

MANUAL VISUAL OBSERVING

Just looking...

Dome & Shutter Control

- ▣ Access the observatory – remember the dome and shutter are active 24/7
- ▣ The observatory should be in the **Park** State:
 - Both Shutters **Closed**
 - Dome at the **Home** position facing North (above North Work Bay)
- ▣ Shutter movement extent is controlled by limit switches – hold the **Open/Close** switch until all movement stops for fully open. Stop any time for a partial opening.
- ▣ Dome rotation will be interrupted at the **Home** position when rotating **Left**. Select **Left** again to continue to the **Left**. Dome rotation will continue past **Home** when moving to the **Right**.

Startup & Initialisation

- ▣ Startup:
 - Switch **ON** CEM120 DC power: DC Control Hub – **CEM120** switch **ON**
 - Wait for 8410 Hand Controller to indicate **GPS Ok**
- ▣ Initialisation:
 - If the mount has not been disturbed or adjusted since its last setup and alignment, no further initialisation is required before observing can commence. GoTo operations should place the target well within the field of view. Tracking should be very accurate.
 - If GoTo operations are inaccurate then use the direction arrows on the hand controller to manually control the telescope pointing for your observing session. Report the issue to the observatory managers. Please do not try and fix the issue yourself.

Wide Field Observing

- Baseline Esprit 100mm configuration:
 - Field flattener not installed
 - 2" diagonal installed
 - 2" to 1.25" adapter fitted
 - 1.25" cover fitted
 - Objective cover fitted
 - Finder covers (2) fitted
 - Available eyepieces & accessories racked in their storage location.
- Reconfigure as needed for your observations
- Re-establish the baseline configuration..

Narrow Field Observing

- Ancillary equipment power up & initialisation
- Baseline RC-14A configuration:
 - Motorised focuser installed
 - Rotator installed
 - ZWO ASI 183MC camera installed
 - Primary mirror cover **On**
 - Secondary mirror cover **On**
 - Available eyepieces & accessories racked in their storage location.
- Reconfigure as needed for your observations
- Re-establish the baseline configuration..
- Ancillary equipment shutdown & power down

Shutdown

- ▣ Shutdown CEM120:
 - **Park** CEM120
 - Wait for 8410 Hand Controller to indicate it is **Ok** to power down.
 - Switch **OFF** CEM120 DC power: DC Control Hub – **CEM120** switch **OFF**
- ▣ Return the dome to its Baseline configuration of the **Park** State:
 - Both Shutters **Closed**
 - Dome at the **Home** position facing North (above North Work Bay)
- ▣ If not yet done - reconfigure the OTAs to their Baseline configurations.
- ▣ Exit & secure the observatory – Remember keys in hand **before** locking anything!

Startup & Shutdown - Manual Visual Activities

- ▣ Startup:
 - DC Control Hub CEM120 Switch **ON**
 - If required, energise ancillary equipment
- ▣ Shutdown:
 - **Park** CEM120,
 - If used, de-energise ancillary equipment
 - DC Control Hub CEM120 Switch **OFF**
 - **Park** the observatory