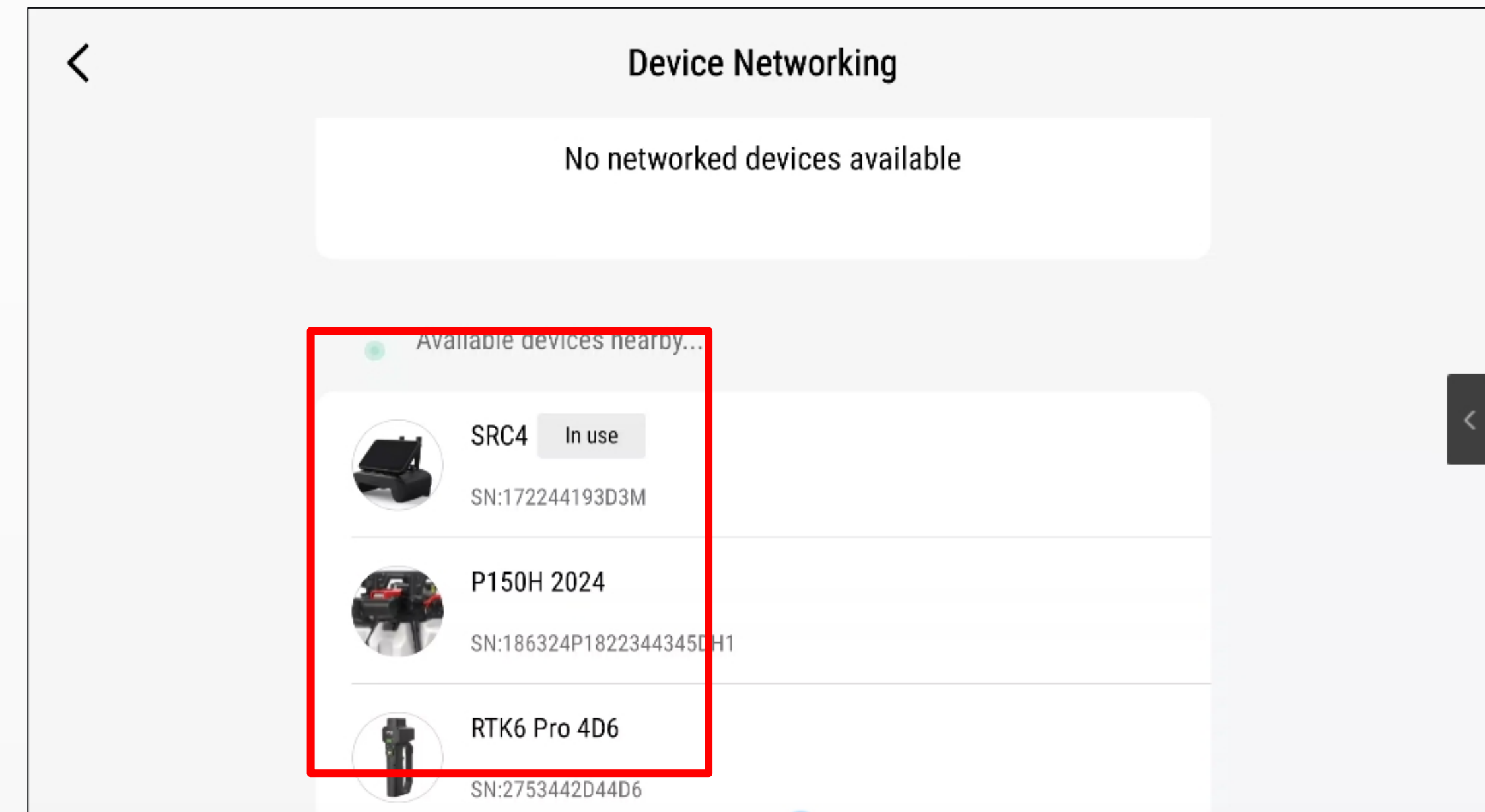
Operating Procedures

- Open the XAG One App in XAG Smart Remote Controller 4 and tap "Me".
- Tap "Device" and select the DL1 datalink to be configured as the networking hub.
- After entering the "Device Details" of DL1 datalink, tap "Device Networking".



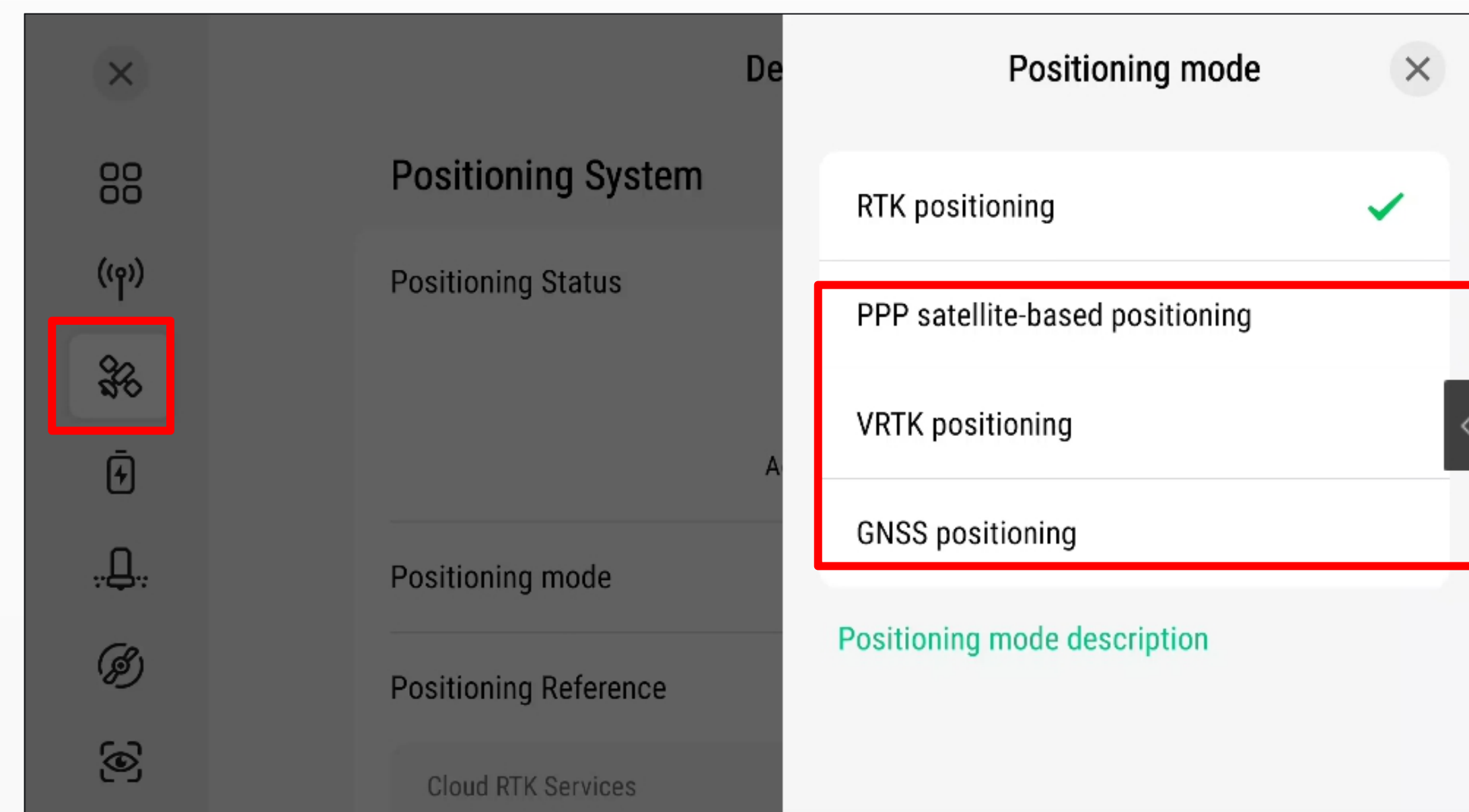
Operating Procedures

- Position the device and the DL1 datalink close to the remote controller. Then the SRC4, drone and XRTK6 Pro available for networking will appear on the device networking screen.
- Select the target device to finalize the device networking.



If there is no XRTK6 Pro or DL1 datalink

- In a networkless environment **without XRTK6 Pro or DL1 datalink**, directly bind (via networking) and connect SRC4 to the drone. Then in the Device Details interface of the drone, select the positioning mode as **VRTK positioning, GPS positioning or PPP positioning** to perform operations in a networkless environment.



SRC4

Control
WIFI
Status Info*
RTCM



P150

02 | Networking via Mobile App



Schematic Diagram



Device Preparation

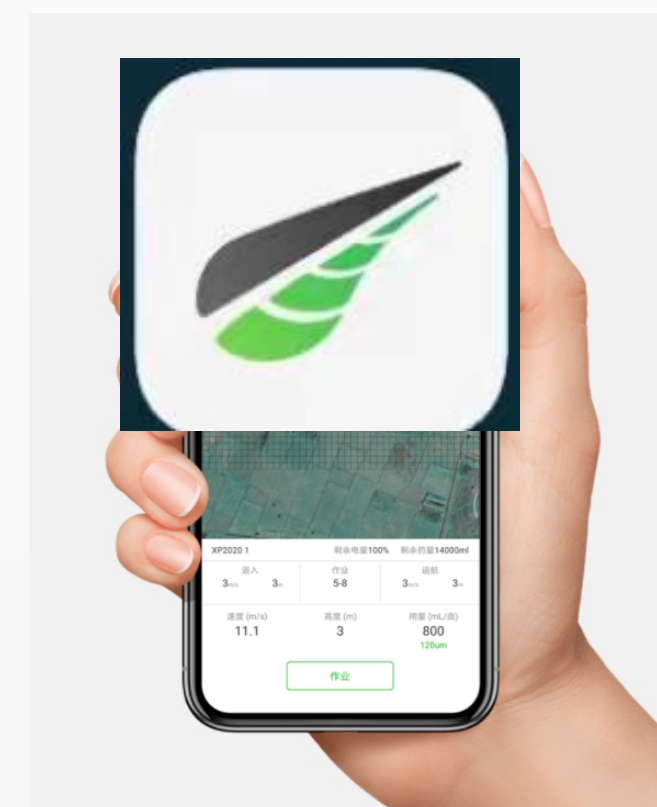
- Before device networking, prepare the mobile App, XAG P150 Agricultural Drone, XRTK6 Pro Multi-functional Rover, and ACS4 Intelligent Control Stick in advance.
- Add and bind above-mentioned devices in advance, and ensure all devices are powered on and remain operational.



P150



XRTK6 Pro



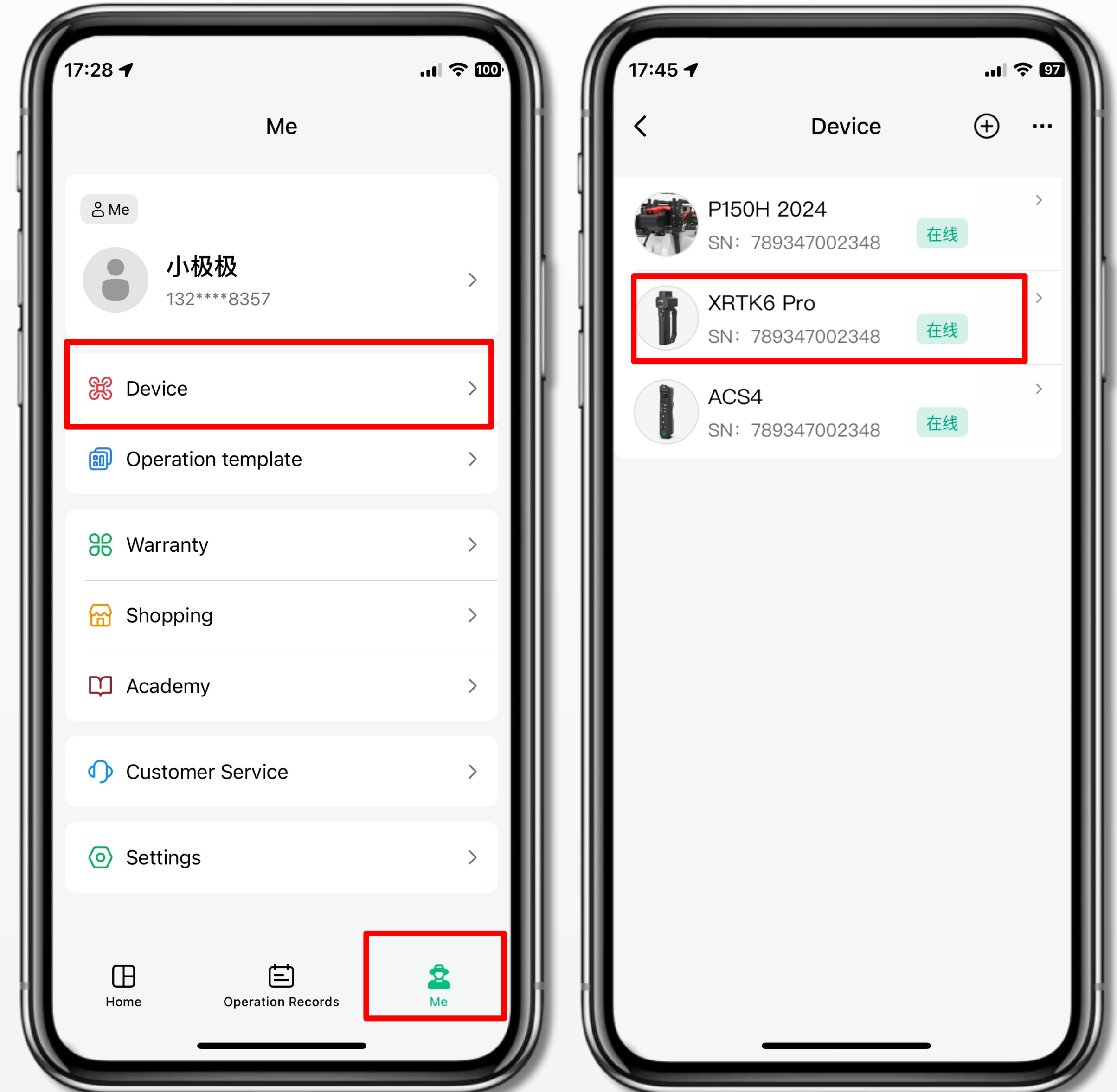
XAG one APP



ACS4 (optional)

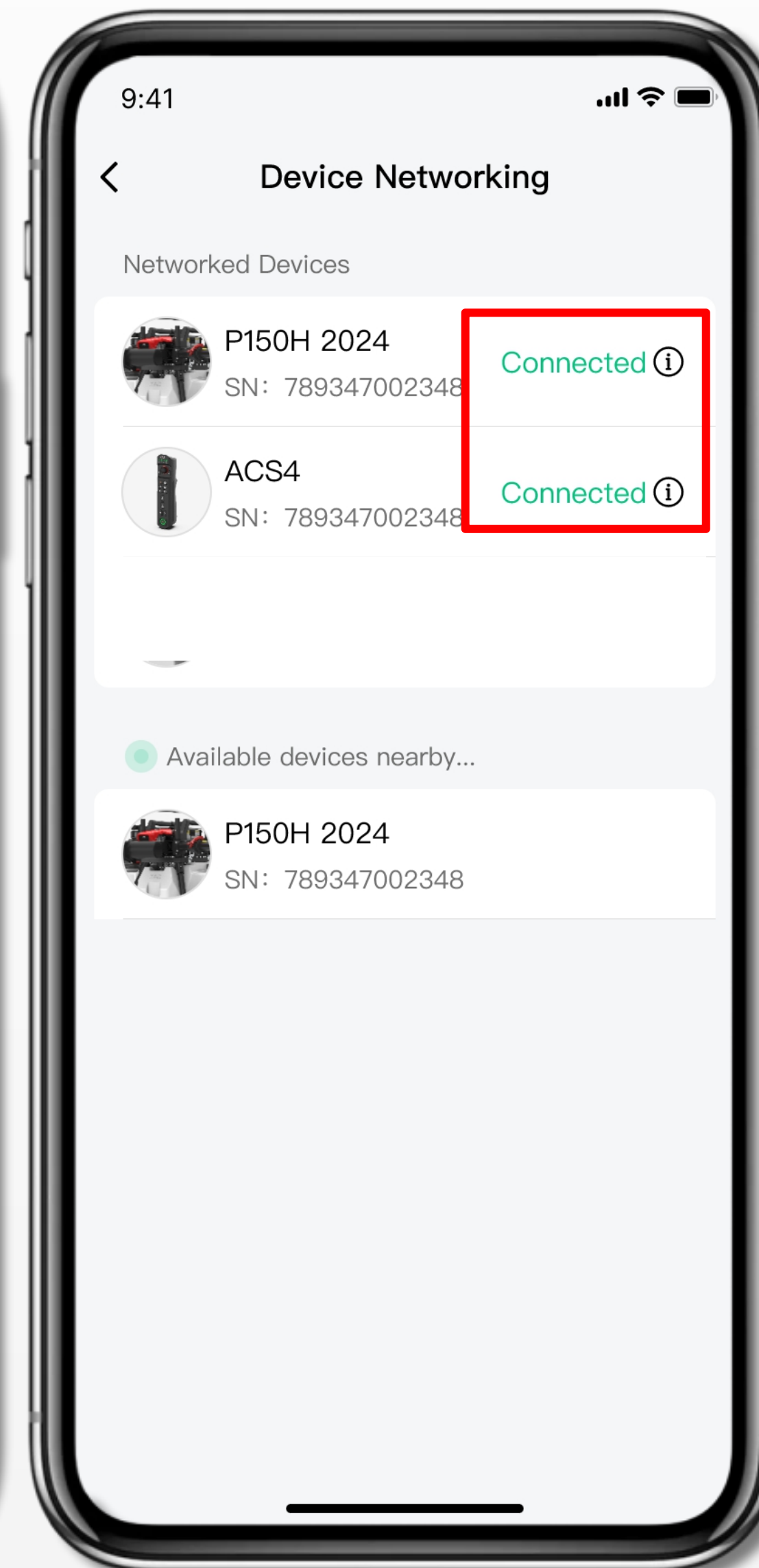
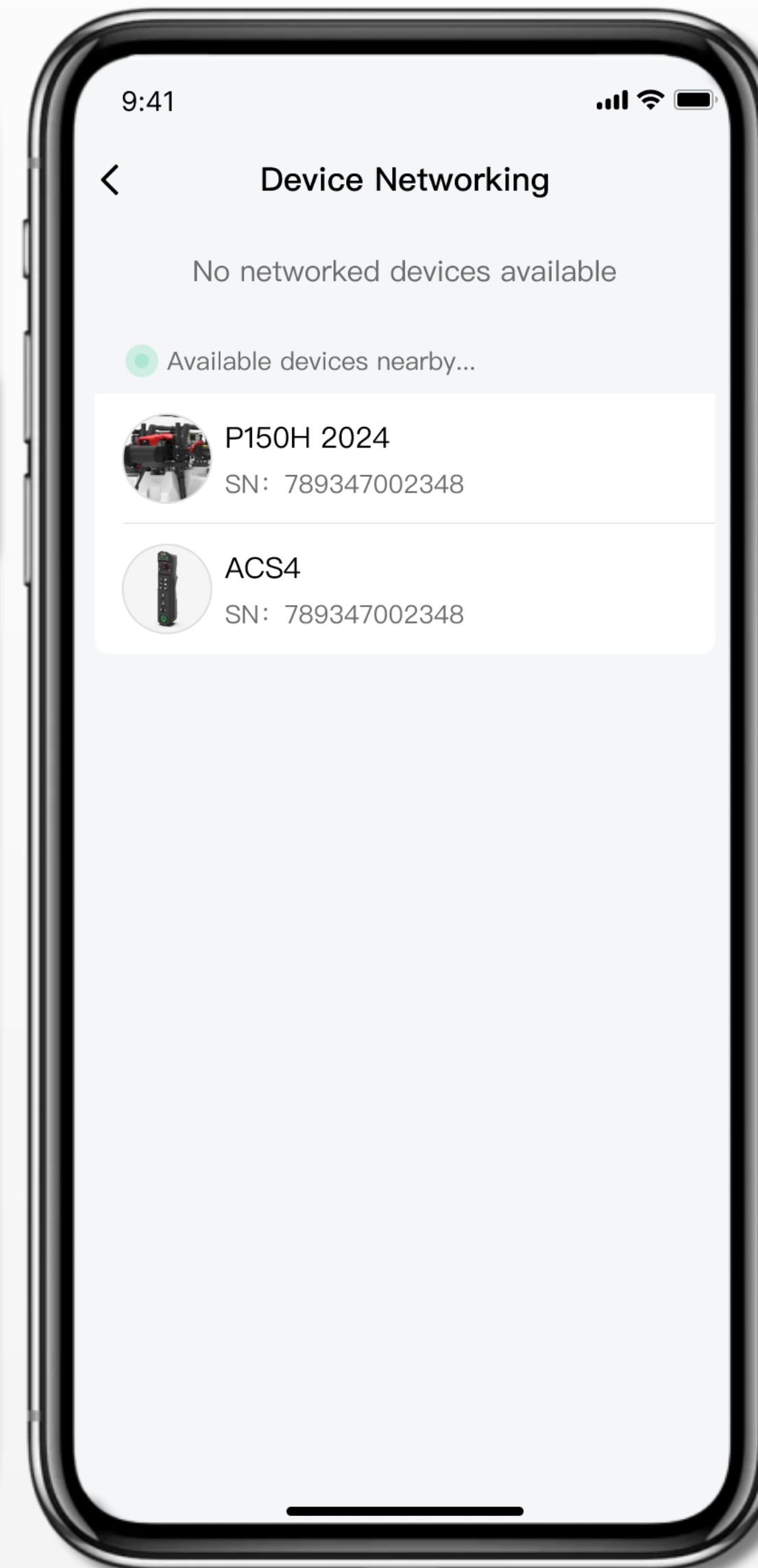
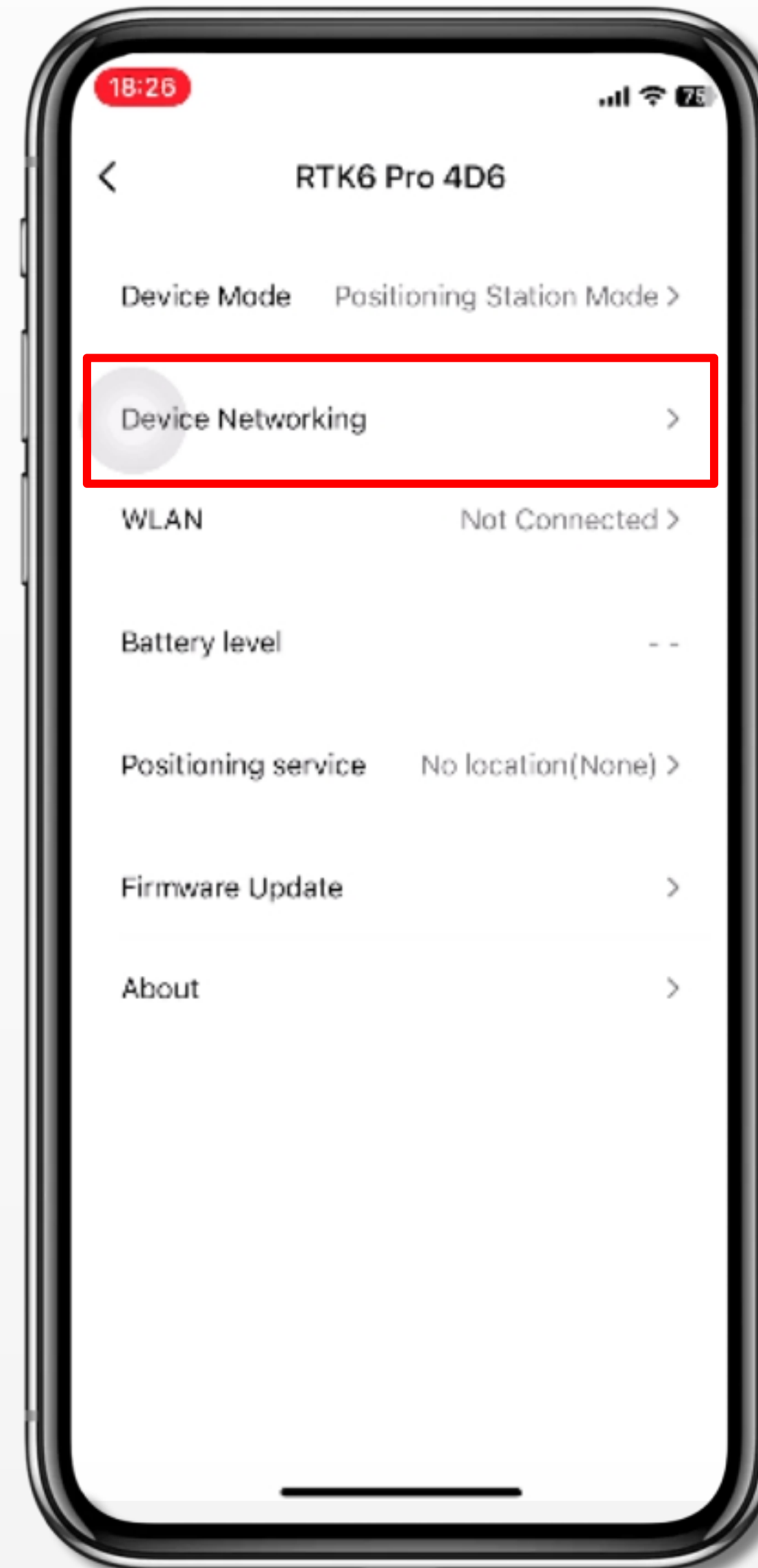
Operating Procedures

