

DNEPR CLUSTER MISSION 2013 LAUNCH OF 24 PAYLOADS







SC mass: 300 kg









Emirates Institution for Advanced Science and Technology (EIAST),

DubaiSat-2 is a second Earth Observation satellite of UAE. The SC is designed to provide electro-optical imagery with a spatial resolution of 1 m PAN (panchromatic) and 4 m MS (multispectral) from an orbit of 600 km altitude.

BPA-3



State Space Agency of Ukraine, Ukraine

The Advanced Avionics Unit (BPA-3) is an experimental instrumentation designed for application in navigation systems of civilian aircraft, spacecraft and launch vehicles. BPA-3 is a non-separable payload that remains attached to the LV Space Head Module after separation of all spacecraft.

STSAT-3







Aerospace Research Institute of Korea (KARI), Republic of Korea

SC is intended for astronomical observation, galaxy imaging and relict infrared imaging for scientific purposes as well as for infrared and hyperspectral Earth imaging for environment research, ground classification and water quality contro.l

SkySat-1





Skybox Imaging Inc., USA

SkySat-1 is a commercial earth imaging satellite that will provide 1-4m imagery on the international market.

UniSat-5

SC mass: 170 kg





Group of Astrodynamics for the Use of Space Systems, Italy

UNISAT-5 SC purpose is to release CubeSats (PUCPSAT, HumSat-D, I-CUBE, Dove-4) and PocketQubes (Eagle-1, Eagle-2, QBScout, Wren) in orbit (approximately one month after the SC separation from LV) using PEPPOD and MRFOD deployer systems.

AprizeSat-7,-8

SC mass: 90 kg



USA







SC mass: 14 kg

AprizeSat-7 and AprizeSat-8 are communication satellites designed for receiving and transmitting of short data packages from fixed and mobile assets, and to track the location of ships at sea.



SC mass: 31 kg



XPOD Systems

Space Flight Laboratory Institute of Aerospace Exploration at Toronto University, Canada



WNISAT-1 - is a scientific mission for monitoring the Arctic sea ice conditions and carbon dioxide content in the atmosphere.



BRITE-PL - is intended to study oscillations in the light intensity of the most luminous stars (brighter than magnitude + 3.5).



GOMX-1 - is an experimental satellite for technology demonstration.

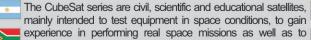


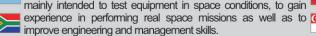


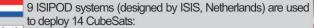
ISIPOD Systems

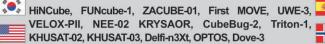
Innovative Space Logistics BV, The Netherlands

14 CubeSats







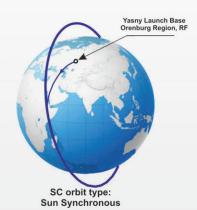




YASNY LAUNCH BASE



Cluster Mission pre-launch processing and SC integration with Dnepr Space Head Module (SHM) were performed at Yasny Launch Base (LB), town of Yasny, Orenburg Region, Russia. Yasny Assembly, Integration and Test Building (AITB) is a high-tech complex housing a SC processing clean room, a SC/SHM integration clean room, and a SC fueling station with its own clean room. The AITB is furnished with the modern systems and utilities for spacecraft pre-launch processing.



Assembly, Integration and Test Building and Admin/Hotel Complex















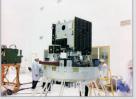
SC processing in AITB











Cluster Mission Orbit Injection Profile

