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

YY/T 1488-2025

Replacing YY/T 1488-2016

**Traditional Chinese medical device - Tongue features
acquisition device**

中医器械 舌象信息采集设备

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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 replaces YY/T 1488-2016 "Tongue Image Information Acquisition Equipment". Compared with YY/T 1488-2016, the only changes are structural adjustments and rewriting. Aside from the logical changes, the main technical changes are as follows:

---The description of the scope (see Chapter 1, Chapter 1 of the 2016 edition) has been changed;

---Working conditions have been removed (see 4.1 in the 2016 version);

---Requirements and test methods for special spectra have been added (see 4.1.4 and 5.1.4);

---The requirements and test methods for irradiance have been revised (see 4.1.5, 5.1.5, and

5.4 in the 2016 version);

---The requirements and test methods for ultraviolet radiation irradiance have been revised (see 4.1.6, 5.1.6, and

5.5 in the 2016 version);

---The structural requirements have been changed (see 4.3, 4.4 in the 2016 version);

---The functional requirements and testing methods have been changed (see 4.4, 5.4, and

1 Scope

YY/T 1488 standardises the camera rig behind computerised tongue diagnosis. It specifies

the requirements for tongue image information acquisition equipment and describes the corresponding test methods. Tongue inspection is one of the four classical diagnostic methods of Chinese medicine, and turning it into data means fixing the things that make an image comparable: illumination, colour reproduction, geometry and repeatability. Without those controlled, two devices photographing the same tongue produce different colours and therefore different conclusions. It belongs to the YY/T series on traditional Chinese medicine instruments alongside the electroacupuncture and cupping standards. For a manufacturer of tongue diagnosis systems, including those feeding AI analysis software, this is the Chinese standard the equipment has to meet.

YY 9706.102 Medical Electrical Equipment - Part 1-

2.General Requirements for Basic Safety and Basic Performance (Parallel Standard. Electromagnetic Compatibility) Requirements and Tests

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 9706.1 Medical electrical equipment - Part

GB/T 14710 Environmental requirements and test methods for medical electrical appliances

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Tongue images are acquired through an imaging device [digital camera or image sensor], and then stored, compared, and analyzed to achieve the desired results. Devices that provide auxiliary diagnostic information about tongue appearance.

3.2 A light source used to provide the lighting environment required for the operation of equipment.

Note. Hereinafter referred to as "light source".

3.3 resolution The minimum interval between two adjacent lines that can be identified.

3.4 Color reproduction The ability of an imaging device to accurately reproduce the colors of the photographed object.

3.5 distortion The distortion of the image pair caused by the inconsistency between the

magnification in the central region and the magnification at the edges is usually manifested as absolute distortion or relative distortion. To express.

Note. Distortion mainly refers to a series of factors including optical distortion caused by optical lenses, mechanical errors, electrical errors, and display errors of display devices. The total distortion is represented by the radial distortion component. During imaging and display, the radial distortion component plays a major role, while the tangential distortion component and the radial distortion component...