

A SYSTEM FOR MAPPING AND TRACKING GROUND TARGETS

ABSTRACT

5 A system (100) for autonomously mapping and tracking of ground targets at a location of interest has been disclosed. The system (100) comprises at least one user control center (108) in operative communication with one or more data relay satellites (106) in Geostationary Equatorial Orbit (GEO), the data relay satellites in operative communication with one or more UAVs (102) and/or SAR satellites (104) with on-board
10 different imaging sensors to obtain various types of imagery data from the ground targets. The data relay satellites target specific constant communication with the user control center (108) and the UAVs and SAR satellites for continuous feedback and control. Moreover, the system (100) process all raw data obtained from the UAVs (102) and SAR satellites (104) to produce 2D and 3D Digital Elevation Models (DEMs) and
15 high resolution images, which are displayed on the user control center (108) and/or selected mobile handheld devices.

Most Illustrative Drawing: Figure 1.