

Research on CT Scanner - Model SOMATOM Definition AS

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Abstract: This topic aims to conduct a detailed study of the Computed Tomography (CT Scanner) system – Model SOMATOM Definition AS. The context of the topic arises from the increasing demand for clinical diagnosis, requiring more modern medical equipment to enhance the quality of healthcare services. The objective of the research is to analyze the structure and operating mechanism of the SOMATOM Definition AS in order to evaluate its performance and accuracy in diagnosing pathologies. The method combines theoretical and experimental research, referencing current international scientific publications and conducting clinical validation on patient samples. The expected results will assess the technical performance and practical application of this CT Scanner, making a significant contribution to the field of medical imaging.

Keywords: Computed tomography scanner, CT Scanner, SOMATOM Definition AS, Experimental study, Clinical diagnosis