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Mission Control Station (MCS) 13.0 Upgrade Service Bulletin (20230718-001)

This is a mandatory upgrade for SkyRanger® R70 aircraft. This service bulletin provides an overview of the new features and the procedure for upgrading.

 PRINT

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Service Bulletin Type

This is a **mandatory** upgrade for SkyRanger® R70 systems and is not for use with SkyRanger® R60 systems.

Details

The updates included in this software release incorporate new features and fixes for previous versions of MCS. This release builds upon the User Interface (UI) improvements from 11.3 and adds a set of new features designed to enhance the mission capability of your SkyRanger UAS.

New features in Mission Control Station Version 13.0

- **Redesigned user interface** – New in this release is a major update to the user interface for MCS. In addition to changing the color scheme from light to dark, the new interface changes the way that you access many of the features of the software. The changes were made to improve the overall workflow and to remove clutter.
- **Addition of Remote ID** – This release supports the Remote ID feature which is a mandatory requirement for UAS operators in some geographical regions. You can broadcast a Remote ID to provide information about yourself as an operator, the location of your flight, the aircraft that you are using, and aircraft telemetry. In some regions, you must lock Remote ID on. For more information on how to comply with Remote ID, see [KA-02611 - Becoming Remote ID compliant](https://selfservice.teledynelfir.com/knowledgebase/article/KA-02611/en-us) (<https://selfservice.teledynelfir.com/knowledgebase/article/KA-02611/en-us>).
- **Enhancements to GPS Denied Mode** – This release allows you to take off in GPS Denied Mode or when GPS is limited or not available. You can also initiate flight control optimization manually if GPS is obtained during the flight.

- **Additional improvements** – The following additional improvements were made in this release:
 - Two additional actions were added for waypoints: Go Home points and Drop and Go Home Points.
 - You can now configure whether the aircraft radio should turn off when the aircraft is flying in Autonomous Waypoint Mode.
 - Measurement Mode Augmented Reality is no longer an experimental feature. It was enhanced and expanded in this release to include Augmented Reality Navigation.
 - Cursor on Target is also no longer an experimental feature. In this release, support was added for transmission over TCP.

Links to user documentation in the Customer Portal

For more information on the changes in this release, review the following documents in the Customer Self-Service Portal:




- [SkyRanger® R70 Pilot Operating Manual for MCS Version 13.0](https://selfservice.teledyneflir.com/knowledgebase/article/KA-02606/en-us)
(<https://selfservice.teledyneflir.com/knowledgebase/article/KA-02606/en-us>)
- [Release Notes for Mission Control Station Version 13.0 for use with SkyRanger® R70](https://selfservice.teledyneflir.com/knowledgebase/article/KA-02608/en-us)
(<https://selfservice.teledyneflir.com/knowledgebase/article/KA-02608/en-us>)

Customer action

Recommended: Download and install MCS Version 13.0, upgrade your system software, then reset the Windows firewall.

Download and install software updates

If an update is available, when you connect the tablet to the internet, a notification appears in the Windows notification area.


1. In the Windows notification area, right-tap .
2. Tap **Download Software Update**. While the software is downloading,  appears in the Windows notification area.
3. After the download finishes, right-tap .
4. Tap **Install new software updates**.

If an update notification does not appear on your tablet, click here ([.exe](https://aeryonpublicsite.blob.core.windows.net/support-public/MCS_R13.0.0.24414-3aeb662.exe) (https://aeryonpublicsite.blob.core.windows.net/support-public/MCS_R13.0.0.24414-3aeb662.exe) file) or here ([.zip](https://aeryonpublicsite.blob.core.windows.net/support-public/MCS_R13.0.0.24414-3aeb662.zip) (https://aeryonpublicsite.blob.core.windows.net/support-public/MCS_R13.0.0.24414-3aeb662.zip) file), and download MCS 13.0 onto the tablet.

Upgrade the system software



The tablet, base station, and aircraft must use the same system software version. You can upgrade the base station and aircraft independently but performing a system upgrade is the easiest way to make sure that all components are using the same version. If you update the tablet first, it prompts you to update the entire system.


When you update the system, it must proceed without any interruptions. Before updating the software, fully assemble the aircraft. You must keep the tablet, base station, and aircraft turned on and connected during the update.

 When upgrading, connect the tablet and base station to power outlets and install fully charged batteries into the aircraft. The upgrade does not proceed if the battery power level in the aircraft or base station is less than 15%.


After the update of the aircraft and base station is complete, the system updates all attached parts, include each leg, propulsion arm, payload, and battery. To update the arms, you must attach all four arms to the aircraft or take control of the aircraft in MCS first.

If you have extra batteries, legs, payloads, or propulsion arms, you must update those parts before flying with them. If you insert a part that does not match the system software, an error appears, and you cannot proceed with the flight until the part is updated. You must have at least two batteries in the aircraft to update the batteries.

 After you update a battery, the first time that you press , six LEDs light up on the side of the battery. After the six lights appear, the battery LEDs light up to show the actual battery power level.

1. Open MCS.
2. In the lower-left corner of the screen, tap .
3. In the **Available Aircraft** dialog box, beside the aircraft name, tap **Update System**.
4. In the **FLIR System Update Tool** dialog box, tap **Update System**.
5. To view status information about the update, including the percentage of the update completed, select the **Show Details** check box.
6. After the update completes, close the dialog box.

After updating the system, the base station and aircraft restart and reconnect. If the update was successful, in the **Available Aircraft** dialog box, **Disconnect** appears beside the name of the aircraft. The aircraft's IP address appears below the aircraft name.

 If the aircraft does not appear in the dialog box, check that your tablet is connected to the base station. Restart the aircraft and base station.

Contact SkyRanger Support

If you require further assistance, contact SkyRanger Support.

- If you are a current customer, visit our Customer Self-Service Portal at <https://selfservice.teledyneflir.com> (<https://selfservice.teledyneflir.com>).
- Call:
 - USA customers: +1 602-883-8287. Press 4.
 - International customers: +1 519-489-6726. Press 4.
- Email the Support team at skyrangersupport@teledyne.com (<mailto:skyrangersupport@teledyne.com>).

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