- Open the XAG One App and tap "Me".
- Tap "Device" and select the XRTK6 Pro to be configured as the networking hub.



Operating Procedures

- After entering the "Device Details" of XRTK6 Pro, tap "Device Networking" to access the networking screen.
- A list of nearby devices awaiting networking will be displayed.
- Manually select the target device to finalize the device networking.



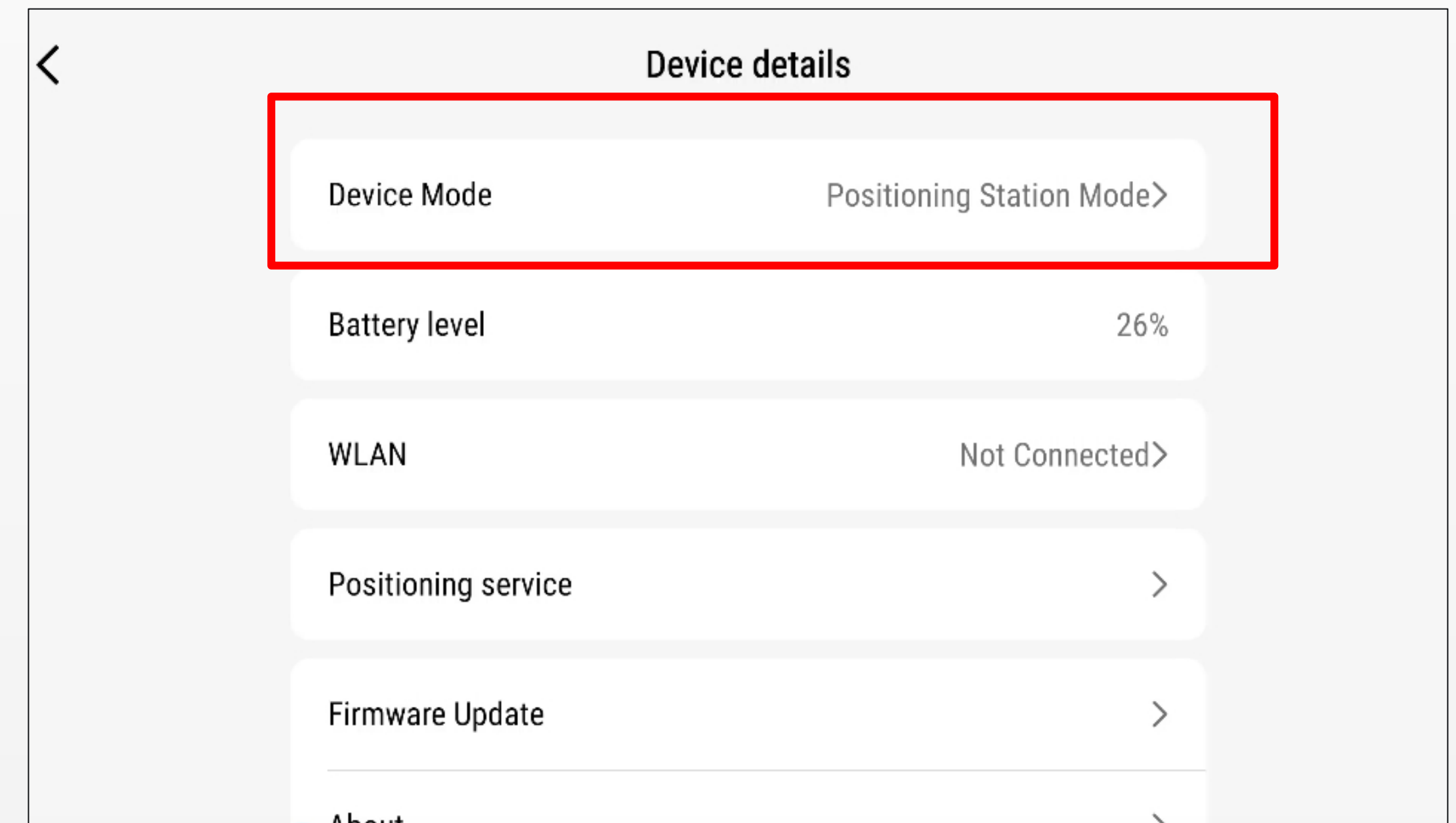
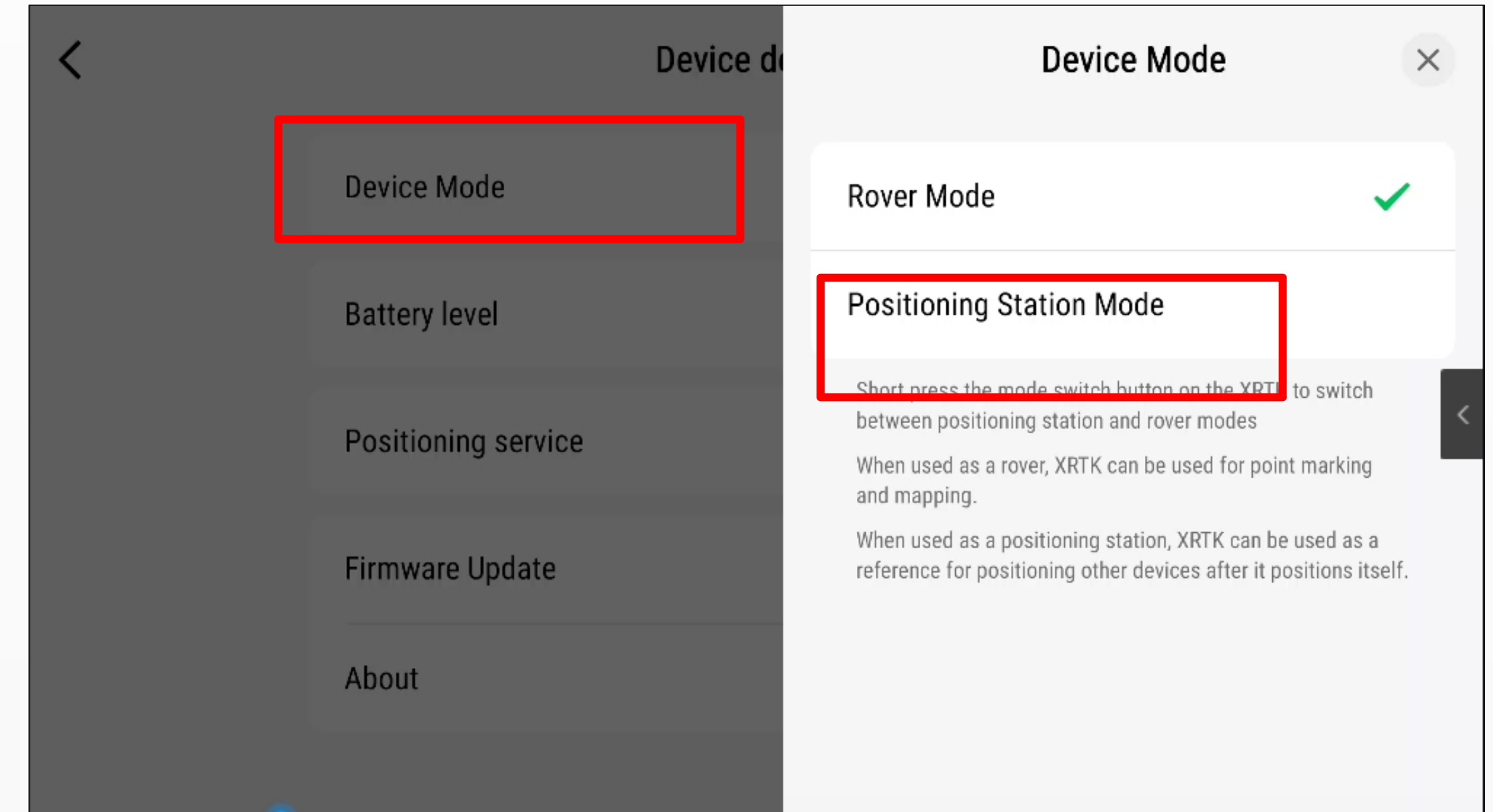
03 | Set XRTK6 Pro as Portable Base



