



PRoVisG - Planetary Robotics Vision Ground Processing

FP7-2007.2.1.01 Space - Collaborative Project Grant Agreement no: 218814

Project Homepage: www.provisg.eu starting: Oct 08 duration 39 months

D3.4 Report Omni-View stereo camera system and 3D-TOF camera

Actual submission date: 2009-11-30

Work package 3 – Interfaces Task 3.2 Vision Sensors, Description & Data Access

Lead contractor for this deliverable CSEM

Dissemination level: Public

EXECUTIVE SUMMARY

Compact catadioptrical cameras and Time-Of-Flight (TOF) cameras show a high potential for autonomous vehicle navigation. For the European Project “PRoVisG” CSEM has developed a miniature omniview camera with a horizontal field of view of 360° and a vertical field of view of 70°. With two such cameras stacked vertically, the overlapping vertical field of view can be used to calculate distance maps from stereo vision. The stereo omniview camera system and an additional 3D-TOF camera were successfully integrated on a rover during first field trials on Earth

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