Quick-Start Guide for 3DR® Solo® Quadcopter

MINIMUM REQUIREMENTS

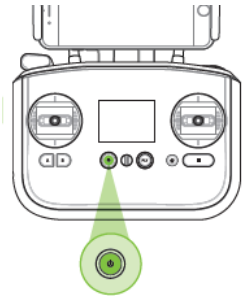
- Windows 7 Professional (64-bit), Service Pack 1; Windows 10 Pro (64-bit)
- Processor: Quad Core, 2.2 GHz, 6MB Cache
- Memory: 4GB DDR3 1600 MHz
- Graphics Card: 1GB GDDR5 Dedicated Memory
- DirectX 11.0
- Storage: 64 GB
- Display Resolution: 1280 x 1024 at 96 DPI

REQUIRED RESOURCES

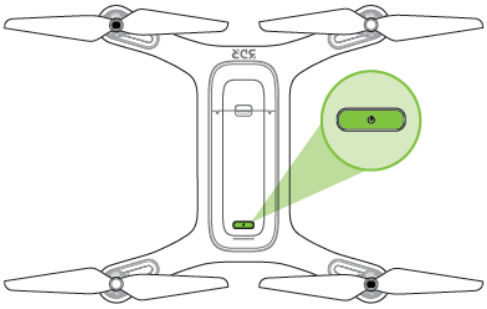
- INEXA™ Control Software Installed and licensed
- Unmanned Vehicle Plugin for ArduCopter
- ArduCopter Simulation Plugin
- 3DR Solo with latest 3DR Officially released software and firmware
- Dedicated Wireless Network Interface Card (for Solo)
- Online Map Service: Broadband Internet Connection separate from vehicle specific communication hardware requirements
- Offline Map Service: ESRI ArcMap 10.1; Broadband Internet Connection for creation of offline maps from online sources within INEXA Control

1. Ensure your 3DR Solo is running the latest 3DR officially released software and firmware. This is done via following manufacturer's instructions to update using the 3DR Solo app or via the Solo command line interface.

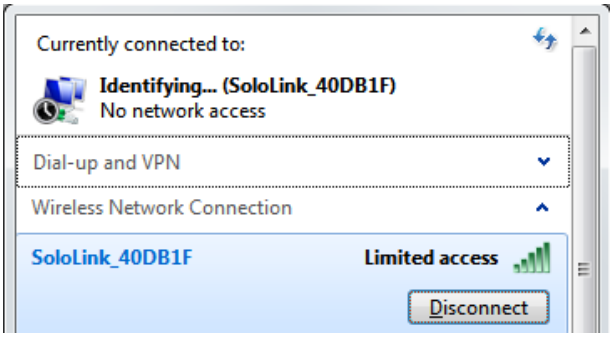
2. Follow manufacturer's guide to power up the controller.



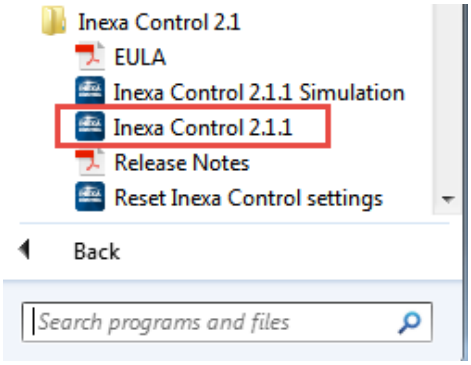
3. Follow manufacturer's instructions to power up and calibrate 3DR Solo including instructions displayed on the Controller



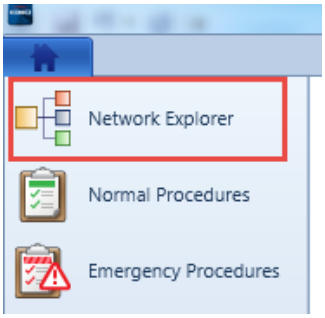
4. Connect your Inexa Control PC to the 3DR Solo Wi-Fi:



5. Launch INEXA Control 2.1.1 program



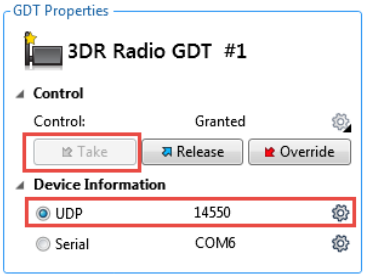
6. From Inexa Control, **click on the home icon** and then **click Network Explorer.**



7. From the Network Explorer, select **3DR Radio GDT** under **Ground Data Terminals (GDT)**

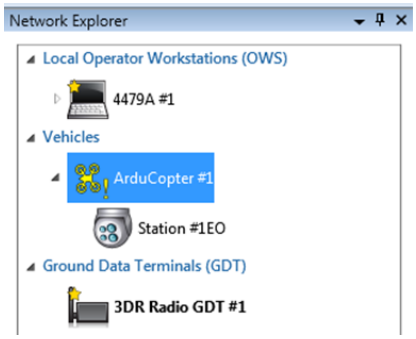
IMPORTANT: If firewall is enabled, ensure to allow UDP port 14550

8. Under GDT Properties area **click the cog** to expand the options then **click "Take**" to take control of the GDT. Click to expand Device Information, **select UDP,** and ensure port is **14550**.



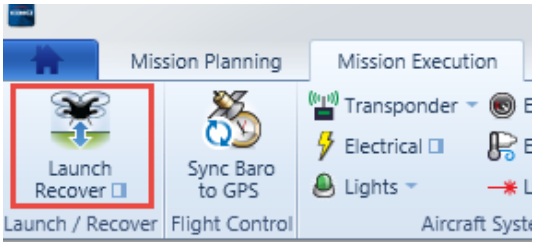
IMPORTANT: Ensure your phone/tablet is NOT connected to the 3DR Solo WiFi. Also ensure that the 3DR Solo app is NOT started on phone/tablet.

9. From the Network Explorer, click the ArduCopter icon.



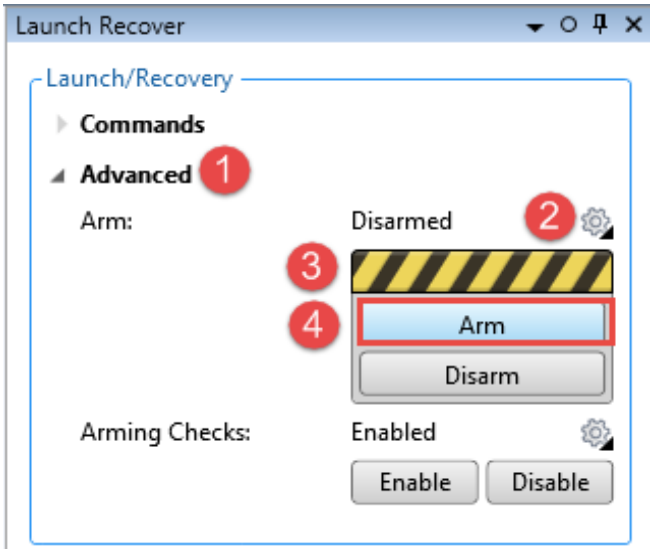
10. Under Vehicle Properties, **click the cog** to expand the options and then **click "Take"** to take control of the Arducopter.

11. **Click Mission Execution** Tab → **Launch Recover**



12. Test communication by starting the 3DR Solo's propellers. Perform the steps below from the **Launch Recover** pane:

1. **Expand Advanced**
2. **Click the cog** to expand the options
3. **Click yellow and black warning tape** to unlock
4. **Click Arm** to start propellers.



The propellers should begin to rotate, but will stop within seconds if no further commands are issued.

FLY SAFE!

Always adhere to all local and federal rules and regulations.

Find out current operating guidance for your location:

http://www.icao.int/safety/RPAS/Pages/UAS-Regulation-Portal.aspx

NEXT STEPS:

- Inexa Control Operator's Manual
- Unmanned Vehicle Plugin for Arducopter Guide
- Mission Planning Quick-Start Guide

WE'RE HERE TO HELP

Web Support:
https://insitu.com/support

Email Support:
missionsystemssupport@insitu.com

INSITU