Operating Procedures

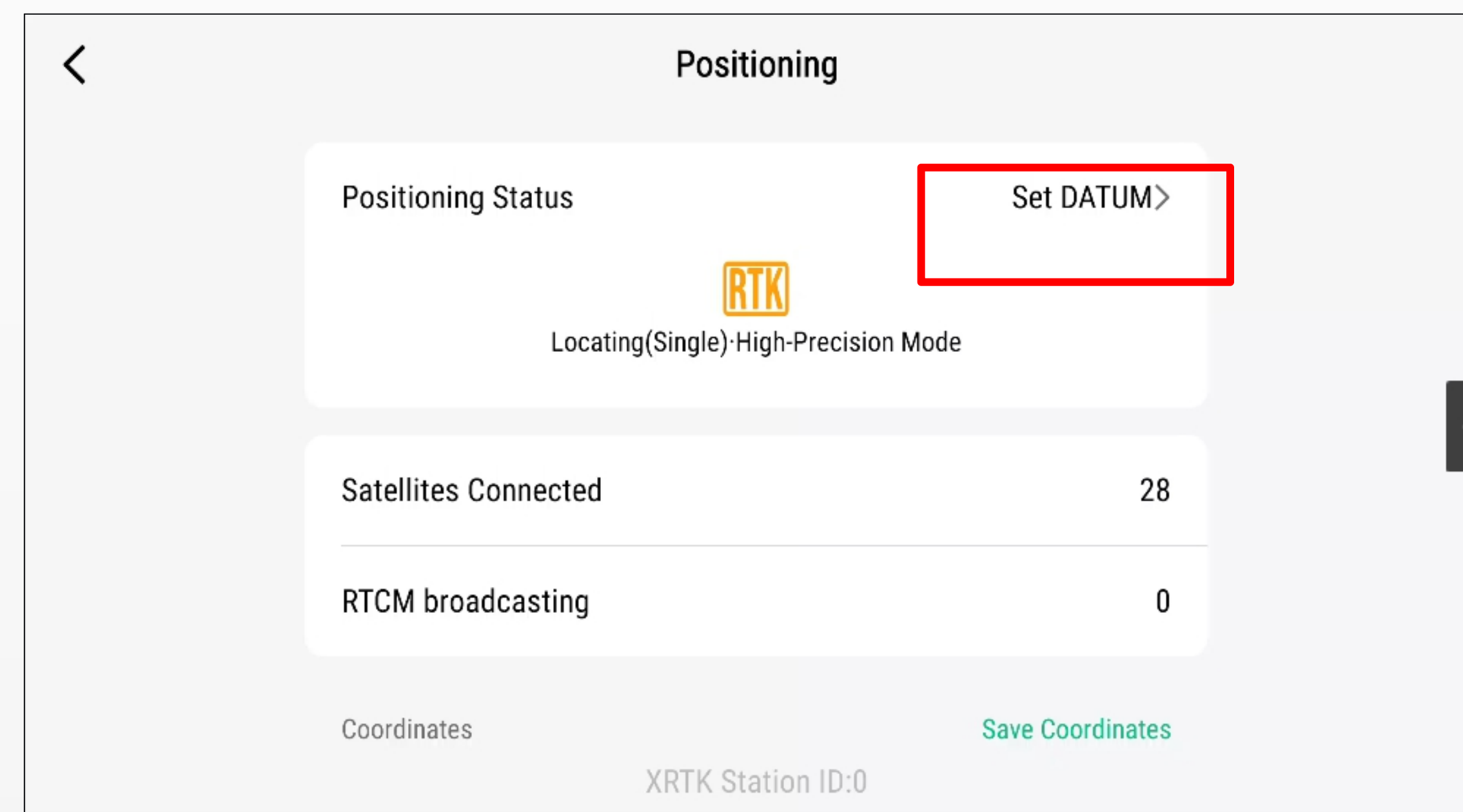
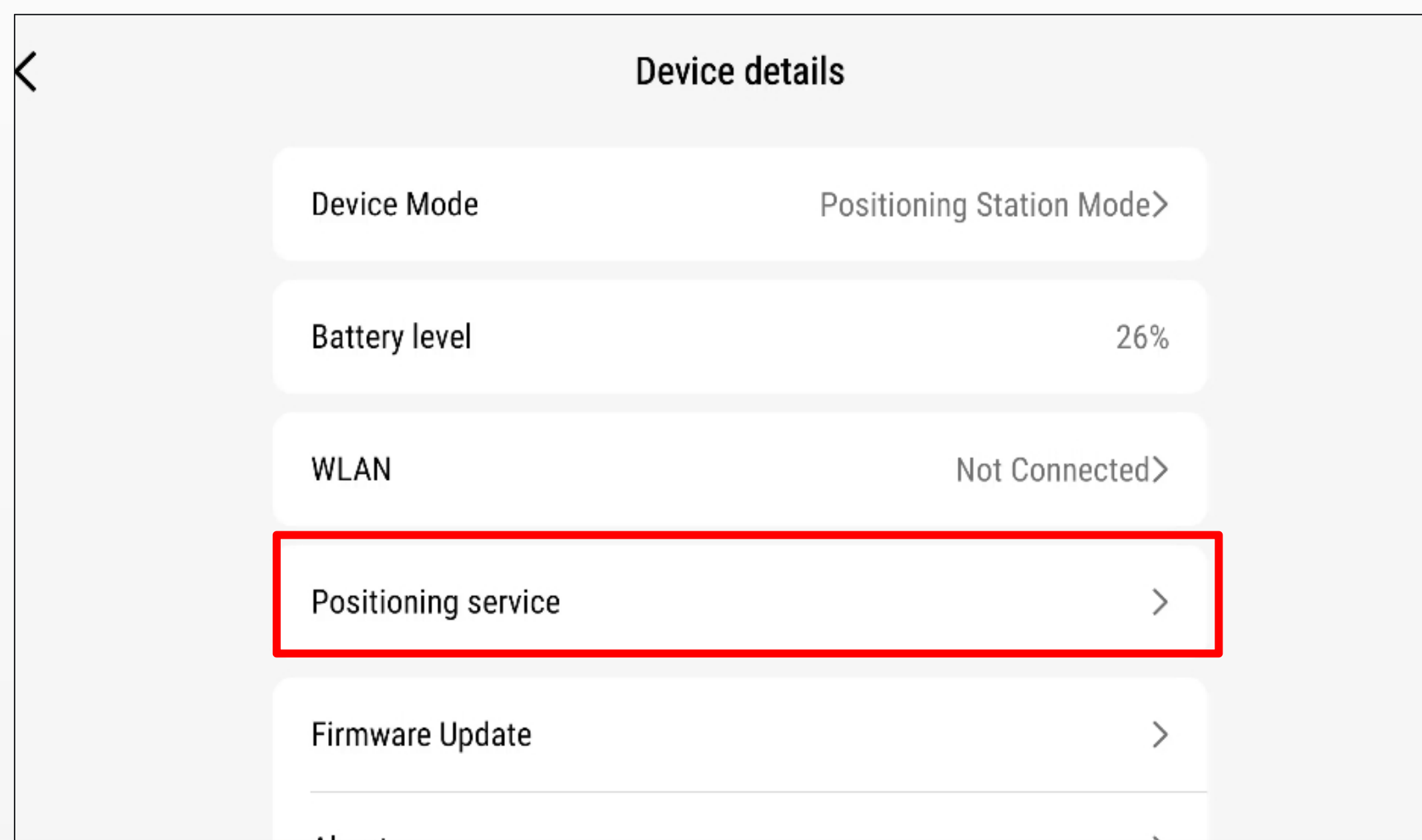
- Ensure the XRTK6 Pro is powered on, operational, and connected to the drone.
- Open the XAG One App, tap "Me" - "Device", and then tap "XRTK6 Pro" to enter the Device Details screen.
- Select "Device Mode" and switch to "Fixed Station" mode.

