Gemini 2 Quick Start Guide

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

This guide is also available as a downloadable PDF you can save and use, and you can click on the document links: http://www.losmandy.com/files/gemini/gemini2_quickstart.pdf

Please Visit our YouTube Channel and Setup Videos

Please also see our YouTube playlist on setting up your new Losmandy mount including Gemini

https://www.youtube.com/playlist?list=PLeM-apAbabi33UIBYaF05rvBbmZQ8rYBR

Or scan this QR Code with your mobile device:

Losmandy has produced a lot of great YouTube videos on many topics, we encourage you to visit your YouTube channel and subscribe to it (and hit the notify "bell" to be alerted when we post future videos)

Losmandy YouTube channel: https://www.youtube.com/losmandy

Installing Gemini 2

Mount the Gemini 2 to the tripod by bolting it to the two ears on the tripod using the supplied thumbscrews

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.

Connect the Hand Controller to the port labeled HC

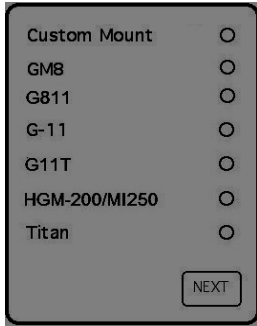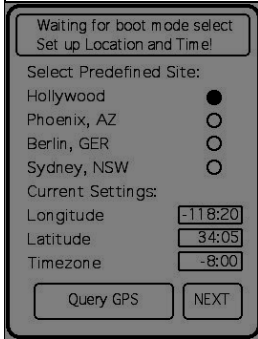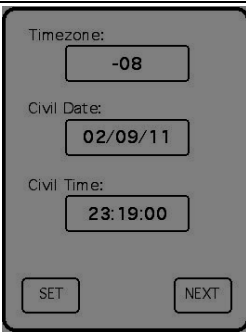The power connection is on the right side of the Gemini 2. Power takes 12-18v DC min 2amp

**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 (This is known as counterweight down position, starting position, and also CWD).

Getting Started

After all the cables are connected, the mount and the telescope optical tube is properly set at counterweight down (CWD) position, you can power ON the Gemini 2.

As the Gemini 2 boots up a blue screen will come on for a second. Use this ONLY 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.

NOTE: there is a dedicated video to setting up your Gemini for the very first time here: https://www.youtube.com/watch?v=hoba3nVv0AM)

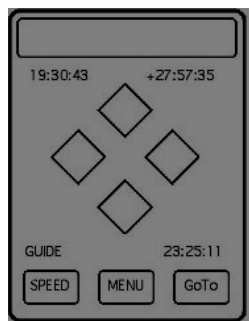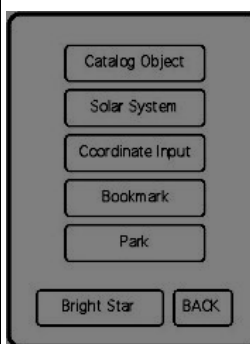|			
Quick Start Cold Start Warm Start Warm Restart	1. When you get to this screen press Quick Start. (Cold Start will be used when you are starting up using the mount again but already have the location and time entered. For example you move the mount in doors and the next night you move it back outside. Alignment will need to be done again. Power ON Gemini 2 when the telescope is pointing at Polaris and CWD.	Custom Mount ○ GM8 ○ G811 ○ G-11 ○ G11T ○ HGM-200/MI250 ○ Titan ○ NEXT	2. Select your appropriate Mount Type (G11, GM811, etc.) Press NEXT
Waiting for boot mode select Set up Location and Time! Select Predefined Site: Hollywood ● Phoenix, AZ ○ Berlin, GER ○ Sydney, NSW ○ Current Settings: Longitude -118:20 Latitude 34:05 Timezone -8:00 Query GPS NEXT	3. Enter your location Longitude and Latitude. Longitude will be negative in the Western Hemisphere. **Long and Lat is in HH:MM format, not Decimal**. Enter Time Zone of your location taking into account any daylight savings time. If you have a Losmandy GPS, it should be plugged in to serial/GPS port. Wait until the GPS is blinking (showing GPS lock), then press QUERY GPS: the location will be automatically filled in. With GPS you still need to enter your timezone Press NEXT	Timezone: -08 Civil Date: 02/09/11 Civil Time: 23:19:00 SET NEXT	4. Enter Date & Time – Date in format **MM/DD/YY** and Time in **Military** (24 hour) format. When Date and Time is correct - Press **SET** then Press NEXT
PLEASE NOTE: there is an excellent online tool that gives you accurate and correctly formatted location, date, and time information for programming your Gemini, it can be found here: https://gemini-2.com/lat_long_from_address.html			

