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ICS 17.180.30
CCS N30

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 6429-2025

Vehicle-infrastructure cooperation - Technical specification of roadside lidar

车路协同 路侧激光雷达技术规范

(English Translation)

Issued on: July 2, 2025 **Implemented on: November 1, 2025**

Issued by: Ministry of Industry and Information Technology

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https://chinastandards.org/standards/yd-t-6429-2025

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1 Foreword

YD/T 6429-2025 was issued by Ministry of Industry and Information Technology on 2 July 2025 and has been in force since 1 November 2025.

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 basic requirements, basic performance, angle measurement performance, ranging performance, field performance, environmental assessment, radiation safety, reliability and other technical requirements and test methods for roadside lidar. This standard applies to lidar for vehicle-road cooperative roadside perception. Lidar in other industries may refer to this standard.

YD/T 6429-2025 falls under ICS 17.180.30, in the field of metrology and measurement.

This catalogue holds 5 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 4315.1-2009 - Optical transfer function -- Part 1: Terminology and symbol

GB/T 4315.2-2009 - Optical transfer function -- Part 2: Directives of measurement

GB/T 2985-2008 - Biological microscope

5 Classification and status

International classification (ICS): 17.180.30

Chinese Standard Classification (CCS): N 30

Prefix YD/T: recommended standard.

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