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## The Imaging and Slitless Spectroscopy Instrument for Surveys (ISSIS) for the World Space Observatory–Ultraviolet (WSO-UV): optical design, performance and verification tests.

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## Abstract

ISSIS is the instrument for imaging and slitless spectroscopy on-board WSO-UV. The baseline for ISSIS design, as approved at the PDR held in May 2012, consists of two acquisition channels, both of them provided with photon counting detectors with Micro-Channel Plates (MCP). These two channels are named the Far Ultraviolet (FUV) Channel covering the 1150-1750 Å wavelength range and the Near Ultraviolet (NUV) Channel in the 1850-3200 Å range. In this work, we present the current ISSIS design and its main characteristics. We present the main performance verification for ISSIS to ensure that the current design of IS-SIS fulfils the scientific requirements and to ensure the feasibility of the in-flight calibration. We also define the facilities and technical characteristics for realizing the tests.