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Service Bulletin	

Release Notes for Cayley Tactical UKR 3

Products affected by this update

Skydio X10D & Skydio Controller

Overview

Skydio X10D 43.152.61

Skydio Controller 46.46.72

This release improves power protection for the External Radio Kit, expands Dynamic Channel Switching behavior, enables Blackout Mode at startup, and updates controller HDMI mirroring.

External Radio Kit Brown Out Protection

Brown-out protection helps keep the External Radio Kit from consuming more power than the MimoTik Power-over-Ethernet supply can provide.

Operator action: *None. Protection is active automatically after the vehicle and controller are updated to this release.*

Updated Dynamic Channel Switching

Dynamic Channel Switching (DCS) has been updated with the following changes:

- **Automatic channel generation.** Select the bands you want to use and the app fills the six DCS channels for you.
- **RF Only is the new default.** RF Only replaces Standard mode. It changes channels based on RF noise conditions alone, so it is more sensitive to interference.
- **New MH Dynamic mode.** Channel switching is handled by the Microhard radio, which uses additional RF properties to decide when to change frequencies. It uses the same six configured channels as RF Only.

How to generate DCS channels from selected bands

1. Power on the controller and connect to the X10D.
2. Open Settings and select Radio from the left-hand menu.
3. Select Generate DCS Channels.
4. Select the bands you want to use. Any combination of available bands can be selected.
5. Confirm. The app populates all six DCS channels with frequencies from the selected bands.

The generated list follows these rules:

- Channels are spread across each selected band when there are enough available frequencies.
- Channels are spaced at least 16 MHz apart when the selected bands allow it.
- 2.4 GHz is used only when it is the only band selected.
- The channel list is saved when DCS is turned off and back on.

How to select DCS frequencies manually

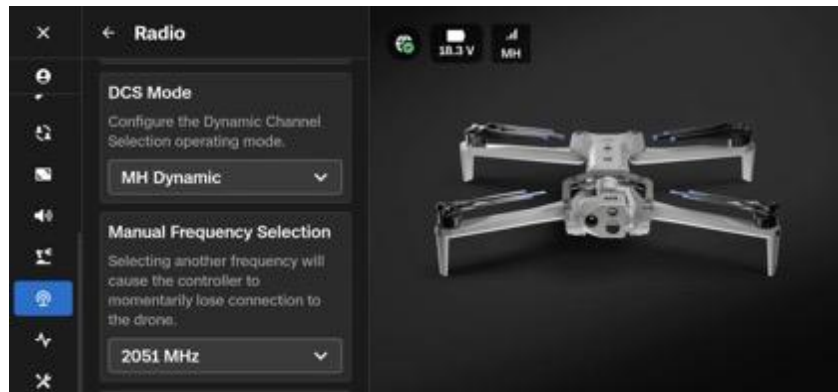
1. Open Settings and select Radio.
2. Choose frequencies from the channel list instead of using the generated values.

NOTE: Use manual selection when your operation requires assigned frequencies. Changing the active frequency causes the controller to momentarily lose connection to the drone.

How to change the DCS mode

1. Open Settings and select Radio.
2. Scroll to DCS Mode.
3. Select RF Only (default) or MH Dynamic from the drop-down.
4. Wait for the connection to restore. The radio link may drop briefly while the setting is written to the vehicle and controller radios.

NOTE: MH Dynamic requires a DCS channel list. Generate or select channels before switching to MH Dynamic.



Blackout Mode Enabled by Default

Vehicles now start with Blackout Mode enabled. This reduces the risk of unintended light emission if an operator forgets to enable Blackout Mode before flight.

How to turn Blackout Mode off

1. Open Settings.
2. Turn the Blackout Mode toggle off.

NOTE: Confirm the Blackout Mode setting during preflight checks. Turn it off only when vehicle lights are required.

Controller HDMI Mirroring Improvement

Controller screen mirroring over HDMI now uses H.265.

How to set up HDMI mirroring

1. Connect the external display to the controller with an HDMI cable.
2. On the flight screen, open the camera settings and select the Video settings tab.
3. Under Video Encoding, select H.265.
4. Close the Video menu and confirm the controller screen appears on the external display.

NOTE: Always select H.265 as the Video Encoding setting.