Note: After powering on XRTK6 Pro, the mode can be switched to "Fixed Station" by briefly pressing the control button. The successful mode transition is confirmed when the Portable Base indicator (S light) is on.



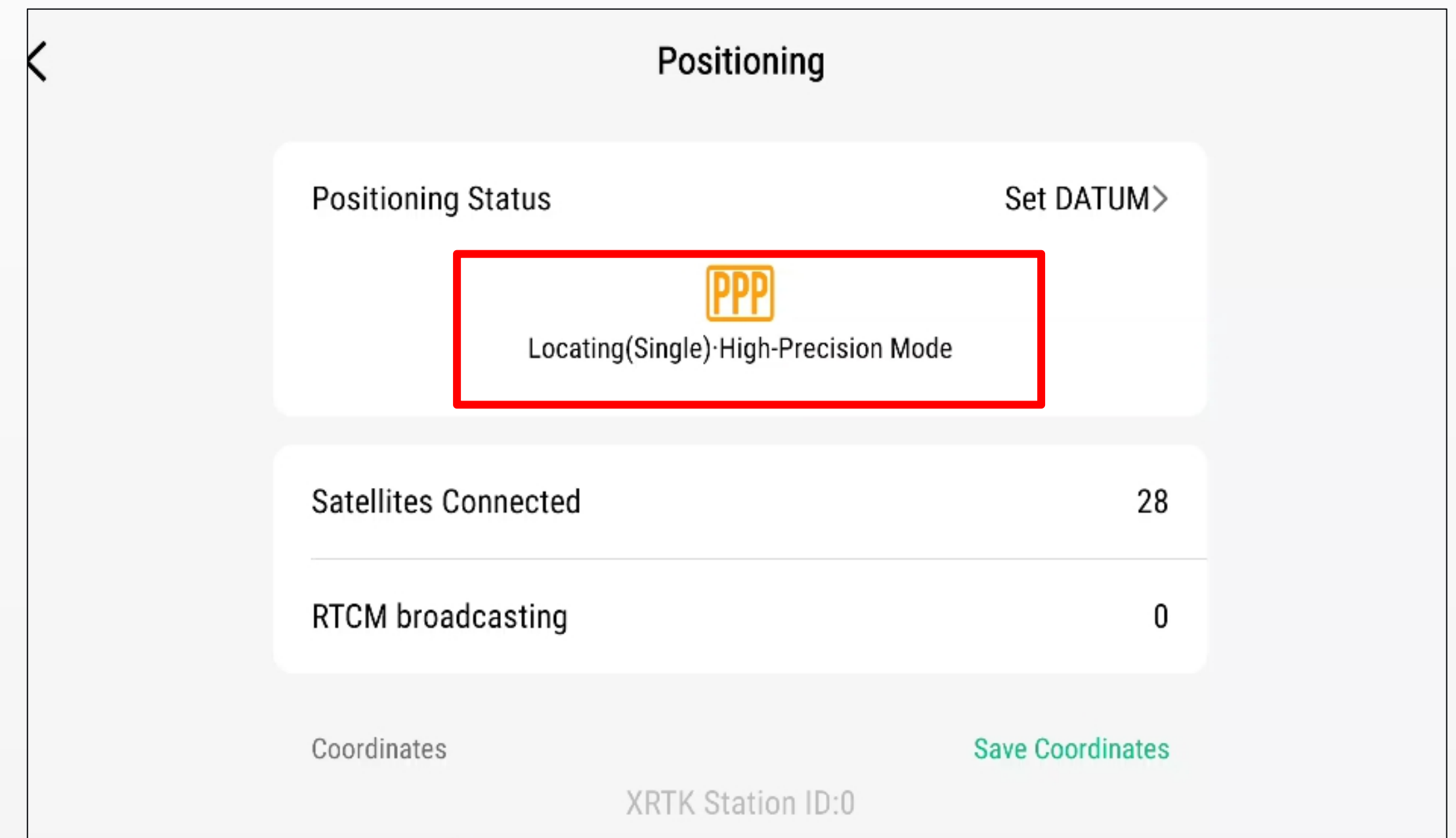
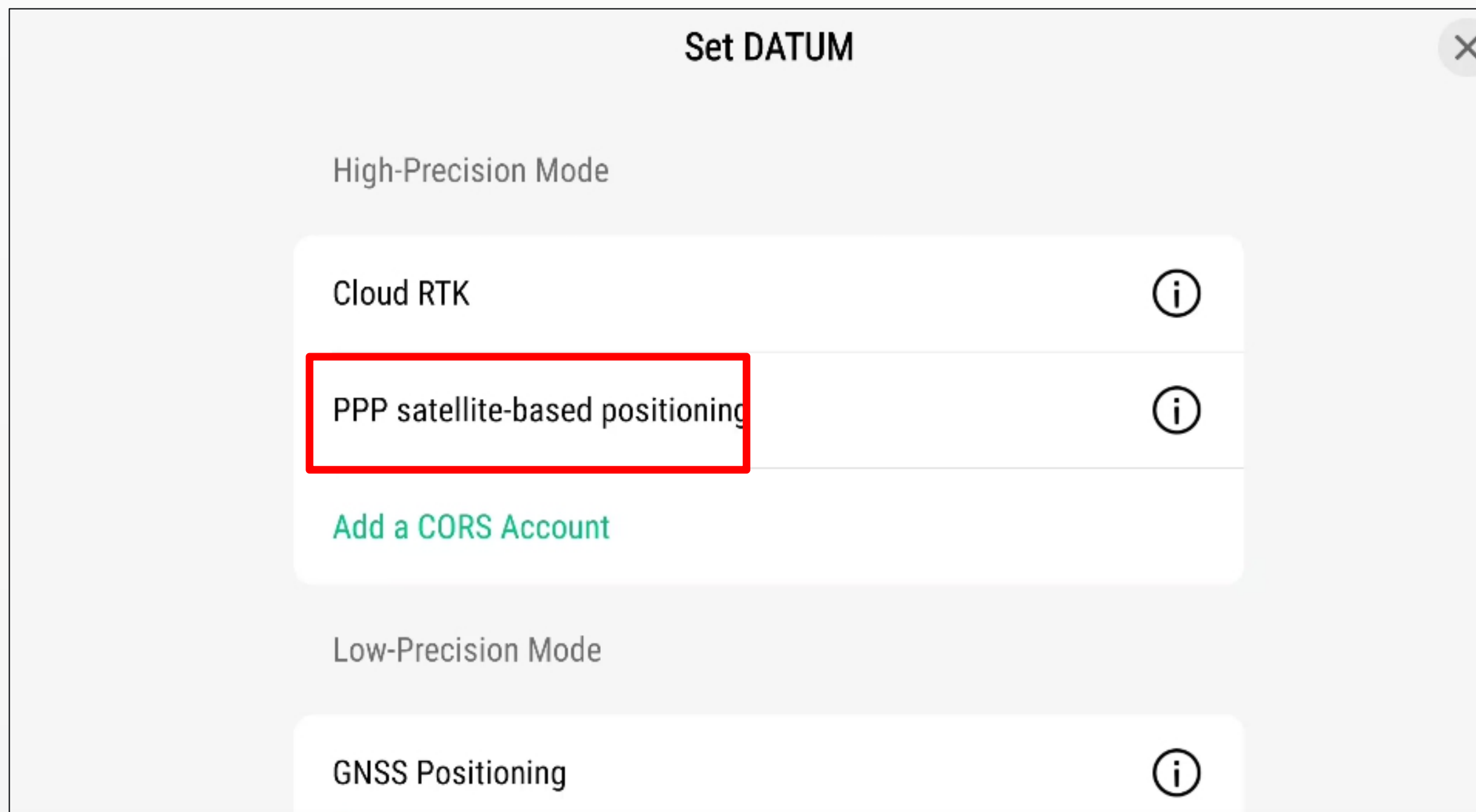
Operating Procedures

- Return to the "Device Details" screen, select "Positioning Service", and tap to select "Set Datum".



Operating Procedures

- Select the datum type as "PPP Positioning". Then, XRTK6 Pro will automatically obtain the coordinates, and be set as a portable station when the signal is stable.



