

AHI-8 Performance Test Results

Band	Center wavelength [μm]	Bandwidth [μm]	Bits	SNR		Dynamic range	Radiometric calibration accuracy	ICT emissivity	Out-of-band response
	Test result	Test result		Scene	Test result	Test result	Test result	Analysis	Test result
1	0.4703	0.0407	11	100% albedo	585	120%	2.63%	-	0.13%
2	0.5105	0.0308	11	100% albedo	645	135%	2.53%	-	0.36%
3	0.6399	0.0817	11	100% albedo	459	165%	2.55%	-	0.08%
4	0.8563	0.0345	11	100% albedo	420	205%	2.39%	-	0.24%
5	1.6098	0.0409	11	100% albedo	912	121%	2.73%	-	0.31%
6	2.257	0.0441	11	100% albedo	688	132%	2.82%	-	0.29%
7	3.8848	0.2006	14	300K	116	401K	0.42%	99.83%	0.23%
8	6.2383	0.8219	11	240K	190	317K	0.34%	99.93%	0.29%
9	6.9395	0.4019	11	300K	1105	327K	0.29%	99.90%	0.43%
10	7.3471	0.1871	12	240K	229	327K	0.24%	99.93%	0.49%
11	8.5905	0.3727	12	300K	1265	344K	0.20%	99.91%	0.34%
12	9.6347	0.3779	12	300K	1149	328K	0.21%	99.92%	0.27%
13	10.4029	0.4189	12	300K	835	371K	0.23%	99.98%	0.36%
14	11.2432	0.6678	12	300K	1105	348K	0.22%	99.98%	0.30%
15	12.3828	0.9656	12	300K	867	403K	0.20%	99.95%	0.32%
16	13.2844	0.5638	11	300K	363	410K	0.22%	99.94%	0.29%

Center Wavelength: that of bandwidth
 Bandwidth: FWHM
 SNR: signal-noise ratio
 ICT (internal calibration target): internal black body target for calibration

Radiances for "100% albedo"

Band #	Radiance	
	[$\text{mW}/\text{m}^2/\text{sr}/\text{cm}^{-1}$]	[$\text{W}/\text{m}^2/\text{sr}/\mu\text{m}$]
1	14.1794	641.5092
2	15.6393	601.9766
3	21.1218	519.3457
4	22.6929	309.3583
5	19.9921	77.1412
6	12.1787	23.9163