

## Preparing a Windows 10/11 Computer for Occultation Recording

We use Windows 10 and 11 computers as automated, often unattended, recorders of occultation events. These computers are small, inexpensive machines only used for occultation recording. The following is a summary of a longer document available from [occultations.org/documents/Preparing Win10 and Win11 computers for occultation recording.pdf](https://occultations.org/documents/Preparing%20Win10%20and%20Win11%20computers%20for%20occultation%20recording.pdf)

Occultation recording computers must be isolated as much as possible from interruptions caused by other processes running on the same computer, particularly those requiring or originating from internet services. Interruptions or pauses during a recording can cause dropped frames or even a complete halt.

The instructions assume a new or re-originated computer, often filled with stubs and advertisements for software and services. Almost all are unnecessary, and most should be deleted. The detailed instructions provide suggestions on where they may lurk within the computer and how to remove or halt them.

A summary of the suggestions are as follows:

- Only one user, set up as the Administrator.
- Download software to be installed (IOTA Video capture, SVID2USB driver, lagarith). See the flyer on software for where to find these.
- Set the WiFi to airplane mode, turn off Bluetooth and never turn those back on
- Turn off any sharing, using, updating, notifications from the system, reduce how much assistance Cortana provides, remove all Apps, turn off all widgets, stop or remove OneDrive, reduce assistance from Cortana, remove adds or software stubs
- Set power options to never, off, never sleep, never hibernate, never need to re-sign in. The computer needs to operate until the user specifically turns it off, either manually or via software like IOTA Video Capture.
- Set laptops to continue running when the lid is closed.
- Turn off “set time automatically”. If you are using an external GPS time base for timing, like the IOTA VTI, the computer time only needs to be within a few seconds of the GPS at the time of automatic start of the recording and that can be done manually.

Install IOTA Video Capture, Lagarith compression, and the SVID2USB23 driver.

To set computers to bring up IOTA Video Capture on turn-on, not requiring login:

- Set the computer to log in with a password. Then run netplwiz under command prompt. In the netplwiz menu, check that the user is highlighted, then turn uncheck the “Users must enter a user name and password” at the top of the menu and click apply. Test that this works by rebooting the PC.
- Set IOTA Video Capture to start up at computer boot by moving a copy of the IOTA Video Capture icon to the following directory:

Users\