

LINE OF SIGHT STABILIZATION SYSTEM

Abstract

An optical system (20) is presented, which is configured to enable the line of sight stabilization. The system comprises a light module (230), an optical module (210) defining an optical axis (OX) and an optical path of light propagation therethrough, and a stabilizer (220) configured and operable for providing optical coupling between said optical module (210) and said light module (230). The stabilizer (220) comprises: a gimbal assembly defining a first rotation axis (FRX) orthogonal to said optical axis (OX), and an internal deflector (222) located in the optical path of light propagating through said optical module (210). The internal deflector (222) is mounted for rotation about said first rotation axis (FRX) and is configured and operable to provide optical coupling between at least a section of the optical path of said optical module (210) and an optical path of light passing through said light module (230).

Fig. 2A