

Opening Checklist

1. **Open the upper shutter.** Plug in the cable, push the mechanical interlock to the left, flip the **switch** left, then wait for the shutter to fully open. Unplug the cable.
 2. If necessary, **open the lower shutter** using the hand crank.
 3. Remove the canvas dust cover from the telescope and place it on the blue and yellow cart.
 4. Standing at the back of the telescope, move the telescope $\sim 90^\circ$ to the left (West) by unlocking the **small textured knob** (the **Hour Angle clamp**). Re-lock the **HA clamp**. Unlock the **small smooth knob** (the **Dec clamp**), lower the telescope to just past horizontal, and remove the lens dust caps; place them on top of the canvas cover or the cabinet.
 5. Rotate the telescope in Declination so it is pointing roughly South; ensure both **clamp knobs** are locked.
 6. **Turn on the drive** inside the **door at the base of the pier.**
 7. If desired, align the telescope coordinates to a bright star using the dial on the front of the pier.
 8. You are ready to observe!
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Basic Operation

- ◆ Use the **small knobs** (**HA** and **Dec clamps**) to allow movement of the telescope in **HA** and **Dec**. Only unlock one clamp at a time to prevent unexpected movement.
 - ◆ Align naked eye visible and landmark navigable targets using the crosshairs in the finder scope.
 - ◆ Use the larger knobs to finely adjust the telescope pointing in **HA** or **Dec**. If you need to move more than a field-of-view, move the telescope!
 - ◆ **Rotate the shutter** with the **switch** on the East side of the dome.
 - ◆ Focus using the focus knobs.
 - ◆ A right angle eyepiece mount, eyepieces, camera adapters, and accessories are in the cabinet.
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Easily Identifiable Bright Stars

Star	Mag.	RA	Dec
Sirius	-1.46	06 ^h 45 ^m 09 ^s	-16° 42' 58"
Arcturus	-0.04	14 ^h 15 ^m 40 ^s	+19° 10' 57"
Vega	0.03	18 ^h 36 ^m 56 ^s	+38° 47' 01"
Rigel	0.12	05 ^h 14 ^m 32 ^s	-08° 12' 06"
Betelgeuse	0.50	05 ^h 55 ^m 10 ^s	+07° 24' 25"
Altair	0.77	19 ^h 50 ^m 47 ^s	+08° 52' 06"
Aldebaran	0.85	04 ^h 35 ^m 55 ^s	+16° 30' 33"
Spica	0.98	13 ^h 25 ^m 12 ^s	-11° 09' 41"
Deneb	1.25	20 ^h 41 ^m 26 ^s	+45° 16' 49"
Regulus	1.35	10 ^h 08 ^m 22 ^s	+11° 58' 02"

Closing Checklist*

1. **Turn off the drive** inside the **door at the base of the pier.**
 2. **Rotate the dome** so that it points towards the south-east.
 3. **Close the lower shutter** using the **hand crank.**
 4. **Close the upper shutter.** Plug in the cable, push the mechanical interlock to the right, flip the **switch** right, wait for the shutter to fully close, then **unplug the cable.**
 5. Put the lens dust caps on the main and finder telescopes.
 6. Move the telescope so it sits above the pier pointing North. The dial on the pier should be horizontal, and the declination setting circle should indicate $+90^\circ$.
 7. Cover the telescope with the canvas dust cover.
 8. Fill out the observing log, which will be on the cabinet.
 9. If you used it, replace the flat flooring piece at the door with the ramp piece.
 10. **Check that the motor drive is off.**
 11. **Turn the lights fully off.**
 12. **Ensure the door is locked.**
 13. **Return the key to the Astronomy department.**
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**emergency closing procedure in bold
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