

Lunar Exploration (3)
Lunar Missions planned (2A)

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THE CHARACTERISTICS OF SPACEIL MISSION AND KEY TECHNOLOGIES FOR LOW-COST
INDEPENDENT MOON EXPLORATION

Abstract

AbstractMoon explorations are important space activities which can improve national technical capacity and competitive advantage. Not only main space nations and agencies but also many science organizations have participated the explorations of the moon and the deep space The SpaceIL mission represent a new direction in the field of the low-cost moon explorations. As a non-profit organization competing with the GLXP (Google Lunar XPrize), SpaceIL spacecraft decide to launch as a secondary payload. The objects of this mission are the realization of landing a privately funded spacecraft on the Moon, traveling 500 meters, and transmitting back high definition videos and images. The mission plan which were decided by the SpaceIL design team have the characteristics of low cost,high general and high feasibility. The results of this research have high value for China's low cost moon exploration, and have great significance for the development of deep space mission plan in China.