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GA

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

GA/T 646-2006

Replacing GA/T 646-2006

**General technical requirements for matrix switcher used in
security video surveillance system
(English Translation)**

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Foreword

This standard is drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces GA/T 646-2006 "video security monitoring system matrix switching equipment common technical requirements", compared with the main the changes are as follows.

- modified the standard name;
- modified scope (see Chapter 1, Chapter 1 of the 2006 edition);
- modified normative reference documents (see Chapter 2, Chapter 2 of the 2006 edition);
- modified the term "matrix switching device", "matrix concatenation" (see Chapter 3, Chapter 3 of the 2006 edition);
- remove the term "video switch" "video group switch" "video tour switch" "video sync switch" "screen character display (OSD) "" Alarm Status "" Matrix Networking "(see Chapter 3 of the 2006 edition);
- the term "splicing", "windowing", "roaming" (see Chapter 3);
- delete the composition (see version 4.1 of 2006);
- modified the classification (see 4.1, 2006 4.2.1);
- the classification was removed (see 2006 4.2.2);
- the type of interface was deleted (see 2006 version 4.3);
- Added product code and logo (see 4.2);
- modified the appearance (see 5.1.1, 2006 edition 5.1.1);
- modified mechanical strength (see 5.1.3, 2006, 5.1.3);
- modified functional requirements (see 5.2, 2006, version 5.2);

- modified performance requirements (see 5.3, 2006 edition 5.3);
- modified power requirements (see 5.4, 2006 5.4);
- modified climate and environmental adaptation requirements (see 5.5, 2006 5.5);
- modified the electromagnetic compatibility requirements (see 5.6, 2006 5.6);
- modified security requirements (see 5.7, 2006 5.7);
- modified the test method (see Chapter 6, 2006, Chapter 6);
- Added inspection rules (see Chapter 7);
- modified signs, packaging, transportation, storage (see Chapter 8, 2006 edition of Chapter 7).

1 Scope

This standard specifies the classification, product code and identification of the security surveillance video monitoring matrix equipment, technical requirements, test methods, inspection regulations Then, logo, packaging, transportation, storage and other requirements.

This standard applies to matrix devices in security surveillance video surveillance systems. Other products with video surveillance matrix function can refer to use.

2 Normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article Pieces. For undated references, the latest edition (including all modifications) applies to this document.

GB/T 191 packaging and storage icon GB/T 2828.1 Sampling inspection procedures Part 1. Batch inspection sampling plan for retrieval by quality limit (AQL) GB/T 2829 Periodic inspection count Sampling procedures and tables (for inspection of process stability) Television video channel test method GB/T 3659-1983 GB 4208-2008 enclosure protection class (IP code) Information technology equipment - Radio disturbance limits and methods of measurement GB 9254-2008 Test method for reliability of general purpose television equipment GB/T 12322-1990 Safety and safety equipment - Environmental suitability requirements and test methods GB/T 15211-2013 Safety precautions - Safety equipment - Safety requirements and test methods GB/T Video security monitoring - Digital video recording equipment GB/T GB/T 28181-2016 public safety video surveillance network system information transmission, switching, control technical requirements GB/T 30148-2013 Safety and alarm equipment - Electromagnetic compatibility immunity requirements and test methods Specification for Text Image Text Marking

3 Terms and definitions

The following terms and definitions apply to this document.

Matrix device matrixswitcher can achieve a specific input channel with a specific output channel connected to the device, support multiple channels (audio) frequency signal input/output, which video the output contains at least 4 non-network video signals.

Matrix concatenation matrixcascade Two or more matrix devices connected through the series, to achieve video, alarm, control signal transmission.