

Tanager Methane Performance Specifications

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Tanager performance specifications (final operational orbit)

Swath width	18.6-24.2 meters (varies with look angle)
Ground Sample Distance (GSD)	30-43 meters (varies with look angle)
CH4/CO2 image product pixel size	30 meters (resampled for all scenes)
Plume geolocation accuracy (CE90)	50 meters
Spectral response (FWHM)	5.5 nm
Spectral sampling	5 nm
Spectral range	400-2500 nm
Signal-to-noise @ 2200 nm	310 – 655 (varies with imaging mode)
CH4 90% Probability of Detection	90-180 kg/hr* (varies with imaging mode)

*3 m/s wind, 35 deg Solar Zenith Angle, 25% albedo, 30 m GSD