



## Outdoor Transmitter Quick Start Guide

Congratulations on receiving your new Alga Microwave Block Upconverter Transmitter. Please review these notes during electrical setup to guarantee a trouble-free installation and many long years of service.

- Review signal levels going into the unit. A 10 MHz reference signal must be present on the input or the BUC will remain in a muted state. The level must be between **-5 dBm** and **+5 dBm**.
- Check the conversion gain on your unit by reviewing the bench test record supplied with it. Gain levels can approach **90 dB**, and an excessively high input level on your L Band signal can damage the unit and decrease its operating lifetime. Taking into example a 50 W unit (47 dBm), with 85 dB of conversion gain, means that we should not need more than -38 dBm of input signal ( $47 - 85 = -38$ ). For initial setup, it is recommended to start 10 dB lower than this point (-48 dBm in this example).
- **Always review** carefully the data on the supplied bench test record. It contains details on the power requirements, frequency translation, and Monitor and Control functions.
- The transmitter's output is taken from the waveguide port (RF Out). **Caution** should be observed here to make sure that the **antenna or a suitable termination** is connected to this port before operating the transmitter.
- **Ensure** there is proper clearance around the unit. A tight environment will restrict the airflow around the unit, and it may **overheat**.
- Make your input power connector using the furnished mating connector. **Review the power requirements** for your unit in the bench test record making careful note of the pinout and the minimum and maximum voltage limits.
- Connect AC Input power to the connector. The unit will be enabled almost immediately, provided it is not forced into a mute state (alarm condition).
- If there is no signal present, check the Monitor and Control interface for any alarm conditions. If you continue to experience difficulties in seeing a signal, contact the factory immediately.
- Optional - Connect the M & C interface to an available COM port on your computer and/or to your analog based monitoring and control equipment.
- Optional - Install the Windows based Monitor and Control Program from the supplied CD.
- Optional - Run the Alga Microwave Monitor and Control Program.