

DSIG-5000 Quick Start

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)

(you must know your location and the longitude of the desired satellite).

Set up Tactical Dish Antenna

See: [Antenna_Assembly_Manual.pdf](#) for instructions

Roughly point antenna when it has been set up.

If desired satellite is Meteosat 5 or other older “wobbly” satellite you may need to re-aim antenna twice daily (see [Inclined_Orbit_Satellite_Tracking.pdf](#))

Refer to [Interconnect_Diagram.pdf](#) if necessary and do the following:

Connect Antenna Feed/Downconverter to Receiver Input 0 (100 ft coaxial cable)

Connect Computer to Receiver (USB 2.0 cable)

Connect Power to Receiver (brick type power adapter, cable plugs into back) (front panel should now be lit).

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. For the Tactical Dish Antenna, this can be done using the signal meter at the dish. The meter is an alternate, easier way of reading the signal level (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 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...

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”. Also check the bit error rate on the DSIG Info page (again the higher number, the better). Worse bit error numbers will cause images to be broken up.

Set other parameters for DSIG program before starting ingest.

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

For example: [GOES_GVAR_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.