

Prepare Desktop or Rackmount Computer (See Drivebay-USB_Receiver_Connection_Diagram.pdf)

Install USB Receiver Drivers (See Installing_USB_Receiver_Drivers.pdf)

Install NVG Ingest Software (DSIG) and Display Software (MEGAVIEW).

If you do not have an installation disk, you can download a full install of both from NVG web site (www.nvgweather.com). Then, download the latest update for both DSIG.exe and MEGAVIEW3.exe from the website. Replace the installed DSIG.exe file and MEGAVIEW3.exe file. Install other update files as directed on web site or by text file included with downloads.

Determine Satellite and Data Type based on your geographic location and data requirements. See: [Satellite_Choices.pdf](#) to determine satellite parameters.

Determine antenna pointing parameters. Use GEOAIM.EXE program (in NVG Programs with full install), you must know your location and the longitude of the desired satellite.

Set up Dish Antenna and Downconverter. Roughly point antenna toward desired satellite when it has been set up.

Connect Antenna Feed/Downconverter to Receiver Input 0 (connector on computer backpanel) (with 100 ft coaxial cable)

Start DSIG program in Idle/Safe Mode (bottom left button on DSIG startup window).

- On Setup Tab Page, pull up list for Receiver Type, click USB Receiver (do this even if already set to USB Receiver). The box below Receiver Type should turn green and read "Active"
- On Ingest Page, set input to "Input 0"
- On Ingest Page, set Power to Coax to "Yes"
- On Ingest Page, pull up list for Ingest Source Presets, click to match chosen satellite & data type (do this even if this already was the setting). The Signal Level number should now go from "0.0" to an actual reading. The number will depend on how well the antenna was roughly pointed.

Fine tune the antenna azimuth, elevation and polarization to maximize the signal strength reading. This can be done using a voltmeter connected to the Signal Level Connector on the computer back panel with a cable long enough to position the voltmeter at the antenna. This is an alternate to reading the signal level in the DSIG program window (do not worry about matching the number shown in the DSIG program - the two ways are not calibrated the same). With either way, the object is to maximize the voltage number.

Note that some satellites do not transmit continuously. Obviously, antenna pointing must be done when there is a valid signal. If fine tuning of antenna does not produce a peak in signal strength, the satellite may not be transmitting. Try again 15 or 30 minutes later. And again, and again... Check a transmission schedule if one is available.

When finished at the antenna, **verify that there is a good signal level shown on DSIG Ingest Page** (near 2.0 or above, the higher the better). The box under the Signal number should turn green and read "Locked" or "Locked + Viterbi Sync".

Set other parameters for DSIG program before starting ingest.

See: DSIG Guides for the particular Satellite and Data Type chosen.

For example: [GOES_GVAR_USB.pdf](#) or [MTSAT_LRIT_USB.pdf](#) or [MET5_PDUS_USB.PDF](#)

Start ingest by clicking on Start button on DSIG Ingest Page. DSIG settings will be saved when shutting down DSIG and thereafter ingest will start automatically when starting DSIG and clicking on "Last Settings" box.