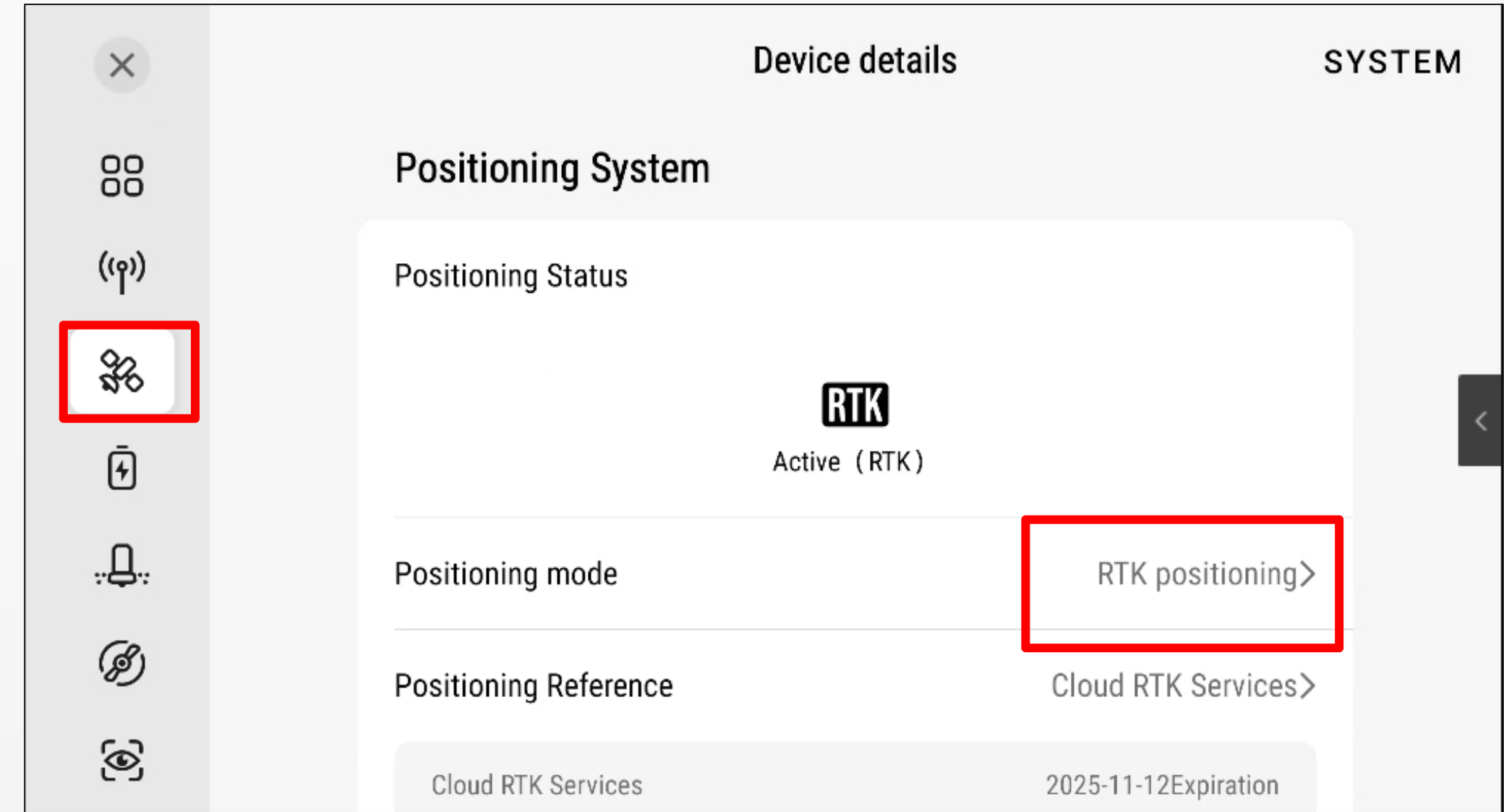
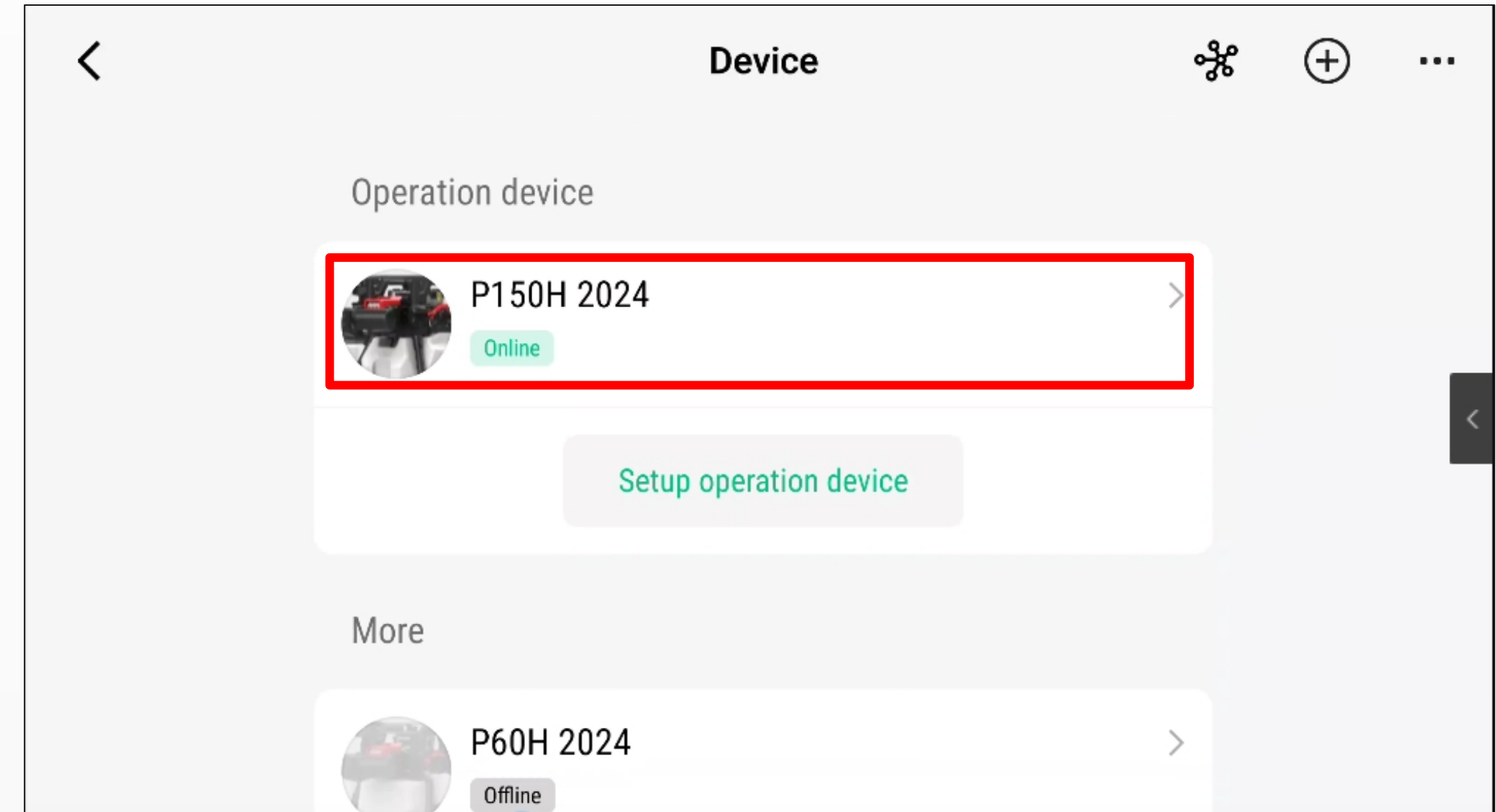
Operating Procedures

- After the setting is completed, return to the screen. When the positioning status bar displays "Fix (normal)", it indicates that the station positioning is successful.



