



The stereo camera on the ESA mission BepiColombo

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The stereo camera is a channel of SIMBIOSYS, that is an instrument of the ESA mission BepiColombo.

The main scientific objective is the global mapping of the entire surface of Mercury in 3D and colors with a maximum spatial resolution of 50 m per pixel, at the perihelion. It will allow to generate the Digital Terrain Model of the entire surface improving the interpretation of morphological features at different scales and topographic relationships.

The instrument concept is based on two channels, looking at the surface at +/- 20 degrees from the nadir direction, converging on the same focal plane assembly, and it doesn't have any mechanism.

This work will show an overview of the instrument and the scientific objectives