

## Gemini 2 Quick Start Guide

This guide will help you get started with your Gemini 2 Controller.

### Installing Gemini 2

Mount the Gemini 2 case to the tripod by bolting it to the two ears on the tripod.  
Use 1/4-20 T-Bolts

Connect the Motor cables using the 6 pin DIN Cables. Make sure you connect the RA motor (short cable) to the RA connector and the DEC motor (long cable) to the DEC connector on the Gemini 2 unit.

The Hand Controller will connect to the port HC

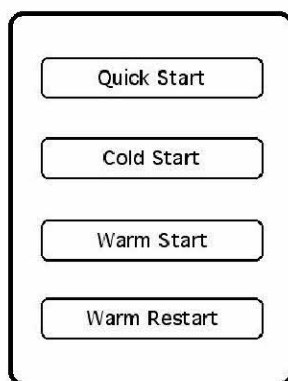
The power connection is on the right side of the Gemini 2.

\*\*When you are ready to use the Gemini 2; before you power on the Gemini 2 be sure the RA Axis is set to pointing at Polaris, your Telescope Optical tube is pointing to Polaris, and the Counter Weight Shaft is in the down position (CWD).

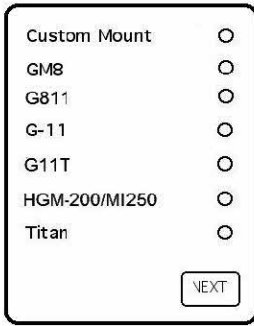
### Getting Started

After all the cables are connected, the mount, and the telescope optical tube is properly set, you can power ON the Gemini 2.

As the Gemini 2 boots up a blue screen will come on for a second. This is used if you need to recalibrate the touch screen. Calibration is set at the factory and most likely will be fine so you can let this screen pass by not touching the screen



1. When you get to this screen press Quick Start.  
(Cold Start will be used when you are starting up using the mount again but already have the location and time entered. For example you move the mount in doors and the next night you move it back out side. Alignment will need to be done again. Power ON Gemini 2 when the telescope is pointing at polaris and CWD.  
Warm Start will be used when your mount remains setup and parked but the wind might have caused the scope to move.  
Warm Restart will be used if you mount is in an observatory and was parked. )

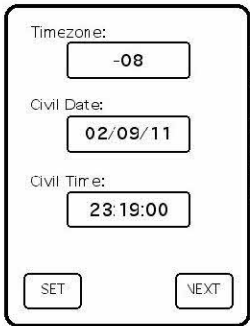
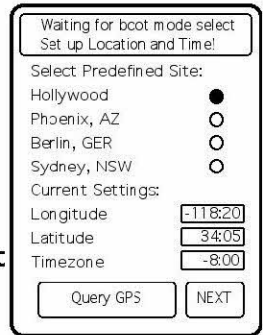


2. Select the Type of Mount

Press NEXT

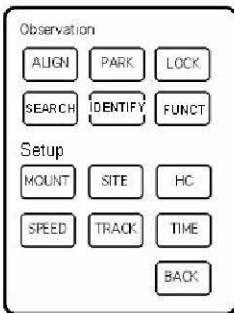
3. Enter Longitude and Latitude or press QUERY GPS when using a GPS device. Longitude will be negative in the Western Hemisphere. Long and Lat is in **Degrees** not Decimal. Manually enter Time Zone of your location taking into account if it is daylight savings time or not.

Press NEXT



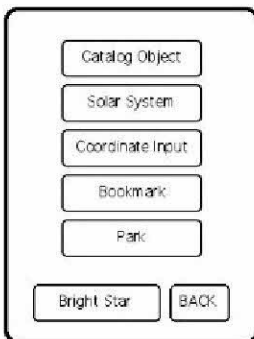
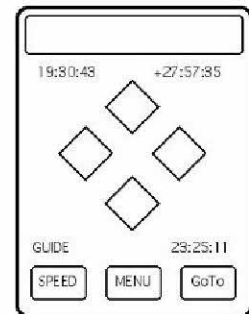
4. Enter Date & Time – Date in format **MM/DD/YY** and Time in **Military** format. When Date and Time is correct - Press **SET** then Press NEXT

5. From this screen Press the Back Button.



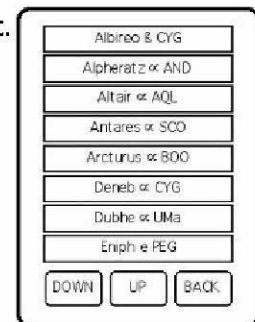
6. Press the Back Button

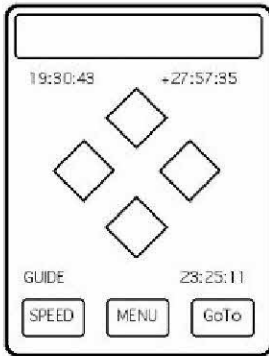
7. This is the Main Screen Press the GoTo button



8. Press the Bright Star Button

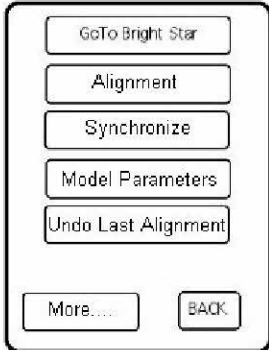
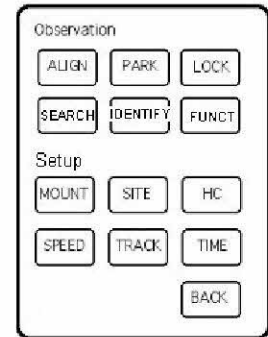
9. Select a object from the list. Once you select the object the mount will slew to the object. The Screen will change to the Home Screen when the mount is done slewing to the object.



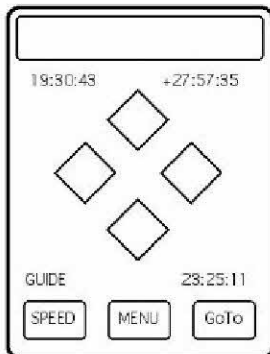


10. From this screen use the directional buttons to center the object. Once the object is centered press the MENU button.

11. From this screen press Align.



12. From this screen press Alignment.



After you press Alignment you will be brought back to the Main Screen. Your Gemini 2 is now ready for an evening of viewing.

A one star alignment has been added into the database for improved GoTo Accuracy.

From here you can use the GoTo button to get a selection of objects for viewing. The SPEED button will change the rate of speed of the motors when depressing one of the directional buttons. MENU will bring up a menu of tasks that can be preformed from the Hand Controller.

As you use the GoTo function to move to different objects and find the objects are not within the telescope view you can quickly do an on the fly alignment. At any object that you have slewed to use the directional buttons to center the object. Then press MENU, then ALIGN, then Alignment. This will add to the correction database and increase the accuracy of your next GoTo.

With the Gemini 2 you will never "push" the mount to an object you will always use the motors. That is how the Gemini knows its location. But if you should accidentally move the mount without the motors you can easily correct the problem and allow the Gemini 2 to learn its new location. Observe a known object in the sky. Bring up the Catalog of Objects and GoTo that object. When the mount finishes slewing to the object then use the directional buttons to bring the object into the center of view. Now all you need to do is press MENU then ALIGN then Synchronize. Now your mount and Gemini 2 are back in Sync.