

CTMO

Ninnion: The Observer's Operation  
Manual



---

# Contents

---

1	Start up Observatory	5
2	Shutdown Observatory	7



# CHAPTER 1

---

## Start up Observatory

---

1. Turn on all breakers
2. Open shutter window
  - (a) Remove charger from power source
  - (b) Remove charger from battery. First Red (+) then Black (-)
  - (c) Connect Black motor cable to Black (-) on battery
  - (d) Connect Red motor cable to Red (+) on battery
  - (e) Press and hold OPEN on the shutter controller
3. Open shutter door. Undo rope and let down the shutter door
4. Turn on UPS
5. Turn on Computer
  - (a) Make sure to wait at the monitor to change boot order on grub.
6. Remove mirror shields
  - (a) Slide the light shroud up toward the front of the scope
  - (b) Remove cloth cover on secondary mirror
  - (c) Remove plastic shower cap
  - (d) Remove round plastic lid from primary
  - (e) Cover telescope with light shroud
7. Turn on Mount
  - (a) make brakes are off

8. Open PWI3
  - (a) verify the focuser established connection
9. Open PWI4
10. On PWI4:
  - (a) click: Enable DEC
  - (b) click: Enable RA
  - (c) click: Commands ↵ Home mount
11. You are ready to observe!

## CHAPTER 2

---

# Shutdown Observatory

---

1. TBD