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THE JWST FINE GUIDANCE SENSOR (FGS) AND NEAR-INFRARED IMAGER AND SLITLESS SPECTROGRAPH (NIRISS)

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The Fine Guidance Sensor (FGS) is one of the four science instruments of the James Webb Space Telescope (JWST). Provided by the Canadian Space Agency, FGS features two modules, an infrared camera dedicated to target acquisition and fine guiding, and a science instrument, the Near-Infrared Imager and Slitless Spectrograph (NIRISS). Covering the wavelength range from 0.6 to 5.0 μm with a field of view of $2.2' \times 2.2'$, NIRISS has four observing modes, designed for a wide variety of science programs, from the study of the early universe to the detection and characterization of exoplanets. FGS/NIRISS is currently under final integration and slated for delivery to NASA this summer. This paper will present an overview of the scientific capabilities and expected performance of FGS and NIRISS.