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ICS 33.100
CCS L06

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 6589-2025

Requirements and measurement methods of electromagnetic Compatibility for radio optical communication equipment based on LED and infrared technology

基于LED和红外技术的无线光通信设备电磁兼容性要求和测量方法

(English Translation)

Issued on: December 17, 2025 **Implemented on: April 1, 2026**

Issued by: Ministry of Industry and Information Technology

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https://chinastandards.org/standards/yd-t-6589-2025

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1 Foreword

YD/T 6589-2025 was issued by Ministry of Industry and Information Technology on 17 December 2025 and has been in force since 1 April 2026.

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 electromagnetic compatibility (EMC) requirements for wireless optical communication equipment and its auxiliary equipment based on LED and infrared technologies, including test conditions, emission limits, performance criteria, and measurement methods. This standard applies to wireless optical communication equipment based on LED lighting and infrared technologies in indoor environments. Equipment types include LED light sources, infrared receivers, lamp-end devices, wireless optical communication terminals, and integrated devices with LED light sources at the lamp end.

YD/T 6589-2025 falls under ICS 33.100, in the field of telecommunications.

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

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

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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:

GB/T 6113.104-2021 - Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-4: Radio disturbance and immunity measuring apparatus - Antennas and test sites for radiated disturbance measurements

GB/T 6113.201-2018 - Specification for radio disturbance and immunity measuring apparatus and methods -- Part 2-1: Methods of measurement of disturbances and immunity -- Conducted disturbance measurements

YD/T 983-2013 - Limits and methods of measurement of electromagnetic compatibility of telecommunicatin power supply equipment

YD/T 1312.15-2026 - Requirements and measurement methods of electromagnetic compatibility for radio communication equipment - Part 15: Ultra wide band (UWB) communications devices

YD/T 1312.13-2026 - Requirements and measurement methods of electromagnetic compatibility for radio communication equipment - Part 13: Power adapter of mobile telecommunication terminal equipement

YD/T 1312.11-2026 - Requirements and measurement methods of electromagnetic compatibility for radio communication equipment - Part 11: Fixed broadband wireless access system user equipment and its ancillary equipment

5 Classification and status

International classification (ICS): 33.100

Chinese Standard Classification (CCS): L 06

Prefix YD/T: recommended standard.

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