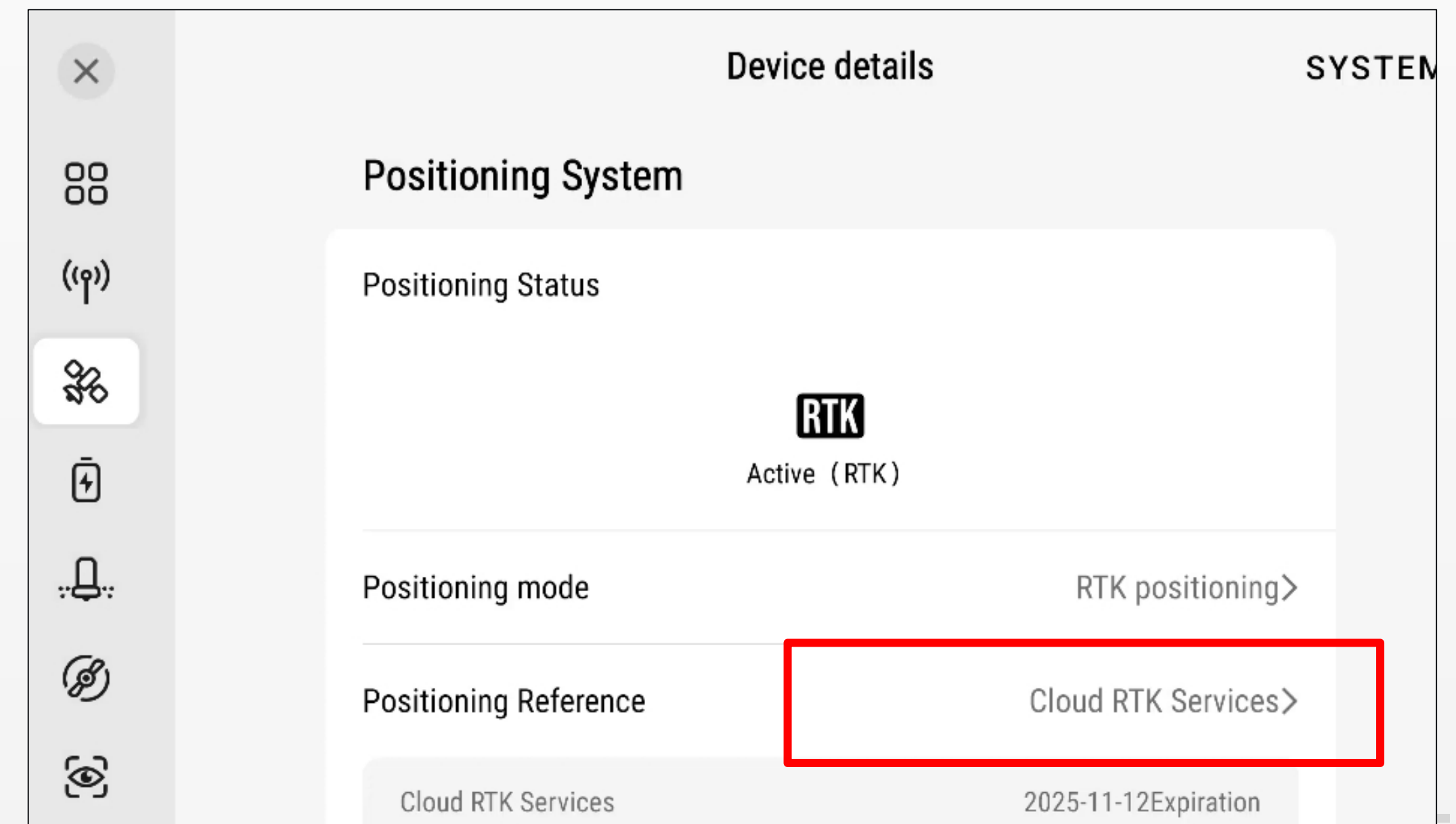
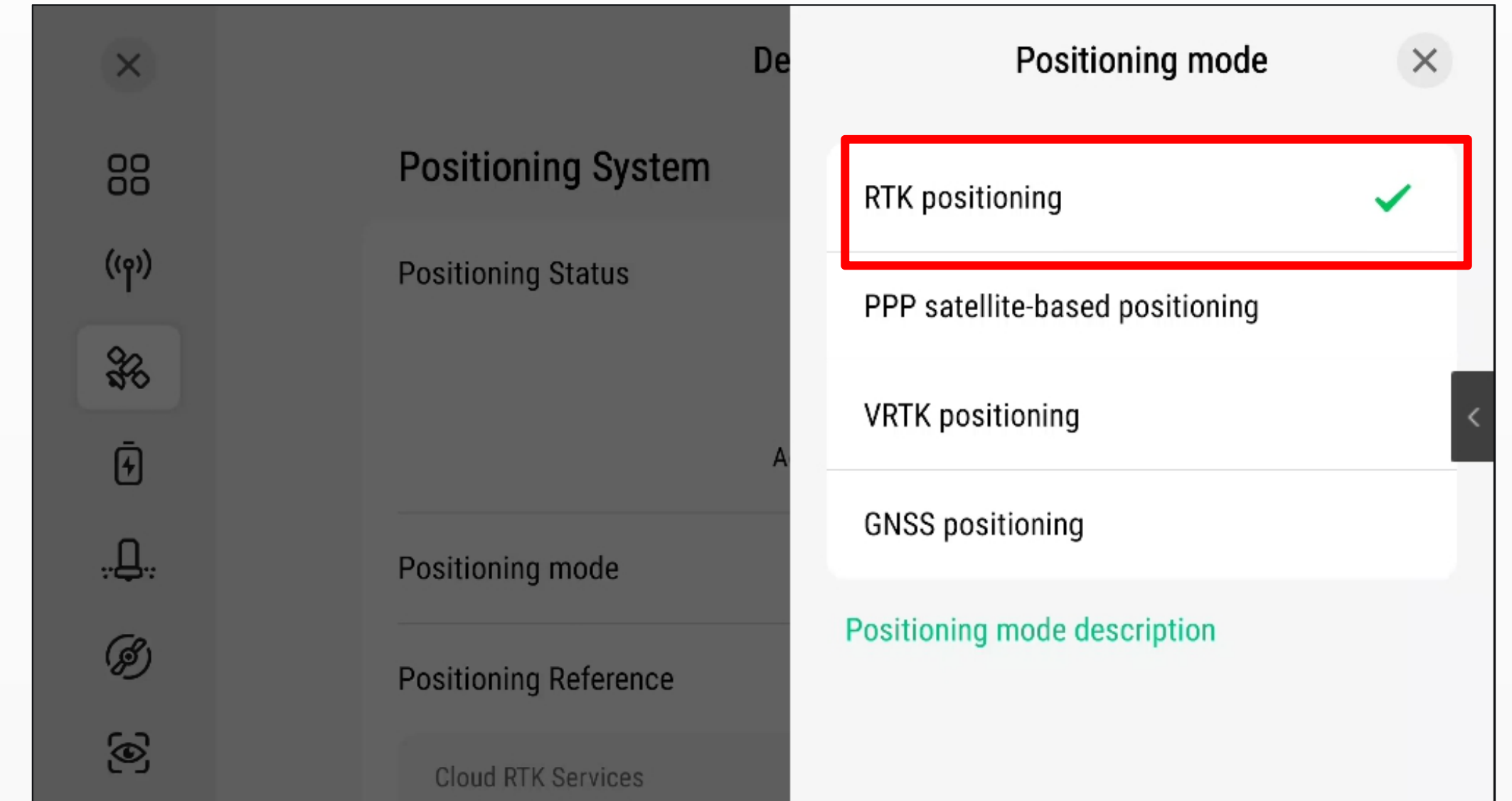
Operating Procedures

- In the "Device" screen of the App, select the drone to be operated to enter the "Device Details" screen.
- Select "Positioning System", and tap "Positioning Mode".



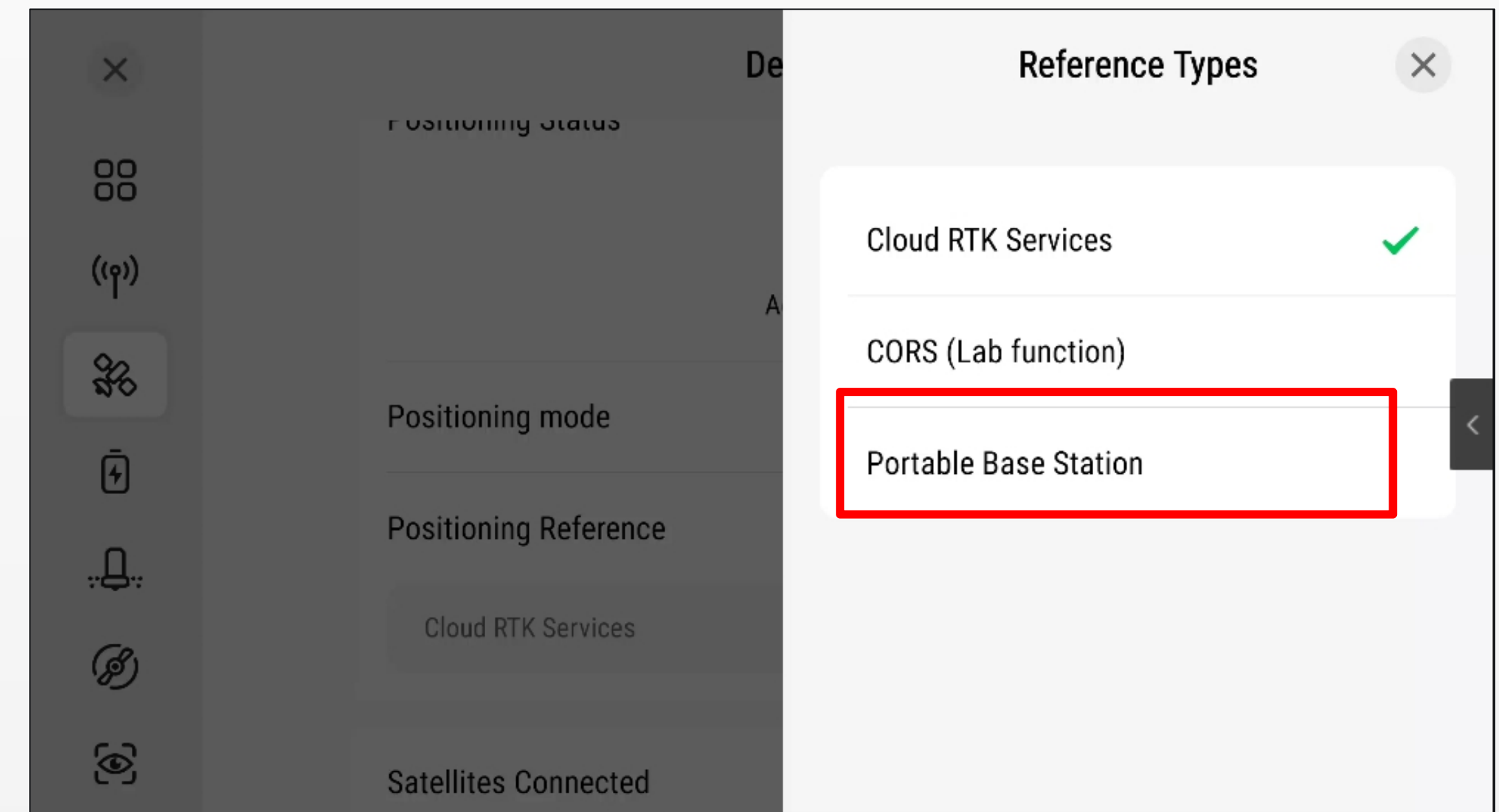
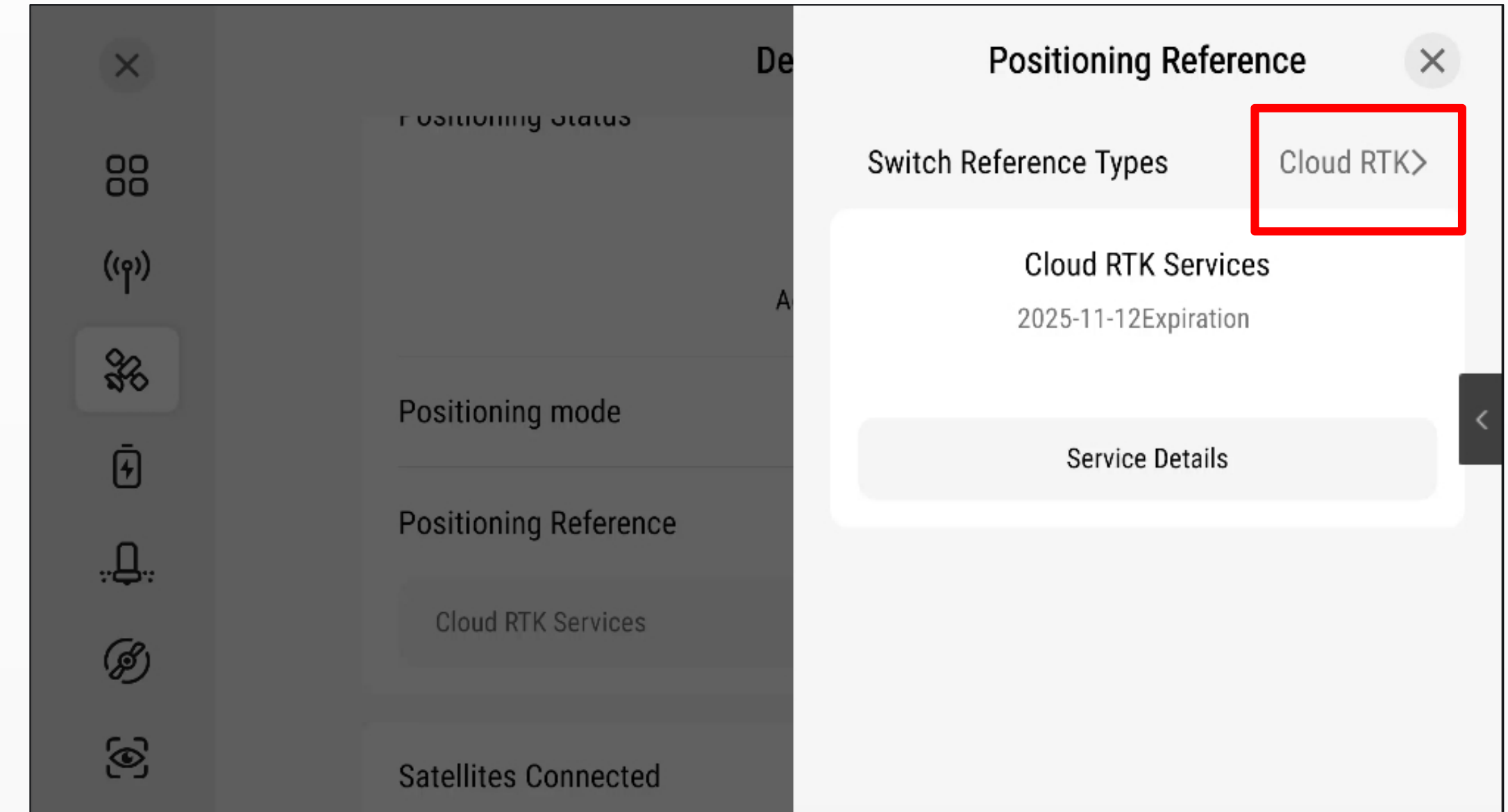
Operating Procedures

