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**INDUSTRY STANDARD OF THE
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**Calibration Specification for Medical Diagnostic X-ray
Non-invasive Current Meters
(English Translation)**

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Introduction

This specification based JJF 1001-2011 "common measurement terms and definitions", JJF 1059.1-2012 "measurement is not Determine the evaluation and expression ", JJF 1071-2010" National Calibration Specifications writing rules "establishment.

For non-invasive medical diagnostic X-ray apparatus of the current situation, the development of this specification reference JJF 1075-2001 "clamp meter calibration norms" and JJG598-1989 "DC digital ammeter (Trial)." the specification for the first time to develop.

Non-invasive medical diagnostic X-ray calibration current specification

1 Scope

This instruction applies to non-invasive medical diagnostic X-ray current device, as well as non-intrusive current timetable and versatile X Calibration X-ray tube current measuring section ray detector.

2. References

This specification refers to the following documents.

JJG598 DC digital ammeter (Trial) JJG744 diagnostic X-ray radiation JJF 1075 clamp meter calibration specification for dated references, only the dated edition applies to this specification; undated reference documents Member, the latest edition (including any amendments) applies to this specification.

3 terminology and units of measurement

3.1 Terms

3.1.1 X-ray tube current X-ray tubecurrent Current electron beam against the X-ray tube target surface.

[IEC 60601-1-3:2008,3.85]

3.1.2 Non-intrusive measurement of non-invasivemeasurement Obtain measurements of X-ray tube current values by measuring the non-access current probe signal.

3.1.3 intervention measure invasivemeasurement to obtain an X-ray tube current values measured by access to appropriate current instrument.

3.1.4 Non-intrusive current probe non-invasivecurrentprobe Referred to the probe, used as probe clamp meter, using electromagnetic induction principle, measure the current signal.

3.2 units of measurement Title X-ray tube current unit. mA; symbol. mA.

4 Overview

Medical Diagnostic X-ray non-intrusive current device (hereinafter referred to as the current

instrument) is a non-invasive way to measure the use of X-rays Ray machine tube current instrument for measuring the X-ray exposure of the current machine. Current meter according to the principle of electromagnetic induction to detect Exposure tube current signal induced current signal acquisition and processing, calculation of the current value. Current instrument is mainly handled by the probe signal Means for processing terminals and other components.

5 Metrological characteristics

5.1 Current Range