

Experimental License Application  
Cornell University Space Systems Design Studio  
Antenna Registration Question 4: Directional Antenna Information  
File Number 0395-EX-PL-2013  
Confirmation Number EL751960

The G-5500 rotator includes the rotator motors that the antenna is mounted on and the rotator switch box controller. The rotator turns the antenna towards the desired azimuth and elevation levels. The rotator control box has simple up/down and left/right switches for controlling the rotator and a simple analog read-out of the current antenna position. The analog read-out must be configured prior to use to ensure accurate read-outs. The configuration could be as simple turning the antenna rotator all the way to the left until it hits a hard stop, marking that as the zero point, and then turning the antenna in the other direction to mark the next hard stop as a 450° point. Similar steps can be achieved for configuring the elevation levels from 0° to 180°. Thus, the CUSat antenna is not held at a fixed angle.