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**High dynamic range (HDR) video technology - Part 1: Metadata
and processing**

高动态范围（HDR）视频技术 第1部分: 元数据及适配

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents". Drafting.

This document is Part 1 of GB/T 46269, "High Dynamic Range (HDR) Video Technology". GB/T 46269 has the following publications. part.

- Part 1: Metadata and Adaptation;

- Part 2: Application Guidelines.

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The main drafters of this document are: Fan Kefeng, Sun Qifeng, Jiang Wenbo, Pan Xiaofei, Guo Xiaoqiang, Zhou Yun, Ning Jinhui, Zhang Qian, Yu Quanhe, and Sun Lei.

Yuan Le, Li Yongpeng, Chen Renwei, Zhang Jinsha, Sun Yanlong, Xu Yaoling, Luo Shaofeng, Li Bin, Huang Junjie, Bai Jianjun, Luo Chuanfei, Liu Xianda, Wang Yahui Yu Lei, Lai Hangman, Mao Ke, Wang Qi, Wang Ding, Shi Weijia, Lin Lin, Chen Zhimin, Zeng Zhihua, Dong Yuan, Wu Jian, Pan Hongmei, Zhang Wengang, Qiu Puye Li Yan, Hu Xiao, Wang Huiming, Zhang Xiufeng.

Introduction

High dynamic range (HDR) display adaptation is a key technology for ultra-high-definition video, requiring stable display across devices with varying display capabilities.

Effects. GB/T 46269 aims to standardize adaptive display adaptation technology for HDR video signals on terminals with different display capabilities, and is proposed to consist of two... Partial composition.

- Part 1: Metadata and Adaptation. The purpose is to define the end-to-end system framework, metadata definitions, and terminal requirements for HDR video technology. Show the adaptation process.

- Part 2: Application Guide. This section aims to help users build products and systems that support the HDR video technologies described in Part 1.

The system enables interoperability.

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Patent holder. Huawei Technologies Co., Ltd.

Address. Huawei Base A, Bantian, Longgang District, Shenzhen, Guangdong Province.

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High Dynamic Range (HDR) video technology Part 1: Metadata and Adaptation

1 Scope

This document defines the end-to-end system framework, metadata definition, and terminal display adaptation process for high dynamic range (HDR) video technology.

This document applies to high dynamic range video applications such as broadcast television, online audiovisual media, video surveillance, real-time communication, and digital storage media.

Processing of frequency signals, including acquisition, production, broadcasting, distribution, reception, and display.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included.

For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

ISO /CIE 11664-1 Colorimetry - Part 1: Standard colorimetric instruments

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 metadata

Data that describes the key information and features needed in video or image processing.

3.2 static metadata

Metadata associated with an image sequence and that remains unchanged within the image sequence.

3.3 dynamic metadata

Metadata associated with each frame of the image and that changes as the image changes.

3.4 Adaptation processing

The process of mapping one set of colors to another to achieve a stable display effect on terminals with different display capabilities.

4 Abbreviations

The following abbreviations apply to this document. HDR. High Dynamic Range MSB. Most Significant Bit