

We conducted a preliminary evaluation of a digital fluoroscopy system for general applications, including gastrointestinal imaging, myelography, myelography, and genitourinary fluoroscopy. The installation is designed primarily for digital fluoroscopy and radiography of the gastrointestinal tract but is also being evaluated for a variety of fluoroscopic procedures, including venography, myelography, arthrography, and genitourinary procedures.

INTRODUCTION The development of digital equivalents of conventional radiography and fluoroscopy is critical if digital image acquisition and management are to be extended beyond the current digital imaging modalities (computed tomography, magnetic resonance imaging, nuclear medicine, ultrasound, and digital angiography) (1–4). The image intensifier selected for our installation has a 33-cm (13-inch) nominal field size with an electronic zoom feature that provides additional field sizes of 23 cm (9 inches) and 17 cm (7 inches). In this article, we describe the system, its operation, and its parameters and display conventional images paired with digital images obtained in various clinical applications