

Absolute Radiometric Calibration Coefficients of SpaceView Satellites – 2017

1. ZY3-01/02 absolute radiometric calibration coefficient

sensor	absolute radiometric calibration coefficient							
	Band1		Band2		Band3		Band4	
	Gain	Bias	Gain	Bias	Gain	Bias	Gain	Bias
ZY3-01 MUX	0.2388		0.2150		0.1693		0.1832	
ZY3-02 PMS	0.2136	0	0.1993	0	0.2189	0	0.1965	0

注: $Le = Gain \times DN + Bias$, Le' unit is $W \cdot m^{-2} \cdot sr^{-1} \cdot \mu m^{-1}$, Gain' and Bias' unit is $W \cdot m^{-2} \cdot sr^{-1} \cdot \mu m^{-1}$.

2. GF-1/2/4 absolute radiometric calibration coefficient

2.1 GF-1 absolute radiometric calibration coefficient

Sensors	absolute radiometric calibration coefficient									
	Pan		Band1		Band2		Band3		Band4	
	Gain	Bias	Gain	Bias	Gain	Bias	Gain	Bias	Gain	Bias
GF-1 PMS1	0.1228	0	0.1424	0	0.1177	0	0.1194	0	0.1135	0
GF-1 PMS2	0.1365	0	0.1460	0	0.1248	0	0.1274	0	0.1255	0
GF-1 WFV1	/		0.2165	0	0.1685	0	0.1354	0	0.1507	0
GF-1 WFV2	/		0.2097	0	0.1630	0	0.1339	0	0.1521	0
GF-1 WFV3	/		0.1870	0	0.1619	0	0.1295	0	0.1383	0
GF-1 WFV4	/		0.1770	0	0.1521	0	0.1322	0	0.1349	0

注: $L_e = \text{Gain} \times \text{DN} + \text{Bias}$, L_e' unit is $W \cdot m^{-2} \cdot sr^{-1} \cdot \mu m^{-1}$, Gain' and Bias' unit is $W \cdot m^{-2} \cdot sr^{-1} \cdot \mu m^{-1}$.

2.2 GF-2 absolute radiometric calibration coefficient

sensor	absolute radiometric calibration coefficient									
	Pan		Band1		Band2		Band3		Band4	
	Gain	Bias	Gain	Bias	Gain	Bias	Gain	Bias	Gain	Bias
GF-2 PMS A	0.1503	0	0.1193	0	0.1530	0	0.1424	0	0.1569	0
GF-2 PMS B	0.1679	0	0.1434	0	0.1595	0	0.1511	0	0.1685	0

注: $L_e = \text{Gain} \times \text{DN} + \text{Bias}$, L_e' unit is $W \cdot m^{-2} \cdot sr^{-1} \cdot \mu m^{-1}$, Gain' and Bias' unit is $W \cdot m^{-2} \cdot sr^{-1} \cdot \mu m^{-1}$.