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Direct capture digital radiography devices convert the incident x-ray energy directly into an electrical signal, typically using a photoconductor as the x-ray absorber, and send the electrical signal to a TFT and then to an ADC. The ADC signal goes to the computer for processing and viewing ( Figure 1-6 ).

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2. Digital radiography. With digital radiography no cassettes are used. The x-rays hit a permanently placed set of hardware, which then sends the digital information directly to a readout mechanism. Indirect DR: x-ray photons hit a scintillator layer, which then releases light photons

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that then hit an active matrix array that digitises the signal

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Digital Radiography: An Introduction for Technologists ...

Introduction Historically, digital radiography referred to specialized modalities that produced digital images Digital images can be numerically processed This is not possible in conventional radiology. Digital images can be easily transmitted through networks and archived Since the early 1990s, Digital Radiography has grown to include Computed Radiography(CR) and ' true ' Digital Radiography(DR) or Direct Radiography. 5

digital radiography - SlideShare

Abstract The aim of this article is to explain the basic principles of digital radiography, and to discuss the intra- and extra-oral imaging systems currently available. There are two main types of digital sensors available. One is based on charge coupled device technology and the other consists of phosphor storage plates.

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Digital radiography : an introduction (Book, 2011 ...

INTRODUCTION TO DIGITAL RADIOGRAPHY Digital radiography is a relatively new technology that is becoming common place in veterinary medicine. It is been used in human medicine for

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over 20 years and has been thoroughly tested and proven. There are many advantages to digital radiography beyond the excellent image quality (Figure 2-20) which include:

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