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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

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**Image parameter values for high dynamic range television for
use in production and programme exchange**

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules of Standardization Documents" drafted.

This document modifies the use of ITU-RBT.2100-2.2018 "Picture parameters for high dynamic range television for production and international programme exchange"

value". The file type is adjusted by the ITU recommendation to the national standard of our country.

Compared with ITU-RBT.2100-2.2018, this document has more structural adjustments. Struct number change pair between two files

See Appendix A for the list.

The technical differences between this document and ITU-RBT.2100-2.2018 and their reasons are as follows.

--- Deleted 30Hz, 30/1.001Hz, 25Hz, 24Hz and 24/1.001Hz frame rates in ITU-RBT.2100-2.2018,

To adapt to my country's TV system and application needs (see Table 1 of ITU-RBT.2100-2.2018);

--- Replaced the normative reference document ITU-RBT.814 (see Table 3) with GY/T 326-2019, which was modified to adopt international standards;

--- Table 1~Table 3, Table 6~Table 9 have added the requirement type clauses that meet the corresponding table;

---The references in Table 4, Table 5, and Table 10 are modified to requirement-type

clauses.

The following editorial changes have been made to this document.

--- In order to be consistent with my country's technical standard system, the standard name is changed to "High Dynamic Range TV Program Production and Exchange Image Parameter Values";

--- Deleted the "scope" and "keywords" of ITU-RBT.2100-2.2018;

--- Added a note for the description of "CIE1931XYZ color space" in Table 2;

--- Added references.

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

1 Scope

This document specifies the basic picture parameter values and reference viewing environments involved in the production and exchange of high dynamic range television programmes.

This document is applicable to high dynamic range television program production and program exchange, as well as the design, production, and production of high dynamic range television systems and equipment.

production, acceptance, operation and maintenance.

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, dated citations

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

GY/T 326-2019 PLUGE test signal specification and calibration procedure for monitor brightness and contrast calibration (ITU-RBT.

814-4.2018, MOD)

ISO 11664-2.2007 Chromaticity Part 2.CIE standard illuminance (Colorimetry-Part 2.CIEstandardilumi-

3 Terms and Definitions

There are no terms and definitions that need to be defined in this document.

4 Abbreviations

The following abbreviations apply to this document.

HLG. HybridLog-Gamma

5.1 Image Spatial and Temporal Characteristics

The spatial and temporal characteristics of the image shall comply with the provisions of Table 1.