



Note: This file can not replace watching the video lecture. Because the video lecture contains more explanation through graphical elaboration.

Certified Junior Astronaut Training Course

Components of the Space System (Part 1)





This lecture will answer the following inquiry:



What are the components of Satellites System?

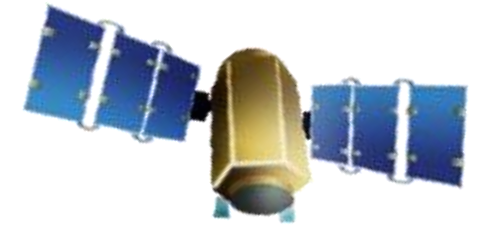


What are the components of Satellites System?

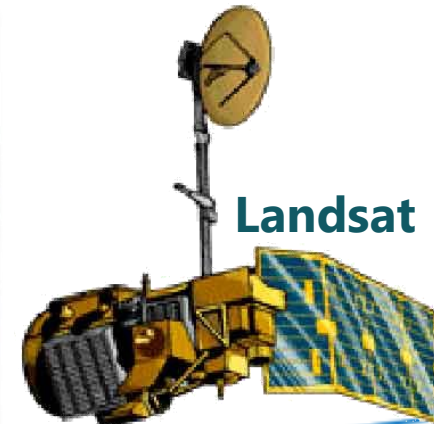
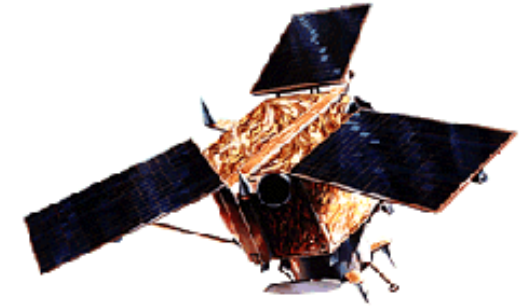
Satellites System is composed of three major components as follows:

- Space Segment.
- Ground Segment.
- Launcher.

Space Segment means everything working in space, which is represented by satellites; whether they are imaging, communication or other types of satellites.



IKONOS



Landsat



Nilesat





Cont.. What are the components of Satellites System?

Ground Segment refers to both Receiving Stations and Control Stations. Receiving Stations receive images from Imaging Satellites or receive data, and telephone calls from Communication Satellites; while Control Stations send control orders to satellites in order to direct them to the required imaging location and to perform orbit correction; in case of satellite deviation.



Sources: EADS Astrium, Eutelsat, Geoeye



Cont.. What are the components of Satellites System?

- ✚ The Launcher refers to the Space Rocket used in launching the satellite in its orbit. This video shows a simulation for a launching process.



Source: NASA Constellation Program



Thanks for your undivided attention

