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ICS 33.060.99
CCS M36

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 4198-2023

Evaluation Algorithm and Parameters of User Immersion Experience in Virtual Reality (VR) Services

虚拟现实（VR）服务中用户沉浸体验评估算法及参数

(English Translation)

Issued on: April 21, 2023 **Implemented on: August 1, 2023**

Issued by: Ministry of Industry and Information Technology

Preview: page 1 of 3 shown, 15 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/yd-t-4198-2023

Table of Contents

[Preview only]
1 Scope
2 Normative references
3 Abbreviations
3.1 Terms and definitions
4 General
4.1 Test environment
4.2 UE Information
4.3 Test Implementation
5 Technical requirements

1 Foreword

YD/T 4198-2023 was issued by Ministry of Industry and Information Technology on 21 April 2023 and has been in force since 1 August 2023.

The YD/T prefix marks a recommended standard. It is not law in itself: it becomes binding when a contract names it, when a regulation or a mandatory standard refers to it, or when a producer declares conformity with it.

The document runs to 15 pages in English translation.

2 Scope Preview

This standard specifies the algorithms and parameters for virtual reality (VR) service experience. The evaluation algorithm evaluates resolution, frame rate, bit rate, FOV, MTP, and degree of freedom from the perspectives of audio-visual immersion experience quality, presentation experience quality, and interactive experience quality. Define, model and quantify more than 20 indicators (business monitoring model). This standard applies to the experience evaluation needs of operators, equipment manufacturers, content producers, service providers, etc. at different levels and angles, and provides different evaluation modules. The algorithms specified in this standard are not only suitable for comprehensive evaluation of user experience of VR services, but also for quantitative analysis of different influencing factors.

YD/T 4198-2023 falls under ICS 33.060.99, in the field of telecommunications.

This catalogue holds 3,420 other YD/T standards in that field.

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In this catalogue, YD/T standards carry edition years from 1982 to 2026.

3 About this standard

Sector: Telecommunication Industry Standard (Recommended)

Issued by: Ministry of Industry and Information Technology

English translation: about 15 pages (approximate)

4 Related standards

Standards on related subjects:

YD/T 3711-2020 - Technical requirement of IMS based vehicle eCall system based on public telecommunication network

GB/T 32401-2015 - Technical requirements and measurement methods for VHF/UHF frequency

GB/T 12572-2008 - Universal requirements and measurement methods of parameters for radio transmitting equipment

YD/T 4192-2023 - Technical requirements for mobile data network capability exposure device interface for application capability exposure

YD/T 4191-2023 - 5G bearer network interconnection and interworking technical requirements

YD/T 4188-2023 - Technical requirements for voice service interconnection based on WLAN access to LTE network

5 Classification and status

International classification (ICS): 33.060.99

Chinese Standard Classification (CCS): M 36

Prefix YD/T: recommended standard.

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