QWSSI / DSSI / Speckle

Quick Links

- LDT Observer Information Home
- Instrumentation
- Applying for Observing Time
- Observing Run Planning
- At the Telescope (Printable Logsheets)
- After Your Observing Run
- First-Time Users
- Logistics
- LDT Important Notes

Facility

- LDT Science Schedule
- LDT Staff
- Telescope
- Site Information
- Weather
- Acknowledging LDT
- Selected Technical Publications

Instruments

- Instrumentation Main Page

Facility Instruments:

- Large Monolithic Imager (LMI)
- DeVeny Optical Spectrograph
- NIR Spectrograph (NIHTS)

Visitor / PI Instruments:

- High-Res Spectrograph (EXPRES)
- Speckle Imager (QWSSI)
- High Speed Imager (POETS)
- NIR Spectrograph (RIMAS)

User Manuals:

- LMI Manual
- DeVeny Manual
- NIHTS Manual

Observing Planning

- Applying for Observing Time
- Planning Checklist
- Remote Observing
- Target Lists
- First-Time Users
- Logistics

At the Telescope

- Observing Quick Links
- Remote Observing
- LDT Startup Procedures
- Closure Conditions
- Night Feedback Form
- End of Night Tasks

~~~ PHOTOS HERE ~~~

Visitor Instrument – Availability Depending on Status, User Demand, and Port Availability

Mounting Port: Instrument Cube – Port A (large)

Manual: See the DSSI Page at Gemini-N for information

Additional Information: QWSSI SPIE paper (2020.SPIE.11446.2AC.QWSSI.pdf)

Instrument Scientist: Gerard van Belle (gerard at lowell dot edu)

The Quad-camera, Wave-front-sensing, Six-wavelength-channel Speckle Interferometer (QWSSI) went through on-sky commissioning and initial science runs on the LDT during 2020B. Information about instrument capabilities and performance will be forthcoming shortly. QWSSI is expected to be the default speckle camera.

Instrument Quick Facts:

Current Status:

All visible channels (577, 658, 808, 880nm; 40nm bandwidth) are operational. Near-IR channels (1200, 1500nm; 50nm bandwidth) still under development. Wavefront sensor (all visible light excepting the speckle channels) is operational, but data reduction pipeline does not yet currently fold this data into the data reduction.
~~~