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

GB/T 46344.2-2025

**Video and image analysis system for public security - Part 2:
Technical requirements for analysis and description of video
and image content**

公共安全视频图像分析系统 第2部分：视频图像内容分析及描述技术要求

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Table of Contents

1.Scope	1
2 Normative References	1
3.Terms, Definitions, and Abbreviations	1
3.1 Terms and Definitions	1
3.2 Abbreviations	3
4.Functional Components and Task Flow	3
4.1 Functional Components	3
4.2 Task Flow	4
5 Functions	6
5.1 Video Image Content Analysis	6
5.2 Video Image Content Description	8
6 Performance	9
6.1 Target Detection	9
6.2 Target Attribute Recognition	10
6.3 Target Quantity Analysis	10
6.4 Event Detection	11
12 Reference	14

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 2 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: the First Research Institute of the Ministry of Public Security, Beijing Zhongdun Security Technology Group Co., Ltd., and Zhejiang Dahua Technology Co., Ltd. Company, Zhejiang Uniview Technologies Co., Ltd., Beijing Megvii Technology Co., Ltd., Isa Technologies Co., Ltd., Huawei Technologies Co., Ltd., Suzhou Keda Technology Co., Ltd., Hangzhou Hikvision Digital Technology Co., Ltd., Jinpeng Electronic Information Machinery Co., Ltd., Gosuncn Technology Technology Group Corporation, Beijing Geling Vision Information Technology Co., Ltd., University of Science and Technology of China, Chongqing Ziguang Huashan Smart Security Technology Co., Ltd. Technology Co., Ltd. The main drafters of this document are. Wang Jianyong, Meng Qingqing, Kong Weisheng, Cui Yunhong, Zhao Huifang, Wu Canyi, Du Yunpeng, Sun Lili, and Deng Xuran. Wang Lie, Zhao Xuan, Sun Yani, Meng Fanhui, Yin Ping, Li Hongmei, Lin Chuan, Jin Zhaolong, Lu Haixian, Wei Yi, Zeng Shaoxu, Wu Chunmei, Zhang Yongdong, Xie Hongtao Li Ang.

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 2. Video image content analysis and description technology requirements

1 Scope

GB/T 46344.2-2025 is the Chinese national standard covering how a surveillance system describes what it saw - the objects and attributes it must be able to report, the events and behaviours, the structured description format, and the confidence attached to each assertion. Part 2 of the series, first edition, with the testing specification in Part 5. In force from 1 May 2026. Issued on 5 October 2025, it has been in force since 1 May 2026.

This document specifies the functional components and task flow of video image content analysis and description in the public security video image analysis system. Technical requirements such as energy, performance, functionality and interface correspondence. This document applies to the planning, design, software development, testing, and implementation of public security video image analysis systems (hereinafter referred to as "analysis systems"). acceptance.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. 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 46344.1-2025 Public Security Video Image Analysis System - Part

3 Terms, Definitions and Abbreviations

3.1 Terms and Definitions The terms and definitions defined in GB/T 46361-2025, GB/T 46363-2025, and

GB/T 46344.1-2025, as well as the following terms and definitions, apply. In this document.

3.1.1 object detection Detect and measure targets in video images according to certain rules.

3.1.2 The system identifies target attributes (such as color, category, etc.) in video images according to certain rules.

3.1.3 event detection Events in video images are detected according to certain rules.

3.1.4 target feature vector Using video image analysis techniques, vectors are extracted from video images to describe the features of a specified target.

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