

## **In-Flight Performance of the Infrared Array Camera (IRAC) for the Spitzer Space Telescope**

Fazio, G. G.; Hora, J. L.; Allen, L. E.; Ashby, M. L. N.; Barmby, P.; Deutsch, L. K.; Huang, J.-S.; Marengo, M.; Megeath, S. T.; Pahre, M. A.; Patten, B. M.; Wang, Z.; Willner, S. P.; Hoffmann, W. F.; Moseley, S. H.; Arendt, R. G.; Mentzell, J. E.; Trout-Marx, C.; Eisenhardt, E.; Stern, D.; Gorjian, V.; Bhattacharya, B.; Carey, S.; Glaccum, W. J.; Lacy, M.; Lowrance, P. J.; Laine, S.; Nelson, B. O.; Reach, W. T.; Stauffer, J. R.; Surace, J. A.; Wilson, G.; Pipher, J. L.; Forrest, W. J.; McMurty, C. W.; McCreight, C. R.; McKelvey, M. E.; McMurray, R. E.

### *Abstract*

The Infrared Array Camera (IRAC) is one of three focal plane instruments in the Spitzer Space Telescope. IRAC is a four-channel camera that obtains simultaneous images at 3.6, 4.5, 5.8, and 8.0 microns. Two adjacent 5.2x5.2 arcmin fields of view in the focal plane are viewed by the four channels in pairs (3.6 and 5.8 microns; 4.5 and 8 microns). All four detector arrays in the camera are 256x256 pixels in size, with the two shorter wavelength channels using InSb and the two longer wavelength channels using Si:As IBC detectors. We describe the performance of the instrument after launch during the In-Orbit Checkout (IOC), Science Verification (SV) period, and normal operations. IRAC was developed under JPL Contract #960541.