- Select "RTK Positioning" to enter the screen of RTK positioning details.
- Tap "Positioning Reference" to proceed to the next step.



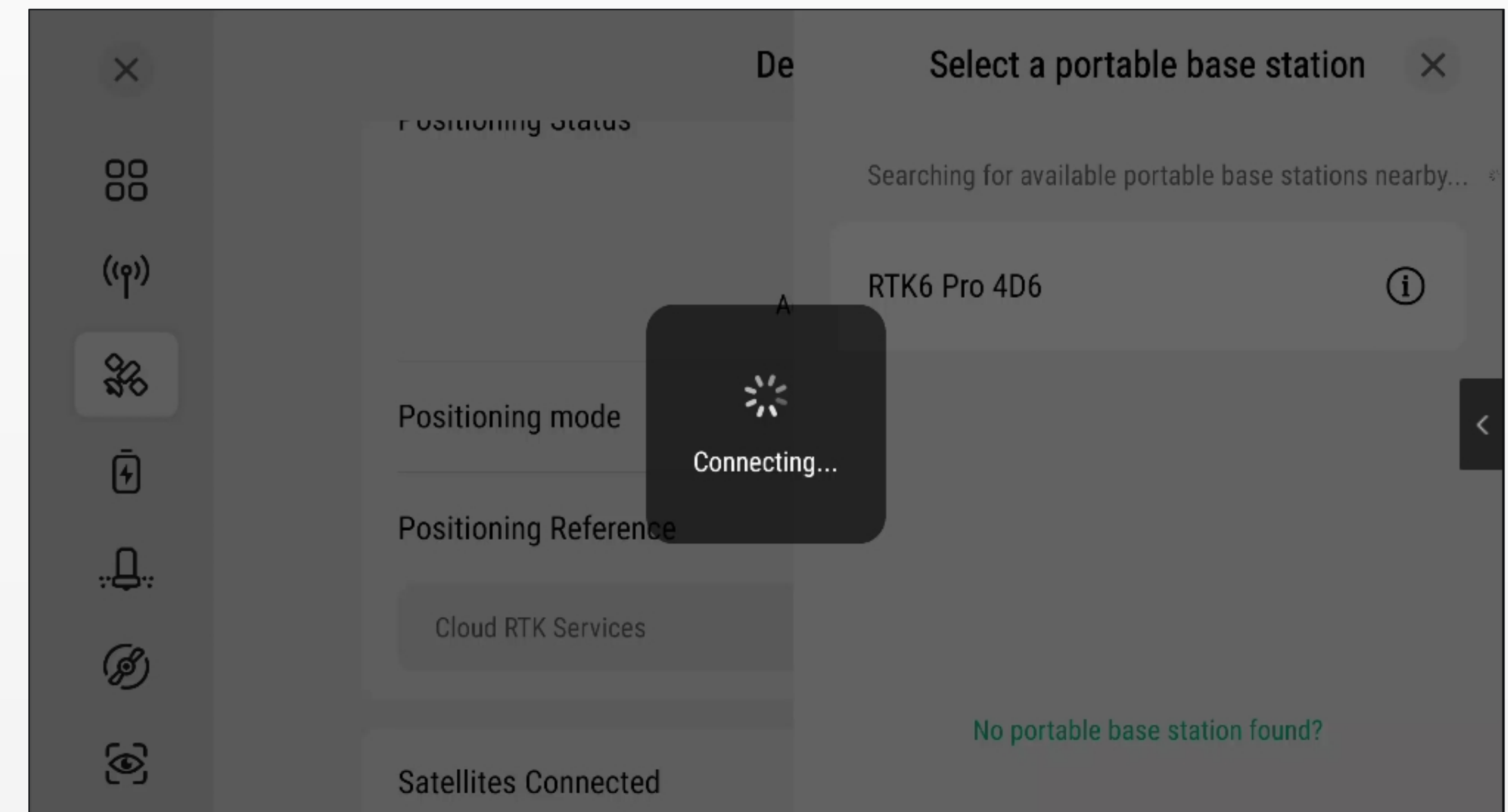
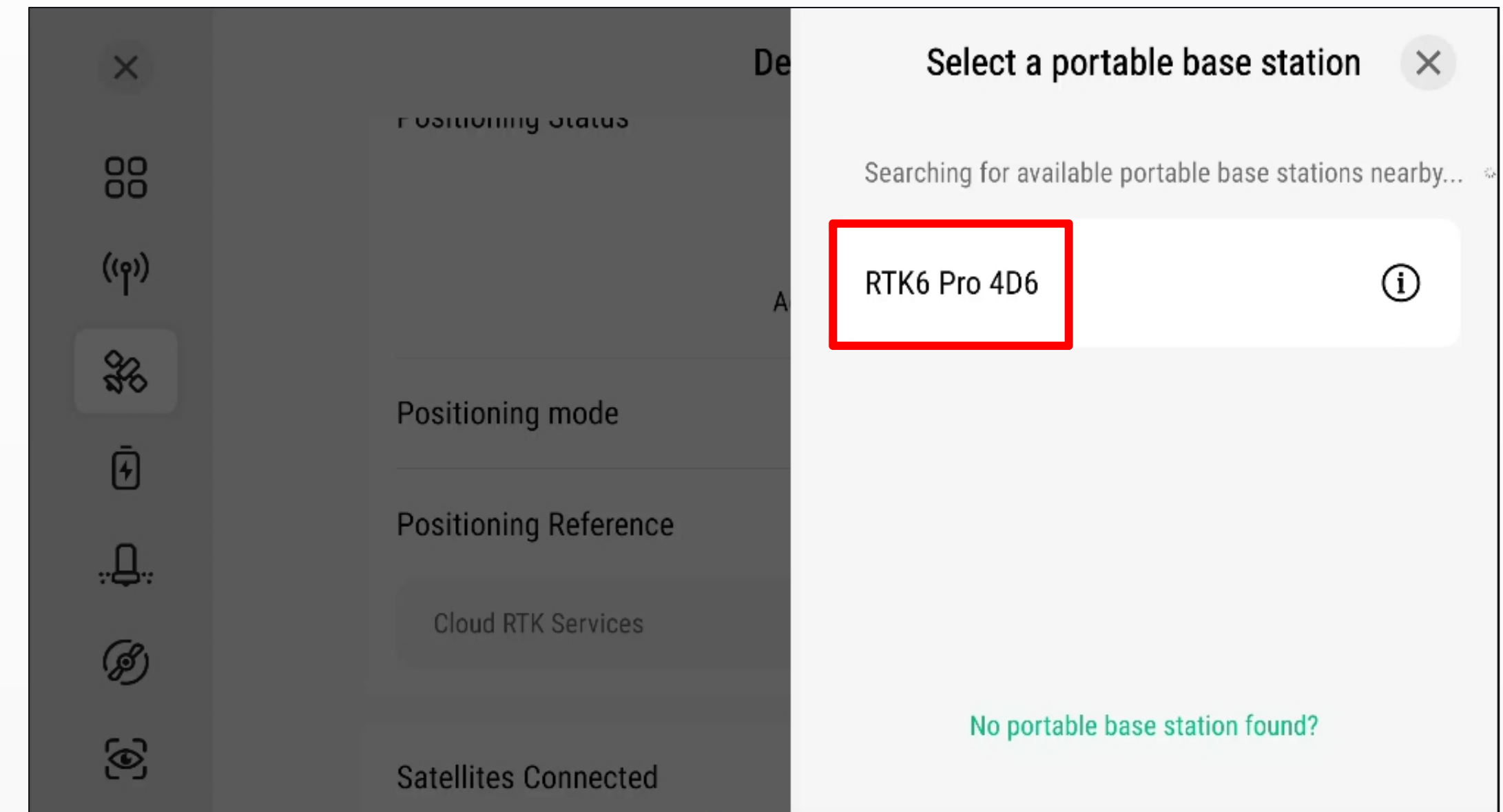
Operating Procedures

- Select "Switch Reference Type" and select "Portable Base".



Operating Procedures

- After finding and tapping the XRTK6 Pro's name, the device will be automatically connected to XRTK6 Pro as the portable base.
- Upon confirming successful connectivity with the portable base, return to the App's home screen to perform operations in a networkless environment.



THE END

