

# SDA (Sensor Data Analysis) & Troubleshooting Device – USER GUIDE

1. Turn on the SDA unit (GUI unit) using the switch provided ( ‘o’ is for on; ‘-’ is for off) and ALWAYS wait for the GUI to initialize fully before clicking any button or plugging anything into it.
2. After verifying already present data using the given buttons or widgets, ideal procedure to turn off the SDA unit will be to go to ‘DEVELOPER OPTIONS’ and then either shut it down using the raspberry pi menu or type ‘sudo shutdown now’ in the terminal – this ensures a longer life of the unit without any errors; The unit CAN be shut down directly using the physical switch but over time we need to reset it by either rebooting the system (same procedure as above but ‘reboot’) or reflashing and reinstalling the system.
3. To view new data or transfer new data into the SDA unit always wait for GUI to initialize if turned on at that moment. Once initialized, plug in the card reader (or any USB drive) into the ports provided, any port is acceptable, ALWAYS make sure that the data is named as ‘data.txt’ and there are no other data.txt files present in the drive used.

**Please note that the previous data will be wiped out unless backed up using developer options.**

4. Once the drive is inserted, the system will prompt some windows (to open the drive) please IGNORE that and wait for reboot, the system will reboot in 3 to 5 seconds, UNPLUG the drive once reboot is initiated as it will be ejected automatically. The GUI will automatically run on startup and might take anywhere from 5-10 seconds. The new data will have overwritten the old data and be available for troubleshooting or display.
5. For any troubleshooting of the SDA unit or in case there is any issue with the program not running properly, the whole unit is present inside in the DRDO-GUI folder present in ‘/home/DRDO’ directory.

Note: If it does not turn on, remove the unit and check if the power-unit (power bank) is out of charge and charge it as and when required. Incase any other drive is inserted for any other purposes, the EJECT button in the GUI can be used for ejecting the drive as required,