

ICS 13.310
CCS A 91



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

GB/T 46344.5-2025

**Video and image analysis system for public security - Part 5:
Testing specifications**

公共安全视频图像分析系统 第5部分：检验规范

Issued on: October 5, 2025

Implemented on: May 1, 2026

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. This document is Part 5 of GB/T 46344 "Public Security Video Image Analysis System". GB/T 46344 has the following publications. part.

- 1.General Technical Requirements;
- 2.Technical Requirements for Video Image Content Analysis and Description;
- 3.Requirements for Video Image Enhancement Techniques;

4. Technical Requirements for Video Image Retrieval;

5. Inspection Specifications. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the Ministry of Public Security of the People's Republic of China. This document is under the jurisdiction of the National Technical Committee on Standardization of Security and Alarm Systems (SAC/TC100). This document was drafted by: National Security and Alarm System Product Quality Inspection and Testing Center (Beijing) and Beijing Zhongdun Security Technology Group Co., Ltd. Limited Liability Company, Zhejiang Uniview Technologies Co., Ltd., Zhejiang Dahua Technology Co., Ltd., Hangzhou Hikvision Digital Technology Co., Ltd. Huawei Technologies Co., Ltd. and Beijing Zhongke Zhenguan Information Technology Co., Ltd. The main drafters of this document are. Wang Lie, Lu Yuhua, Li Pengfei, Shen Yuchen, Wang Jing, Yin Ping, Liu Jianxuan, Wu Canyi, Du Yunpeng, and Kong Weisheng. Meng Fanhui and Dang Qiaoqiao.

GB/T 46344 "Public Security Video Image Analysis System" specifies the composition, external connections, and other aspects of a public security video image analysis system. The specifications standardize functional requirements, performance requirements, and testing methods, aiming to guide the design, development, testing, and implementation of public security video image analysis systems. Acceptance testing will promote the efficient networked application of video image analysis technology in the field of public safety video surveillance. GB/T 46344 is proposed to be implemented by five departments. Composition.

1. General Technical Requirements. The purpose is to establish the overall technical requirements that public safety video image analysis systems must adhere to. Require.

2. Technical Requirements for Video Image Content Analysis and Description. The purpose is to standardize the technical requirements for video image analysis systems used in public security systems. The technical components, task flow, functions, performance, and function-interface correspondence of video image content analysis and description. Require.

3. Video Image Enhancement Technical Requirements. The purpose is to standardize video image enhancement techniques in public security video image analysis systems. Strong technical requirements for functional components, processing flow, functions, and performance.

4. Technical Requirements for Video Image Retrieval. The purpose is to standardize video image retrieval technology in public security video image analysis systems. Technical requirements for the search function, including its components, search process, functions, performance, and the correspondence between functions and interfaces.

5. Testing Standards. The purpose is to standardize the testing environment, testing procedures, and functions of public security video image analysis systems. Technical

requirements such as inspection and performance testing. Public Security Video Image Analysis System Part

1 Scope

GB/T 46344.5-2025 is the Chinese national standard covering testing a surveillance analysis system - the test datasets and their construction, the detection and recognition accuracy measured against ground truth, the false alarm rate, the performance under poor light and occlusion, and the throughput. At 25,000 words. Part 5 of the series, first edition, under the Ministry of Public Security. In force from 1 May 2026. Issued on 5 October 2025, it has been in force since 1 May 2026.

This document specifies the testing environment for public security video image analysis systems, establishes the testing process, and describes functional testing methods and performance evaluation procedures. The method can be tested. This document applies to the inspection of public security video image analysis systems.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are listed below. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 28181 Technical requirements for information transmission, exchange and control of public security video surveillance network systems

GB/T 30147-2013 Technical Requirements for Real-time Intelligent Analysis Equipment for Security Surveillance Video

GB/T 46344.1-2025 Public Security Video Image Analysis System - Part

3 Terms and definitions, abbreviations

3.1 Terms and Definitions The terms and definitions defined in GB/T 30147-2013, GB/T 46344.1-2025 to

GB/T 46344.4-2025, as well as the following terms and definitions, shall apply. Used in this document.

3.1.1 Reference data The annotation of targets, events, and other content in video images serves as a criterion for determining the correctness of the video image analysis output. According to the data. [Source:

GB/T 30147-2013, 3.1.23, with modifications]

3.2 Abbreviations The following abbreviations apply to this document.

4 Technical Requirements for Video Image Retrieval

GB/T 46363-2025 Technical Requirements for Integrated Application Service Interface of Public Security Video Image Information GA36-2018 Motor Vehicle License Plate of the People's Republic of China

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