

980 DATA SHEET – UHD ALLIANCE TEST PATTERN PACK

TEST ULTRA HIGH DEFINITION TVS FOR COMPLIANCE

OVERVIEW

The 980 series HDMI 2.0 Video Generator module offers an optional license for the UHD Alliance test pattern pack. The UHD Alliance test patterns are called out in the Ultra-High Definition Alliance Test Specification. The test pattern pack is required to assess a UHD TV's compliance to all tests in the specification including:

- Section 4.2 High Dynamic Range: Peak White
- Section 4.3 High Dynamic Range: Black Level
- Section 4.4 High Dynamic Range: Tone Mapping
- Section 4.5 Wide Color Gamut
- Section 4.6 Resolution
- Section 4.7 Input Frame Rate and Bit Depth
- Section 4.8 Grey-Scale Tracking

TESTING UHD-CAPABLE DISPLAYS

For testing a UHD-Capable TV, the 980 HDMI 2.0 Video Generator module offers the necessary high resolution format, the test patterns and ease of use to quickly conduct functional testing using visual assessment or to conduct UHD compliance tests (Spectroradiometer required for Sections 4.2, 4.3, 4.5, 4.8). When the UHD test patterns are selected through the 980 GUI interface, the module emulates an UHD-capable source by transmitting the UHD test pattern and, where required, the module will also transmit the necessary Dynamic Range and Mastering InfoFrame metadata.

The Dynamic Range and Mastering InfoFrame data includes an Electro-Optical Transfer Function (EOTF) and the Static Metadata with the dynamic range of the video stream.

