

Instructions for 2190E Recovery by USB Drive

When the 2190E startup fails or hangs on the startup screen and you are not able to clear it pressing the MATH button multiple times during power up, you can try recover the 2190E by following the steps below:

1. Prepare a 4GB or 8GB USB drive by formatting it using FAT32 (see instructions below).
2. From your PC copy these three recovery files to the root directory of the USB drive. Recovery files:
 - a. datafs
 - b. imgro_ulmage
 - c. rootfs.img
3. Remove the USB drive from your PC.
4. Insert the USB drive to the front USB Host Port on front of your 2190E.
5. Power on the 2190E and the recovery process will begin. It will take about three minutes to recover. Do not power off the 2190E during this process.
6. If you see the 2190E gets to the normal user interface, it means that the recovery was successfully.
7. If the recovery is successful, remove the USB drive.

Formatting USB

Be sure to back up any important data on the drive before formatting, as all data will be erased. To format a USB drive to FAT32, first connect the drive to your computer and then open File Explorer. Right-click on the drive and select "Format". In the Format window, choose FAT32 from the "File system" dropdown menu and then click "Start".