Need help aligning the mount? **Polar Align Assist** Assistence building a model? **Modeling** Tour a catalogue? **Catalog Tour** Back	5. From this screen Press the Back Button.
Observation ALIGN PARK LOCK SEARCH IDENTIFY FUNCT Setup MOUNT SITE HC SPEED TRACK TIME BACK	6. Press the Back Button

19:30:43 +27:57:35 GUIDE 23:25:11 SPEED MENU GoTo	7. This is the **Main Screen** Press the GoTo button
Catalog Object Solar System Coordinate Input Bookmark Park Bright Star BACK	8. Press the Bright Star Button
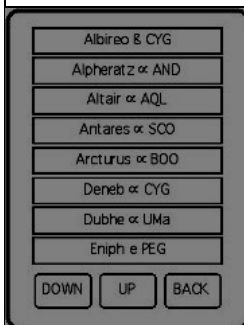
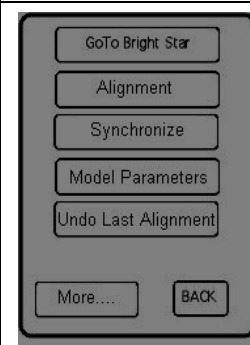|	
Albireo ß CYG Alpheratz ∝ AND Altair ∝ AQL Antares ∝ SCO Arcturus ∝ BOO Deneb ∝ CYG Dubhe ∝ UMa Eniph e PEG DOWN UP BACK	9. Select a object from the list. Once you select the object the mount will slew to the object. The Screen will change to the Home Screen when the mount is done slewing to the object.
19:30:43 +27:57:35 GUIDE 23:25:11 SPEED MENU GoTo	10. From this screen use the directional buttons to center the object. Once the object is centered press the MENU button.
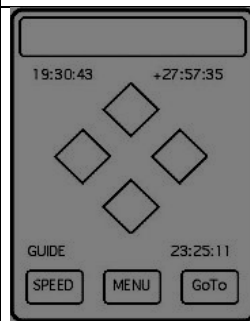
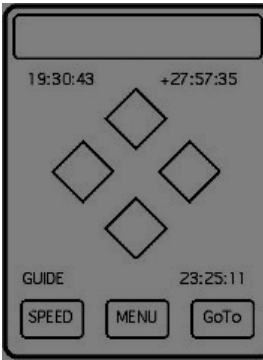|	
Observation ALIGN PARK LOCK SEARCH IDENTIFY FUNCT Setup MOUNT SITE HC SPEED TRACK TIME BACK	11. From this screen press Align.
GoTo Bright Star Alignment Synchronize Model Parameters Undo Last Alignment More.... BACK	12. From this screen press Alignment. A one star alignment has been added into the database for improved GoTo Accuracy.

19:30:43 +27:57:35 ◇ ◇ ◇ ◇ GUIDE 23:25:11 [SPEED] [MENU] [GoTo]	After you press Alignment you will be brought back to the Main Screen. Your Gemini 2 is now ready for an evening of observing.	

From here you can use the GoTo button to get a selection of other objects for observing. 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 functions that can be performed 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.