

such as sunspots and solar eruptions.

THEMIS main characteristics are the followings: Observational spectral coverage: 400-1100 nm. Imaging field-of-view: $\sim 2'x2'$; square shaped. Overall focal ratio: f/62. Effective aperture: 92 cm. Effective focal length: ~57m.

High-resolution THEMIS Observation of Solar Sunspots

images have been captured in the white-light red continuum (~10 nm passband centered at 656 nm). The image resolution of ~0.17", close to THEMIS diffraction limits (~0.15"), is enabled thanks to the use of THEMIS adaptive optics.





cooler, emit less light. They thus appears darker than the quiet solar surface. Unlike sunspot, the quiet sun regions are dominated by the granulation pattern. **Granules** are the convection cells in the Sun's photosphere. They are caused by currents of plasma in the Sun's convective zone, directly below the photosphere.









