

UHD TV and Immersive Video: Trends and Prospects for UHD, HDR, VR

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Abstracts

Recent technological developments in the audiovisual field, through new formats and innovative equipment, are providing greater immersion and improving our representation of the real world. This report presents the current state of Ultra-High Definition TV and immersive technologies (360° video and virtual reality). The concepts and viewing methods are presented along with an overview of current UHD services and the first forays into immersive video. The impact of the new formats along the video value chain are also analysed. Finally, we take a detailed look at the major challenges faced by the television, Internet and consumer electronics industries regarding these innovations.

Advances in technology and particularly the miniaturisation of electronic components have now opened new possibilities for increasing immersion, resulting in the emergence and growth of 360° video and virtual reality (VR) content. These new formats offer completely new forms of video consumption.

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