

ICS 01.040.19

CCS J04



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

GB/T 12604.11-2015

**Non-destructive testing - Terminology - Terms for X-ray digital
radioscopic testing**

无损检测 术语 X射线数字成像检测

Issued on: February 4, 2015

Implemented on: October 1, 2015

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China;
Standardization Administration of China**

Table of Contents

Foreword

1 Scope

About this edition

Classification and status

How a Chinese national standard is set out

About this English translation

Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules. The standard non-destructive testing by the National Standardization Technical Committee (SAC/TC56) and focal points. This standard was drafted. Chongqing University, Chongqing Industrial Equipment Installation Group Co., Ltd., Guangdong Steel Products Co. earnings-chuen, Lanzhou Ricky Godwin and control technology company, Chongqing really measured Technology Co., Ltd., Chengdu Arima Detection Technology Co., Ltd. Yantai Branch detection equipment Limited The company, China Academy of Engineering Physics, Beijing Solid Hong Technology Co., Ltd. Suzhou Industrial Park Road Green Technology Co., Ltd., CITIC shares have Dicastal Ltd., Beijing Aeronautical Manufacturing Technology Research Institute, Guangdong Province Special Equipment Inspection and Research Institute. The main drafters of this standard. Duan Xiao reef, Yan Weiming, Wang Jue, according to Tsang Cheung, Sun Zhongcheng, Lu Yanping, Tangliang Ming, Wang Jianhua, Sun Zhaoming, Xiao Yongshun, Victoria Road Tao, Liu Jun, Song Zhen Fang, LI Xu Feng. Terminology for nondestructive testing X-ray digital imaging detection

1 Scope

GB/T 12604.11-2015 is the Chinese national standard on non-destructive testing - terminology - terms for x-ray digital radioscopic testing, in the field of generalities, terminology and documentation. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 4 February 2015 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 October 2015. Classification: ICS 01.040.19, CCS J04. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken

from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard defines the term X-ray digital imaging detection. This standard applies to X-ray digital imaging detection.

2 Terms and definitions

2.1 Ray digital imaging digitalradiography Ray digital detector receives the output digital image and a radiation imaging method for image processing.

2.2 Ray digital imaging system digitalradiographysystem Ray digital imaging apparatus for generally includes ray source detector, an image processing system.

2.3 Real-time imaging real-timeimaging When image acquisition speed is greater than or equal to 25 frames/s referred to as real-time imaging.

2.4 Still detection motionlessdetection Workpiece relative to the ray source and detector to detect kept stationary state.

2.5 Motion detection motorialdetection Ray source and detector to detect movement relative to the workpiece.

2.6 Digital Detector digitaldetector The radiation is converted to an electrical signal and outputs a digital signal device, such as a linear array detector, flat panel detector and digital image enhancement And so on.

2.7 Line array detector lineardetectorarray LDA Digital detector consists of a straight line or an arc detection unit arranged composition. Relative motion detector line array need to take advantage of the object Forming a digital image of the detection region.

2.8 Flat panel detector flatpaneldetector FPD Digital detector plane by the press detection unit arranged composition.

2.9 Image intensifier imageintensifier Rays into visible light by the scintillator, photomultiplier way to obtain high-brightness visible image on the output screen of the device.