

SPACE EXPLORATION SYMPOSIUM (A3)
Solar System Exploration (5)

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METIS DETECTOR ASSEMBLIES

Abstract

The METIS coronagraph is one of the scientific instruments to be embarked on Solar Orbiter, the M-class mission of the ESA Cosmic Vision program devoted to the exploration of the Sun at a distance as close as 0.28 AU. METIS will be equipped with a detection subsystem formed by two detector assemblies, one for the visible light channel, the Visible Light Detector Assembly (VLDA) and one for the hydrogen Lyman-Alpha channel, the UltraViolet Detector Assembly (UVDA). The subsystem also includes service units such as the High Voltage Power Supply (HPVS) serving the UVDA and a Camera Power Converter (CPC) serving both assemblies. The detection system is based on CMOS-APS sensors with electronic readout systems specially developed for METIS. The development of these cameras includes all the qualifications required by the Solar Orbiter mission.