

2021 年国产陆地观测卫星外场绝对辐射定标系数

| 载荷 | PAN (Gain) | B1 (Gain) | B2 (Gain) | B3 (Gain) | B4 (Gain) |
|-----------|---------------|--------------|--------------|--------------|--------------|
| HJ1A_CCD2 | / | 1.4432 | 1.5411 | 0.9667 | 0.8617 |
| HJ2A_CCD1 | 0.0706 | 0.0591 | 0.0508 | 0.0534 | 0.0667 |
| HJ2A_CCD3 | 0.0643 | 0.0554 | 0.0499 | 0.0567 | 0.0532 |
| HJ2A_CCD4 | 0.0634 | 0.0547 | 0.0491 | 0.0567 | 0.0522 |
| HJ2B_CCD1 | 0.0614 | 0.0529 | 0.0460 | 0.0487 | 0.0473 |
| HJ2B_CCD2 | 0.0666 | 0.0576 | 0.0502 | 0.0541 | 0.0519 |
| HJ2B_CCD3 | 0.0630 | 0.0565 | 0.0502 | 0.0549 | 0.0521 |
| GF1_PMS2 | 0.1481 | 0.1541 | 0.1394 | 0.1407 | 0.1308 |
| GF1_WFV1 | / | 0.1722 | 0.1496 | 0.1227 | 0.1262 |
| GF1_WFV2 | / | 0.1792 | 0.1534 | 0.1232 | 0.1291 |
| GF1_WFV3 | / | 0.2044 | 0.1844 | 0.1429 | 0.1453 |
| GF1_WFV4 | / | 0.2102 | 0.1808 | 0.1442 | 0.1362 |
| GF1B_PMS | 0.0713 | 0.0730 | 0.0619 | 0.0562 | 0.0594 |
| GF1C_PMS | 0.0681 | 0.0648 | 0.0599 | 0.0532 | 0.0566 |
| GF1D_PMS | 0.0702 | 0.0694 | 0.0624 | 0.0573 | 0.0571 |
| GF2_PMS1 | 0.1884 | 0.1374 | 0.1784 | 0.1723 | 0.1894 |
| GF2_PMS2 | 0.1959 | 0.1641 | 0.1830 | 0.1705 | 0.1878 |
| CB04A_WPM | 0.1705 | 0.2215 | 0.2015 | 0.1540 | 0.1721 |
| CB04A_MUX | / | 0.9566 | 1.0488 | 1.0459 | 0.8617 |

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|------------------------|--------|--------|--------|--------|--------|
| CB04A_WFI | / | 0.2395 | 0.2599 | 0.2485 | 0.1832 |
| ZY02C_PMS | 0.7105 | 0.7472 | 0.7352 | 0.6887 | / |
| ZY-1 02D(PAN、B1-B4) | 0.0634 | 0.0714 | 0.0555 | 0.0464 | 0.0511 |
| ZY-1 02D(B5-B8) | / | 0.0653 | 0.0504 | 0.0541 | 0.0305 |
| ZY-3 02 | 0.2116 | 0.1889 | 0.2065 | 0.2218 | 0.1883 |
| GF4_PMS(2,6,4,6,6) | 0.5441 | 0.9767 | 1.0453 | 0.834 | 0.5966 |
| GF4_PMS(4,16,12,16,16) | 0.3366 | 0.3728 | 0.3898 | 0.3399 | 0.2456 |
| GF4_PMS(6,20,16,20,20) | 0.1753 | 0.3525 | 0.276 | 0.3067 | 0.2158 |
| GF4_PMS(6,40,30,40,40) | 0.1746 | 0.1383 | 0.1325 | 0.1229 | 0.086 |
| GF4_PMS(8,30,20,30,30) | 0.1291 | 0.1843 | 0.2041 | 0.1625 | 0.1144 |
| GF6_PMS | 0.0577 | 0.0821 | 0.0671 | 0.0518 | 0.031 |
| GF6_WFV(B1-B4) | / | 0.0633 | 0.0532 | 0.0508 | 0.0325 |
| GF6_WFV(B5-B8) | / | 0.0523 | 0.0463 | 0.067 | 0.0591 |
| GF7 BWDMUX | / | 0.0914 | 0.0981 | 0.0759 | 0.0925 |
| GF7 BWDPAN | 0.0879 | / | / | / | / |
| GF7 FWDPAN | 0.0949 | / | / | / | / |

注：

1) 以上所有定标系数计算公式为 $L = \text{Gain} \cdot \text{DN} + \text{Bias}$ ，式中 DN 为卫星影像的观测数字值，L 为卫星载荷通道入瞳处等效辐射亮度，单位为 $\text{W} \cdot \text{m}^{-2} \cdot \text{sr}^{-1} \cdot \mu\text{m}^{-1}$ ，Gain 和 Bias 分别为定标系数增益和偏移量，没有标注 Bias 值的情况下代表 Bias 值为 0。

2) 2021 年未发布定标系数的载荷，建议用户继续使用上一年度该载荷的定标系数。