

Advantages of Digital Radiographic (X-Ray) Imaging

Dose reduction

The radiation dose required to create a digital radiograph is usually much less than that required to develop a film based image.

Image manipulation

The software that is available for digital radiographs can suppress information that is of lesser importance to the diagnosis and lead to a clearer image for the clinician to read. In other words, the image has better diagnostic value. Cone beam volumetric tomography can produce a 3-D image. Film based radiographs cannot be manipulated to provide this type of image.

Time

At this office, the image is displayed immediately post exposure on a 22" chairside monitor; the patient may see the image before the operator! No developing or drying time is required.

Storage and Communication

Images can be stored in the patient's electronic chart and easily referred to for a radiographic history. Images can be transferred to other offices for consultation or treatment via e-mail, CD-ROM or DVD. Better communication means better service for the patient.

Environmentally friendly

No film is required and no processing chemicals are used with digital images; there is nothing to dispose of – no lead or chemicals.