

SFSU eShel Spectrograph at Leuschner (SeSaL) Operational Instructions – Quick Start

Revision 6-17-2023a

Beginning of Night Procedure:

LOG in to NoMachine

1. Connect to Leuschner Spectrograph Server
2. Log in to SFSU Exoplanets NUC, if needed
User: [See Admin] Pswd: [See Admin]
3. Start TEMPPers – YES
4. Open CHROME web browser
Go to 192.168.1.215 – DLL Controller
Log in – User: Talon Pswd (see admin)
Switch on 4 devices: CCD Camera, ThAr Power, Calibration Unit, USB Power
Logout or minimize window
5. Open ASI Studio
Select ASI Cap
Set up ZWO guide camera for exposure time and gain

OPEN DEMETRA

- a. Configure Acquisition Camera
ASCOT -> Atik 460 EX
Configure Atik 460 EX -> temp: -0.5 C. -> Horizontal -> Set/Activate
- b. Select Calibration Unit -> activate
- c. Open Manage Observations window
 - 1) Select new Folder
 - 2) Add New Observation
 - a) Name the target – format no spaces
 - b) Check/Edit COMMENTS
 - c) Check Instruments

BEGIN OBSERVATIONS

DEMETRA:

1. Take Calibration images
 - 5 bias x 0 s
 - 5 flats x 30 s
 - 5 Calibration (ThAr) x 90 s
 - 5 Darks x 600s

ZWO Guide Camera:

Center star on fiber hole in FOV with xObservatory Paddle – Fine Scope

Clicks: N = left S = Right W = Up E = Down

Adjust exposure and Gain to minimize saturation and focus

DEMETRA:

2. Manage Observations: Images -> Acquire Object
3. Take Spectra: Check source and
Enter exposure time x 5 -> START

ZWO Guide Camera: Monitor tracking of star during exposure

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End of Night Procedure:

Close ASI – ZWO Guide Camera

DEMETERA: Data Reduction – complete or trouble shoot

Open CHROME – Switch OFF 4 devices -> Logout

Close CHROME

Close TEMPpers – log last temperature reading

DEMETERA – Check output plots and results – export fits files, take screenshots of results, if time permits.

Close DEMETERA

Close NoMachine

Transfer DATA

NoMachine – Drag and Drop individual files from Spectrograph server onto local NoMachine desktop – [compress folders into a single .zip file to drag]

OR

TeamViewer (on local computer)

- Log in to SFSU Spectrograph with password -> Transfer Files – connect
- Select folders, Transfer files, then end TeamViewer session.