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	General features			
	SPOT 5	SPOT 4	SPOT 1, 2 & 3	
Launch date	May 4, 2002	March 24, 1998	SPOT 1 – February 22, 1986 SPOT 2 – January 22, 1990 SPOT 3 – September 26, 1993	
Launch vehicle	Aria	Ariane 2/3		
Nominal lifetime	5 ye	3 years		
Deorbitation	In orbit	In orbit	SPOT 1 – November 17, 2003 SPOT 2 – July 30, 2009 SPOT 3 – November 1996 (end of life)	
Orbit	Sun-synchronous Sun-synchronous			
Local Equator crossing time (descending)	10:30 a.m.			
Altitude at Equator	822 km			
Inclination	98,7°			
Velocity	7.4 km/s			
Altitude control	Earth-pointing and yaw-axis controlled (to compensate for effects due to Earth's rotation)			
Orbital period	101.4 minutes			
Orbital cycle	26 days			
Total mass	3,000 kg	2,760 kg	1,800 kg	
Dimensions	3.1 x 3.1 x 5.7 m	2 x 2 x 5.6 m	2 x 2 x 4.5 m	
Solar array (end of life)	2,400 W	2,100 W	1,100 W	
Recording capacity	90-Gbit solid-state memory (~ 210 images with an average decompressed file size of 144 Mb)	Two 120-Gbits recorders plus 9-Gbit solid-state memory (~ 560 images on each recorder + 40 images, with an average decompressed file size of 36 Mb)	Two 60-Gbit recorders (~ 280 images on each with an average decompressed file size of 36 Mb)	
Onboard image processing	Up to 5 images acquired simultaneously, 2 downlinked in real time AND 3 stored onboard using a 2.6 compression ratio (DCT)	Two images acquired simultaneously, then downlinked OR recorded using a 1.3 compression ratio (DPCM)	Two images acquired simultaneously, then downlinked OR recorded using a 1.3 compression ratio (DPCM, panchromatic imagery only)	
lmage telemetry link (8 GHz)	2 x 50 Mb/s	50 Mb/s		





	High-Resolution Instruments			
	SPOT 5 SPOT 4		SPOT 1, 2 & 3	
Instruments	2 HRGs	2 HRVIRs	2 HRVs	
Spectral bands and resolution	2 panchromatic (5 m), combined to generate a 2.5-metre product 3 multispectral (10 m) 1 short-wave infrared (20 m) 1 panchromatic (10 m) 3 multispectral (20 m) 1 short-wave infrared (20 m)		1 panchromatic (10 m) 3 multispectral (20 m)	
Spectral range	P: 0,48 – 0.71 μm B1 (green): 0.50 – 0.59 μm B2 (red) : 0.61 – 0.68 μm B3 (NIR): 0.78 – 0.89 μm B4 (SWIR): 1.58 – 1.75 μm	M: 0.61 – 0.68 μm B1 (green): 0.50 – 0.59 μm B2 (red): 0.61 – 0.68 μm B3 (NIR): 0.78 – 0.89 μm B4 (SWIR): 1.58 – 1.75 μm	P: 0.51 – 0.73 μm B1 (green): 0.50 – 0.59 μm B2 (red): 0.61 – 0.68 μm B3 (NIR): 0.78 – 0.89 μm	
lmaging swath	60 km x 60 km to 80 km			
Image dynamics	8 bits			
Absolute location accuracy (no ground control points, flat terrain)	30 m (1 σ)*		ι (1 σ)*	
Relative internal distance accuracy (level 1B)	0.5 x 10 ⁻³ (1 σ)			
Programmable	Ye	-		
Angle of incidence	± -31.06°			
Average revisit interval over a 26-day orbital cycle, depending on latitude	2 to 3	-		

^{*} Location accuracy is evaluated on the basis of a statistic calculated from a large number of scenes acquired from September 2003, across the globe.

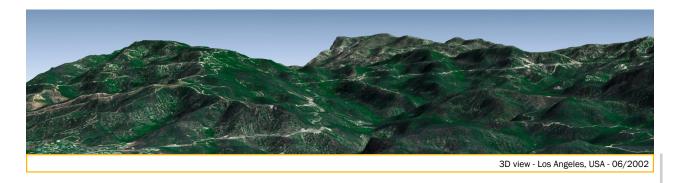
	VEGETATION Instrument		
	SPOT 5	SPOT 4	
Passenger instrument	VEGETATION 2	VEGETATION 1	
Spectral bands	4		
Electromagnetic spectrum	B0: 0.45 – 0.52 µm B2: 0.61 – 0.68 µm B3: 0.78 – 0.89 µm B4: 1.58 – 1.75 µm		
Resolution	1,000 m		
lmaging swath	2.250 km		
Image dynamics	10 bits		
Revisit interval 1 day		day	





	Stereoscopic Instruments				
	SPOT 5		SPOT 4	SPOT 1, 2 & 3	
Instrument	HRS along-track stereoviewing	HRG stereoviewing capability across track	HRVIR stereoviewing capability across track	HRV stereoviewing capability across track	
Spectral bands and resolution	1 panchromatic (10 m) (resampled every 5 m along track) → 10 m across track, 5 m along track	2 panchromatic (5 m) combined to generate a 2.5-metre product 3 multispectral (10 m) 1 short-wave infrared (20 m)	1 panchromatic (10 m) 3 multispectral (20 m) 1 short-wave infrared (20 m)	1 panchromatic (10 m) 3 multispectral (20 m)	
Spectral range	P: 0.49 – 0.69 μm	P: 0.48 – 0.71 μm B1: 0.50 – 0.59 μm B2: 0.61 – 0.68 μm B3: 0.78 – 0.89 μm B4: 1.58 – 1.75 μm	M: 0.61 – 0.68 μm B1: 0.50 – 0.59 μm B2: 0.61 – 0.68 μm B3: 0.78 – 0.89 μm B4: 1.58 – 1.75 μm	P: 0.51 – 0.73 μm B1: 0.50 – 0.59 μm B2: 0.61 – 0.68 μm B3: 0.78 – 0.89 μm	
Imaging swath	600 km x 120 km	60 km x 60 km to 80 km			
Image dynamics	8 bits				
Base/height ratio (B/H)	~ 0,84 (± 20°)	0.5 to 1.1			
Absolute location accuracy (no ground control points, flat terrain)	10 m (1 σ)*	30 m (1 σ)*		(1 σ)*	
Time between two images	90 seconds (simultaneous)	Variable			

^{*} Location accuracy is evaluated on the basis of a statistic calculated from a large number of scenes acquired from September 2003, across the globe.



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