



# IRIS Dialer Pre-Flight Functionality Check

For models 2.x & 3.x

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|-----------------|------------------|
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## Revision history

| Rev. | Description of change | Date             |
|------|-----------------------|------------------|
| 1.0  | Initial document      | December 2, 2025 |

## Purpose

Ensure the Iris System is fully operational, recording, and SATCOM-ready before flight.

## 1. Pre-Power Checks (Before Aircraft Power-Up)

### **Verify SD Card Installed**

- Confirm the SD Card is present in the Dialer SD sled.
- Card should be fully seated and locked.
- If SD card is missing, system will not record FDM.

### **Check Dialer is Securely Mounted & Visible**

- Ensure the Dialer faceplate is unobstructed so LED indicators are visible during startup.

## 2. System Boot-Up Observation (During Aircraft Startup / Aircraft Power)

When the Iris Dialer receives power:

### **A. Bootup Sequence**

#### **Dialer displays “Outerlink FP Version” with firmware number**

- This screen normally displays up to 60 seconds, sometimes longer.
- This is the standard boot process (similar to a PC BIOS screen).

**All four green LEDs illuminate simultaneously**

- This is part of the startup self-test
- This does NOT indicate full operational status

## B. Transition to Operational Screen

**After boot completes, Dialer transitions to the PTT Talkgroup screen**

- Displays configured talkgroups
- This is the first point the LEDs should reflect true system status

*Do not evaluate LED status until this screen appears.*

## 3. Post-Boot LED Verification (Critical Pre-Flight Step)

Once the PTT Talkgroup screen is visible, verify the four green LEDs:

**LED 1 – Satellite Network Connected**

Solid Green

- Confirms the ViaSat or Certus Iridium terminal is online
- If not illuminated, SATCOM unavailable

**LED 2 – FDM Data Recording Active**

Solid Green

- Confirms Iris Processor is recording flight data
- If off, pull Iris circuit breaker, wait 30 seconds and push back in and wait for system to fully boot again.

### **LED 3 – Audio Recording Active**

Solid Green

- Cockpit/crew audio channels are recording

### **LED 4 – Video Recording Active**

Solid Green

- Camera feed is being captured and stored

If any LED does not illuminate, refer to your organization's operational policy regarding continued flight with a partially or non-functioning system.

## **4. SATCOM/PTT & Tracking Verification**

Confirm the selected PTT Talkgroup appears correctly

Rotate knob to verify the Iris Dialer is responsive and not in a frozen state

Make initial SATCOM transmission (Send/Receive)

Request Dispatch or Comm Center is Tracking in Axis

## **5. Red Flag Conditions**

The system may not be fully operational if any of these are true:

- SD Card is missing
- LED 2 (FDM recording) not illuminated after boot
- Dialer stuck on firmware splash screen (FP Version....)
- PTT Talkgroup screen never appears.

- Any LED flickering or intermittently dropping out

These indicate likely issues with:

- SD card failure
- Processor boot failure
- Network terminal offline
- Cabling/Ethernet issues
- Incomplete boot sequence

## 5. Quick Reference Summary (Pilot 10-Second Check)

Once PTT screen is displayed:

“SD Card in. Four green lights on. Talkgroups displayed.” If all three are true, Iris System is ready for flight.

## Iris Dialer – Pre-Flight Quick Checklist

### 1. SD Card Check (Before Power-Up)

- ☐ SD card installed in Dialer sled
- ☐ Card fully seated/locked

### 2. Boot-Up Sequence (During Avionics Power)

- ☐ Dialer displays “Outerlink FP Version” screen
- ☐ All four LEDs briefly illuminate during startup (normal)
- ☐ Wait for PTT Talkgroup screen before checking LED status

### 3. Verify LEDs After Boot (PTT Screen Visible)

- ☐ LED 1 – Satellite Connected (Green)
- ☐ LED 2 – FDM Recording Active (Green)
- ☐ LED 3 – Audio Recording Active (Green)
- ☐ LED 4 – Video Recording Active (Green)

### 4. SATCOM/PTT & Tracking

- ☐ Talkgroups displayed
- ☐ Make PTT transmission
- ☐ Verify PTT receive
- ☐ Verify Tracking in Axis

### 5. System Not Fully Functioning If:

- ☐ SD card missing
- ☐ Any LED remains OFF after boot
- ☐ Dialer stuck on firmware screen
- ☐ No talkgroups displayed