

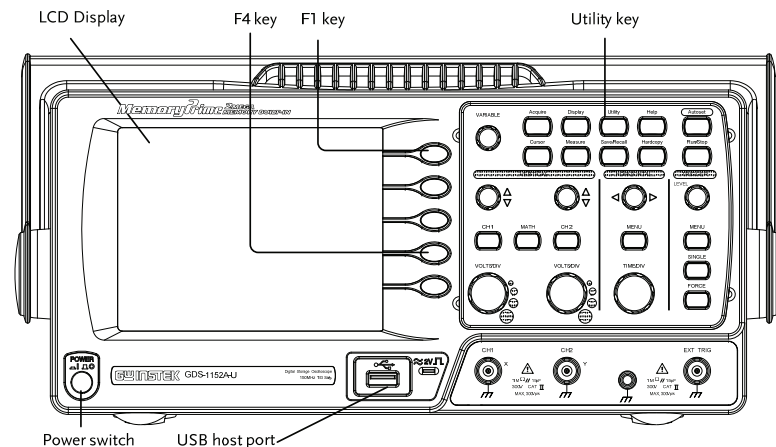
# How to Upgrade the Firmware

This application note describes how to manually upgrade the GDS-1000-U/GDS-1000A-U's firmware with a USB flash drive with maximum capacity of 16 GB and formatted to FAT32 format.

## Required equipments

|                 |                                                                                                                                        |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------|
| USB flash drive | A standard USB flash drive with the below firmware files copied into the root directory                                                |
| Firmware        | Three files are required: <ul style="list-style-type: none"> <li>• dso1kh.rom</li> <li>• dso1ks.rom</li> <li>• dso1kmon.rom</li> </ul> |

## Front panel overview with items related to the upgrade



## Procedure

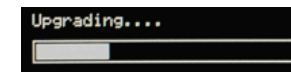
1. Inserting the USB flash drive into the USB host port  
Insert the USB flash drive including new firmware files into the GDS-1000-U/GDS-1000A-U's USB host port.
2. Turning the oscilloscope on  
Power the oscilloscope up and at the same time, press the F1 key several times. The oscilloscope should automatically boot in the firmware upgrade mode as in the snapshot below.



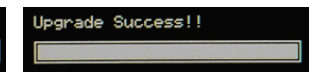
3. Upgrading the firmware  
Press the F4 key. The oscilloscope automatically starts upgrading the firmware.

When the status indicator at the bottom of the display shows the "Upgrade Success!!" message, upgrading the firmware is completed.

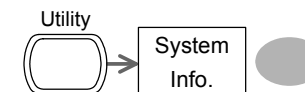
(ongoing)



(completed)



4. Confirming the upgrade  
Power the oscilloscope off and on to reboot the system. Open the system information by pressing the Utility key → System Info (F4).



Check the firmware version in the system information screen that it is being updated.

Updating the firmware is completed