

PSLV-C23 Mission

Commercial Satellite Launch

30 June, 2014

THE MISSION

PSLV-C23 carrying on-board the SPOT-7 Satellite along with 4 other co-passenger satellites lifted-off from the Satish Dhawan Space Centre (SDSC) SHAR, Sriharikota on June 30, 2014. SPOT-7 from France, is an Earth Observation satellite, placed into a 655 km Sun-synchronous Orbit (SSO).

AISAT from DLR Germany, NLS7.1 and NLS7.2 from UTIAS / SFL Canada and VELOX-1 from NTU Singapore were the four other International Customer Satellites.





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THE LAUNCH VEHICLE

PSLV-C23 in its 10th flight used the 'Core-alone' configuration without the use of solid strap-on motors.

SPECIFICATIONS

Height	44 m
Lift-Off Mass	320 t
No of Stages	4
Payloads	INTERNATIONAL CUSTOMER SATELLITES France (1), Germany (1), Canada (2) and Singapore (1)



STAGE CHARACTERISTICS

	Stage-1	Stage-2	Stage-3	Stage-4
Nomenclature	PS1	PS2	PS3	PS4
Propellant	Solid (HTPB based)	Liquid (UH25 + N ₂ O ₄)	Solid (HTPB based)	Liquid (MMH + MON-3)
Mass (T)	138	41	7.6	2.5
Max Thrust (kN)	4787	804	242	7.3 x 2
Burn Time (sec)	102	148	110	526
Stage Dia (m)	2.8	2.8	2.0	2.8
Stage Length (m)	20	12.8	3.6	3.0