

Let there be light...



And there is CIT

Manufacturer's of World's Most Advanced Digital
Computed Radiography Imaging Technology

PRODUCT SHEET

EPRI - Reference Film for Qualification of Radiograph Film Digitisation System

Introduction

The need for Quality Control is emphasised throughout any production system. Measurement and traceability of equipment performance, and assurance of repeatability and accuracy, are paramount in establishing correct working practices. Checking the performance of a Radiographic System for Quality Assurance purposes has historically been an arduous task, with differing standards and multiple test gauges and exposures.

CIT's Film Digitisation Reference Film incorporates the required test elements into a **Single simple-to-use** unit, allowing the evaluation of Film Digitisation systems for industrial radiography in accordance with **ASTM E1936-03(2007)** and **ASME V Article 2** International Radiographic Testing standards as well as monitoring the quality of the chosen system.

Regular check with Reference Film and maintenance of the system will ensure **long-term stability** of the digitisation system over its lifecycle.

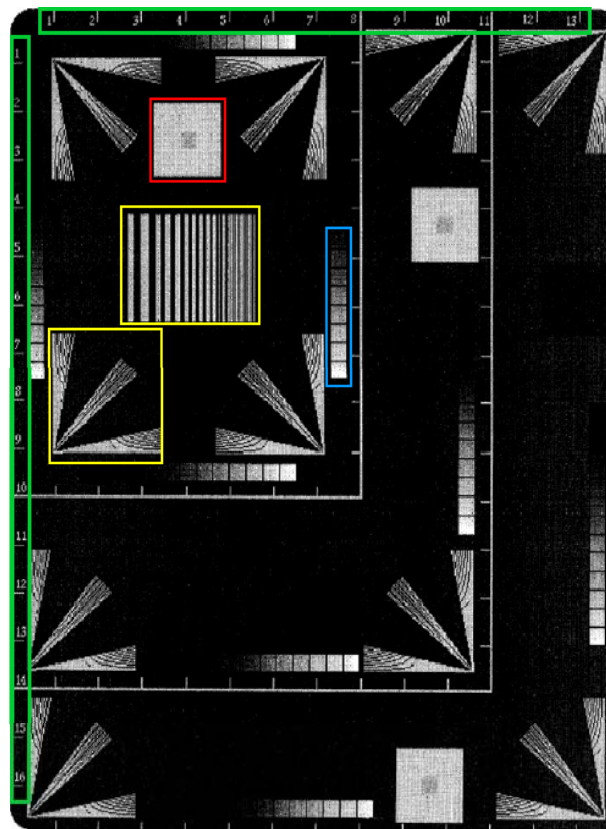
Basic System Performance Measurement

CIT's Film Digitisation Reference Film provides a set of targets suitable for evaluating and quantifying the performance characteristics of a radiographic digitizing system.

There are several factors affecting the quality of a digital image, including the spatial resolution of the system, geometrical unsharpness, scatter and contrast sensitivity (signal/noise ratio). There are several additional factors (for example digitising scanning parameters) that affect the accurate reading of displayed digital images.

The Reference Film for Radiographic Film Digitisation System provides the following quality indicators for determining its performance characteristics:

- Contrast Sensitivity
- Dynamic Range
- Spatial Resolution
- Spatial Linearity



Reference Key

- Spatial Linearity Targets
- Spatial Resolution Targets
- Dynamic Range Targets
- Contrast Sensitivity Targets

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