

Emergency Stop

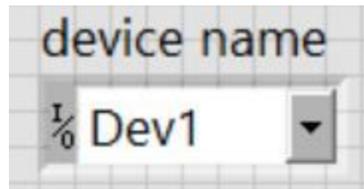
1. If anything goes wrong while the code is running, press the stop button shown below to immediately end the code. Setup will need to be gone through again to restart code.



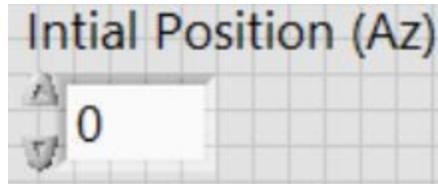
2. If the system tried to oscillate around a point, a relay reset will be required. This is done by removing the relay from the socket in the main control box and re-seating it back in.
3. This button will also stop the code safely if parking is not being used as well.

Setup

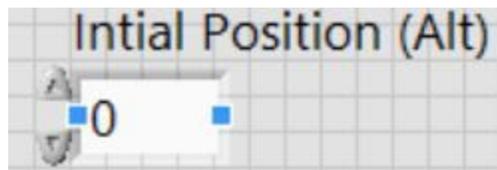
1. Align the center of the dome slit with the North label on the dome.
2. Flip the top switch on the Main control box to Auto
3. Open Labview File on desktop labeled Dome Controller
4. Ensure the device name is listed as shown below:



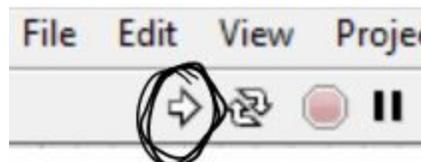
5. Set Initial Position of the Az to 0.



6. If the dome slit is already open, set initial position to 90. If it is closed, set to 0.



7. Run Labview code by pressing the arrow button in the upper left of the menu



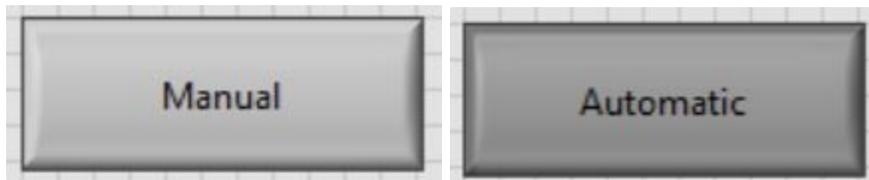
8. Enter RA/DEC coordinates of the target in the provided boxes. The UTC time and Date will automatically be retrieved from the computer. Hour Angle is calculated. Lat and Long should be set for the RIT dome (43.0845,-77.6764)

Enter RA and DEC Coordinates in J2000

RA	RA (Min)	RA (Sec)	Longitude (Degrees, East Positive)
0	0	0	-77.6764
Dec (Degrees)	Dec (Arcmin)	Dec (Arcsecond)	Latitude (Degrees)
0	0	0	43.0845
Time (UTC)	Date (UTC)	Hour Angle	
		0	

Automatic Mode

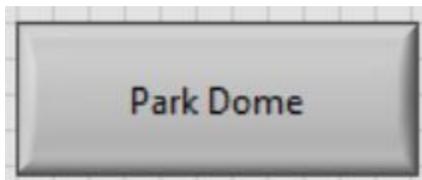
1. Enable Auto Mode



2. Once Automatic mode is enabled, the dome should track automatically

Parking

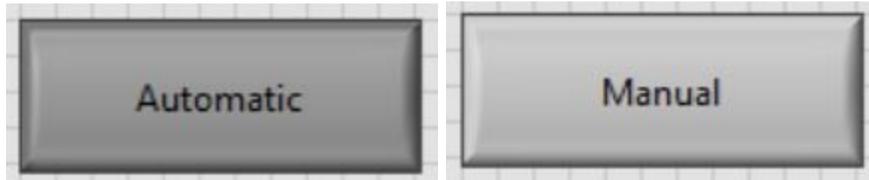
1. Parking of the dome can only occur while the code is in automatic mode
2. To park the dome, press the parking button



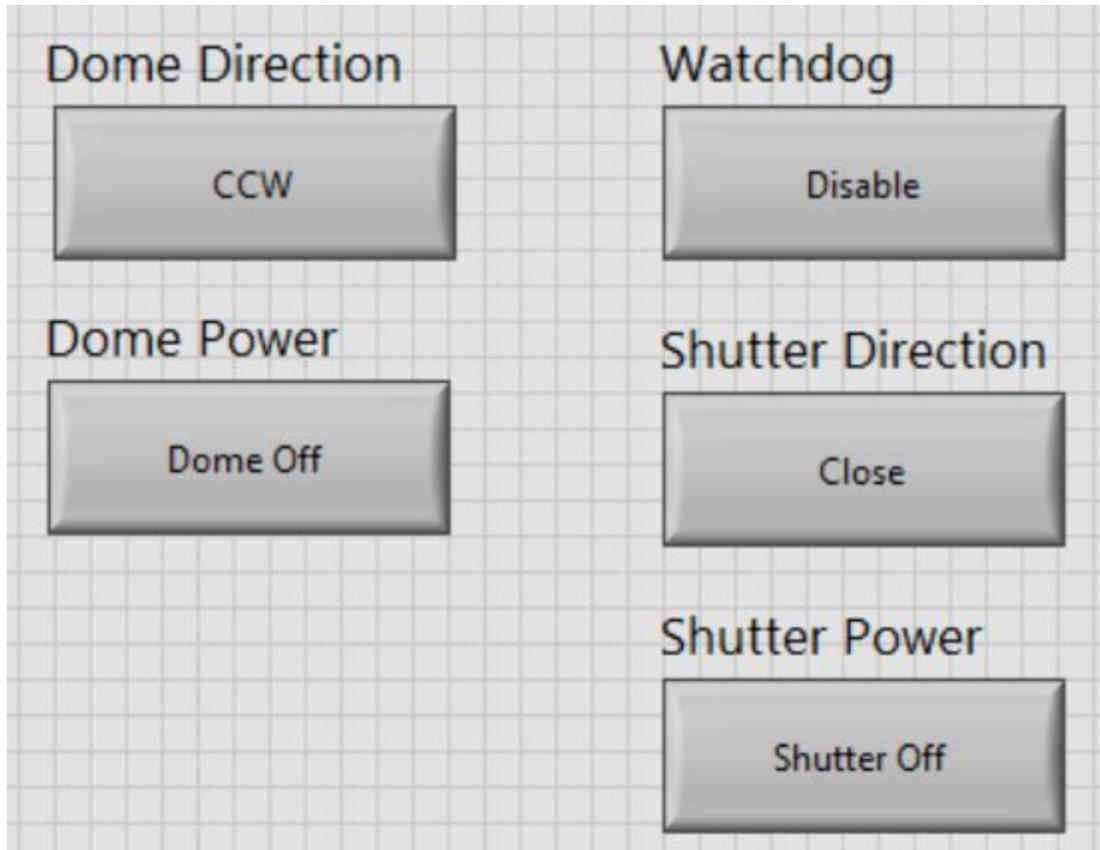
2. Once the dome is parked, the code will automatically shut off and reset all relays to off.
3. Once after system turns off, switch the main control switch back to manual

Manual Mode

1. Switch Mode to Manual Mode



2. Use toggle switches to control dome. To control the shutter, the Watchdog must be enabled. Power switches are required to be held for continuous operation.



Outputs

1. Whether in manual operation or automatic all position outputs will be displayed here:

