

**MOUNT SPECIFIC DATA**  
for  
**AVL Technologies**  
**Model 2020/2.4m Flyaway**  
**Fat Beam TLE – Multi-feed – GPS Heading**

Revision: 10 March 2011

This appendix describes RC4000 operations unique for several AVL mounts. These mounts are denoted as UF. Differences between these versions and the operation described in the “baseline” RC4000 manual are noted on a paragraph by paragraph basis.

### 1.1 Manual Organization

This appendix is provided as a supplement to the baseline RC4000 manual.

### 1.2 RC4000 Features

The features provided include:

- Automatic azimuth and elevation pointing solution calculation
- Automatic stow and satellite acquisition functions
- GPS receiver for determination of antenna latitude and longitude
- Automatic polarization control of rotating feeds
- FLASH based non-volatile memory for storing satellite locations and configuration data
- Continuous monitoring of antenna drive status
- 3 axes jog operation
- Simultaneous azimuth, elevation and polarization angle display
- Dual speed operation
- Dynamic braking and active IR compensation
- Support for multiple band satellite operations
- Integrated board set
- Fluxgate Compass Heading Sensor
- Remote control user interface

#### 3.3.1.3.1 Reset Defaults

The following table supplies the default configuration item values for this model of the RC4000. Most default values are the same for both versions.

Space has also been provided to record installation specific changes to the configuration items. Note: recording of installation specific changes to defaults may prove valuable when trying to restore system configuration.

CONFIGURATION ITEM	UF							INSTALL VALUE
<b>SYSTEM DEFINITION</b>								
GPS Present								
Compass Present								
Initial Mode								
Serial Number								
Antenna Size								
Waveguide Switch Present								
<b>AZIMUTH CALIBRATION</b>								
Reference Voltage								
Offset								
CCW Limit								
CW Limit								
Scale Factor								
Initial Display								
<b>ELEVATION CALIBRATION</b>								
Reference Voltage								
Offset								
Up Limit								
Down Limit								
Scale Factor								
Look Configuration								
<b>POLARIZATION CALIBRATION</b>								
Reference Voltage								
Offset								
CW Limit								
CCW Limit								
Scale Factor								
Type								
H/V Reference								
Band								
LNB LO Frequency								
Locate Automove								
<b>RF SIG FACTORS</b>								
Lock Type								
Delay Time								
<b>SS1 SIG FACTORS</b>								
Lock Type								
Delay Time								
Threshold								
Polarity								
<b>SS2 SIG FACTORS</b>								
Lock Type								
Delay Time								
Threshold								
Polarity								
<b>AUTOPEAK</b>								
Autopeak Enabled								
Signal Source								
Spiral Search AZ Limit								
Spiral Search EL Limit								
Spiral Search Signal Threshold								

Scan Range Limit								
Scan Signal Threshold								
Pol Tilt Compensation								
<b>AZIMUTH POT DRIVE</b>								
Fast/Slow Threshold								
Maximum Position Error								
Coast Threshold								
Maximum Try Count								
<b>AZIMUTH PULSE DRIVE</b>								
Pulse Scale Factor								
Divide Ratio								
CW Pulse Limit								
CCW Pulse Limit								
Fast/Slow Threshold								
Maximum Position Error								
Coast Threshold								
Maximum Try Count								
<b>AZIMUTH DRIVE PARAMETERS</b>								
Fast Voltage								
Slow Voltage								
Current Limit								
Acceleration								
Deceleration								
IR Compensation								
Jam Slop								
Runaway Slop								
Fast Deadband								
Slow Deadband								
<b>ELEVATION POT DRIVE</b>								
Fast/Slow Threshold								
Maximum Position Error								
Coast Threshold								
Maximum Try Count								
<b>ELEVATION PULSE DRIVE</b>								
Pulse Scale Factor								
Divide Ratio								
Up Pulse Limit								
Down Pulse Limit								
Fast/Slow Threshold								
Maximum Position Error								
Coast Threshold								
Maximum Try Count								
<b>ELEVATION DRIVE PARAMETERS</b>								
Fast Voltage								
Slow Voltage								
Current Limit								
Acceleration								
Deceleration								
IR Compensation								
Jam Slop								
Runaway Slop								
Fast Deadband								
Slow Deadband								
<b>POLARIZATION POT DRIVE</b>								

Fast/Slow Threshold								
Maximum Position Error								
Coast Threshold								
Maximum Try Count								
<b>POLARIZATION PULSE DRIVE</b>								
Pulse Scale Factor								
Divide Ratio								
CW Pulse Limit								
CCW Pulse Limit								
Fast/Slow Threshold								
Maximum Position Error								
Coast Threshold								
Maximum Try Count								
<b>POLARIZATION DRIVE PARAMETERS</b>								
Fast Voltage								
Slow Voltage								
Current Limit								
Acceleration								
Deceleration								
IR Compensation								
Jam Slop								
Runaway Slop								
Fast Deadband								
Slow Deadband								
<b>STOW / DEPLOY</b>								
Az Stow								
EI Stow								
Pol Stow								
Az Deploy								
EI Deploy								
Pol Deploy								
Pol Move								
Stow Timer								
<b>TRACK FACTORS</b>								
Search Width								
Maximum Error								
Peakup Holdoff Time								
Signal Source								
Sample Time								
Log Data								
Mode								
Az/EI Delta Factor								
<b>REMOTE CONTROL</b>								
Enabled								
Address								
Baud Rate								
Mode								
Jog Hold Value								