

JPL RFI MJ-14-01 for Science Camera

Attachment 1 – Specifications and Performance Requirements

| Specifications and Performance Requirements | | |
|---|--|--|
| 1 | Dimensions | Volume ≤ 0.5 liter, Longest dimension < 13 cm |
| 2 | Mass | ≤ 0.5 kg, incl. electronics |
| 3 | Power | ≤ 3 W |
| 4 | Design life | Nominal 5 years |
| 5 | SNR for a 5 mag star (g band) in 0.5 sec | 10 |
| 6 | IFOV | < 0.2 mrad |
| 7 | FOV | $\geq 15 \times 15$ sq.deg. |
| 8 | Wavelength range | 400-900 nm |
| 9 | Number of filter channels | ≥ 4 , including one between 800-900 nm |
| 10 | Channel bandwidth | ≤ 40 nm |
| 11 | Frame rates (full frame) | ≥ 3 fps |
| 12 | Windowing | Yes |
| 13 | Digitization | 10 bits/px |