

ICS 33.160

CCS M 61



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

GB/T 41809-2022

**Parameter values for ultra-high definition television systems for
production and programme exchange**

Issued on: October 12, 2022

Implemented on: October 12, 2022

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

Table of Contents

foreword

1 Scope

2 Normative references

3 Terms and Definitions

4 Basic parameters of UHD TV program production

4.1 Image space characteristics

1 aspect ratio 16.9

2 Effective number of pixels (horizontalxvertical) 7680x4320 3840x2160

3 The sampling structure is orthogonal

4 pixel aspect ratio 1.1 (square)

5 Pixels arranged left-to-right, top-to-bottom

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 is modified and adopted ITU-RBT.2020-2.2015 "Parameter Values for Program Production and International Exchange in Ultra High Definition Television Systems". arts

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

Compared with ITU-RBT.2020-2.2015, 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.2020-2.2015 and their reasons are as follows.

--- Added the terms and definitions of "Ultra High Definition Television" (see 3.1);

--- Deleted the 30Hz, 30/1.001Hz, 25Hz, 24Hz, 24/1.001Hz frame rates in ITU-RBT.2020-2.2015 to

Adapt to my country's TV system and application needs (see Table 2 of

ITU-RBT.2020-2.2015);

---In front of Table 1 to Table 5, the requirement-type clauses that meet the corresponding table are added.

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 "Ultra-high-definition television system program production and exchange parameter values";

--- Deleted the "scope" and "keywords" of ITU-RBT.2020-2.2015;

--- 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 parameter values involved in the production and exchange of programs in Ultra High Definition Television (UHDTV) systems.

This document is applicable to the production and exchange of UHDTV programs, as well as the design, production and production of UHDTV 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.

ITU-RBT.1886 Reference electro-optical transfer function for flat panel display devices for high-definition television studio program production (Reference

ITU-RBT.2035 Reference viewing environment for evaluation of high-definition television program material or finished program

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1

Ultra HD TV with 7680x4320 or 3840x2160 image format.

4.1 Image space characteristics

The image space characteristics should meet the requirements of Table 1.

Table 1 Image space characteristics

Serial number parameter value

chinastandards.org · PREVIEW