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

GA/T 882-2010

Replacing GA/T 882-2010

Technical requirements for trial synchronous recording system

数字化审讯(讯问)记录系统技术要求

(English Translation)

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1 Scope

This standard specifies the system structure, requirements, test methods, inspection rules, marking, packaging, transportation and store.

This standard applies to interrogation synchronous audio and video recording systems.

2 Normative references

The following documents are essential for the application of this document. For dated references, only the dated version applies to this article pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 191-2008 Graphical signs of packaging, storage and transportation GB/T 2423.57-2008 Environmental Testing of Electrical and Electronic Products Part 2: Test Methods Test Ei. Shock Impulse Response Spectral synthesis GB/T 2423.58-2008 Environmental testing of electrical and electronic products - Part 2: Test methods Test Fi. Vibration mixed mode GB/T 2423.102-2008 Environmental testing of electrical and electronic products - Part 2: Test method test. Temperature (low temperature, high temperature)/Low air pressure/vibration (sinusoidal) combined GB/T 4857.5-1992 Drop test method for packaging and transportation packages GB/T 5080.7-1986 Equipment reliability test - verification test of failure rate and mean time between failures under the assumption of constant failure rate test plan GB 9254-2008 Radio Disturbance Limits and Measurement Methods for Information Technology Equipment GB 16796-2009 Safety requirements and test methods for safety precaution and alarm equipment

3 System structure

The interrogation synchronous recording and video recording system is composed of acquisition, transmission, display and playback, storage and control equipment.

- a) The acquisition equipment consists of auxiliary equipment such as color cameras, pickups and brackets;
- b) The transmission equipment consists of auxiliary equipment such as optical fiber, network cable, video cable, audio cable, communication control cable;
- c) Display playback equipment consists of a display or monitor and speakers;
- d) The storage device consists of devices such as CD-ROM and hard disk;
- e) Control equipment consists of camera and pickup control equipment, power supply and communication interface.

4.1 Appearance requirements

The appearance of the system should be neat and tidy, and the surface should be free from obvious defects in the production process.

4.2 Structural Requirements

The operation of switches, buttons and knobs should be flexible and reliable, the parts should be tightened without loosening, the connectors should be able to be connected reliably, the indications should be correct, and the layout should be properly arranged.

management, easy to operate.

4.3.1 Acquisition equipment

4.3.1.1

It has the function of real-time acquisition of interrogation sound and image. Real-time and clear capture of the voices and background of the interrogator and the person being interrogated Sound, real-time and clear collection of frontal mid-range and place panoramic images of the person being interrogated, including ambient temperature, humidity and time.

4.3.1.2

A digital camera with a resolution of 720P or 1080P should be used, and the minimum illumination is 0.5lx.

4.3.1.3

Cardioid directional pickups are used, the sensitivity is $-40\text{dB}\pm 3\text{dB}$, and the frequency response is 50Hz~15kHz. The signal-to-noise ratio is greater than 65dB, the dynamic range is greater than 96dB.

4.3.1.4

The audio sampling frequency of the system is 16kHz and 16bit quantization.

4.3.2 Transmission equipment

4.3.2.1

Between the acquisition equipment and the control equipment, the network cable, video cable, audio cable and signal control cable should be used to connect the equipment.

To ensure the accuracy of sound, image quality and control signal.

4.3.2.2

Using MPEG-4, H.264, AAC and other audio and video real-time compression network video server technologies, the resolution of a single screen is greater than or equal to at 704 pixels x 576 pixels, and the transmission code stream is greater than or equal to

512kbit/s, it should be able to realize the webcasting, audio-text interaction, and communication of the interrogation process.

Ask about the selection of live scenes.

4.3.3 Display playback device

4.3.3.1

Real-time and clear display of the frontal mid-shot and the site panorama image of the person being interrogated, including ambient temperature, humidity and time.

4.3.3.2

The audio and video of the interrogation can be played back clearly. The sound quality should not be distorted, and the sound playback should be synchronized with the video.

4.3.3.3

The resolution and interface of the display and playback equipment shall match those of the acquisition and control equipment.

4.3.3.4

It has the function of switching between single-screen and dual-screen display.

4.3.4 Storage Devices

4.3.4.1

It has the functions of real-time recording of interrogation audio and video with dual optical drives and real-time automatic storage of hard disk. There should be more than two video inputs, two independent audio input, the encoding standard is MPEG-4, H.264, AAC. The resulting audio and video files can be played in a universal player.

4.3.4.2

With clock correction function.

4.3.4.3

It has the function of setting the title content of the case number, name, name of the interrogator, name of the person being interrogated, and the location of the interrogation. Inside the title After the content is set, the title is automatically generated and superimposed on the video screen.

4.3.4.4

It has the function of calculating the hash value of the recorded and stored audio and video data, and combines it with the audio and video data in the form of a separate file.

stored together.