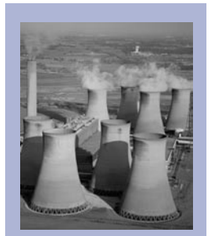
Oil & Gas

Aerospace



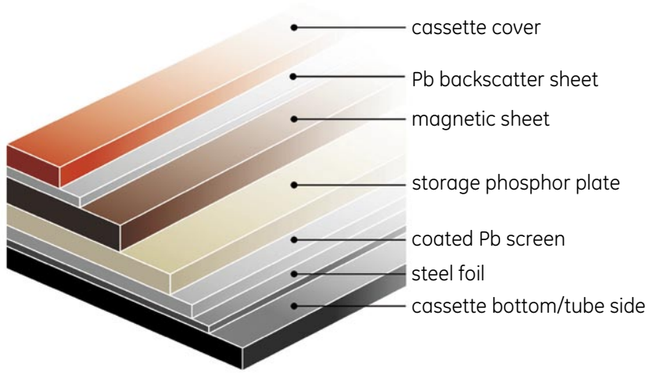
Power Generation

NDT Cassettes

GE Inspection Technologies cassettes are specially designed for NDT applications. The higher radiation energy used in industrial X-ray makes the use of standard medical cassettes impossible. Therefore, the cassettes have user-selectable built-in lead sheet front filters of 125 µm (0.005") and 250 µm (0.010"), and a standard 150 µm (0.006") lead sheet at the back side to avoid back scatter.

A magnetic sheet ensures equal pressure over the entire imaging plate, eliminating the risk of unevenness that influences the image quality during exposure.

The lead sheets are covered with a protective layer to avoid contamination of the IPC during handling.



Technical Specifications

Laser spot size	100 µm and 50 µm (0.0039" and 0.0020")
Bit depth	12 bit
Labeling	CE (93/42 EEC), UL(1950), CUL
Dimensions	73 cm x 45 cm x 141 cm (28.8" x 17.7" x 55.5")
Weight	210 kg (463 lbs)
Operating temperature	15 - 30 °C (59 - 86 °F)
Humidity	15 - 75 %
Plate format	35 cm x 43 cm, 20 cm x 25 cm, 15 x 30 cm (14" x 17", 8" x 10", 6" x 12")

GEInspection Technologies.com

GE
Inspection Technologies

Computed Radiography

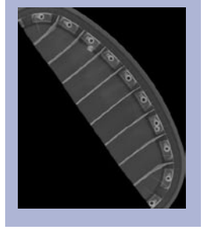
CR^X Tower

Computed Radiography Scanner

- Increased productivity through faster scanning speeds
- Primary applications in the Oil & Gas, Power Generation and Aerospace industries
- High levels of accuracy and detection due to high scan resolution
- In partnership with Rhythm software, ideal for on-stream inspection of pipelines in a wide range of industries
- Particularly suited to inspection of multi-thickness and composite components

Digital | Eddy Current | Film | Testing Machines | Ultrasonics | X-ray

Automotive



Military

Power Generation

New CR^X Tower. Best-in-Class Performance. Sure Savings.

Faster scanning speeds, higher scanning resolution and greater throughput are just three of the benefits offered by the new CR^X Tower. It incorporates all of the acknowledged advantages of computed radiography (CR) over film radiography, in terms of faster exposures, wider latitude, fewer retakes and overall reduced materials and labor costs. Additionally, the new scanner is the first CR system to achieve scan resolution, for certain formats, of up to 50 micron or 20 pixels/mm.

The scanner provides a reliable, cost-effective solution for in-house and mobile applications. It's easy to use, easy to maintain, and it ensures dependable, repeatable system operation.

Match the Performance to the Application

The new CR^X Tower assures superb performance in any application. You can now match the scanner's performance to your quality requirement and enjoy fast speed and throughput – a 90% exposure time reduction when compared to film for some applications! You can use longer exposure times with unmatched defect recognition. Add to this the choice between the sensitive standard imaging plate and the sharp premium plate, and there's no question the CR^X Tower now performs best in class in any application.

In order to prevent false defect detection, the CR^X Tower does not manipulate the original image. Instead, it maintains data integrity. After the original image is saved, the operator can execute additional image manipulation to increase defect recognition.

Advanced Workflow Tools

The CR^X Tower can now be equipped with tools to enhance workflow and to better integrate the system into the existing infrastructure. These tools include our Mobile ID Station, Barcode Reader, Intelligent Cassette, and intelligent Wall Thickness measurement software.

GE's Mobile ID Station can be programmed by the workstation and loaded with data from the database. Operating in either a production environment or in the field, the ID Station can transfer the data into the cassette which is loaded with a phosphor plate. This avoids human error when transferring image and data to the workstation.

Mobile ID Station

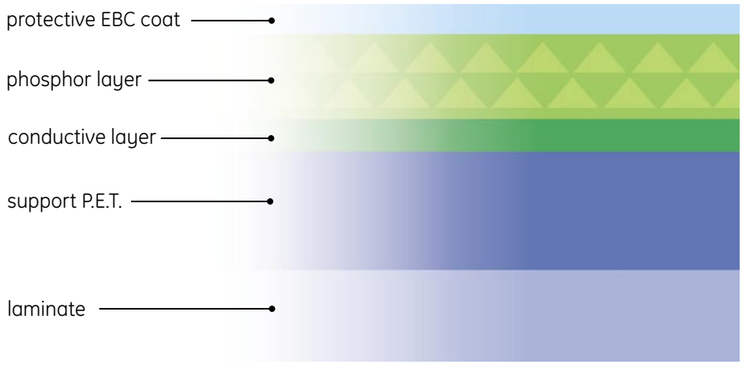
Imaging Plates

Special phosphor imaging plates let you select from the very fast Standard IP, resulting in D7* film IQI detection, or IP Extra for D4* film type IQI detection. The new CR^X Tower digitizes 8" x 10" (20 x 25 cm), 14" x 17" (35 x 43 cm) and 15 x 30 cm (6" x 12") at a resolution of 100 micron and 50 micron.

Your images will be captured on phosphor plates designed for us in unforgiving NDT environments - with special protection layers that prevent scratches and damage.

** IQI detection might vary depending on the application*

- **Fewer Retakes**
  High tolerance for varying exposure conditions and a greater freedom in the selection of the exposure dose.
- **Dose Reduction**
  In many cases, Imaging Plates allow the visualization of all diagnostic information with only one exposure.
- **Long Lifetime**
  Imaging Plates are protected by an EBC (electron-beam-cured) top coat. This results in plates with superb protection from mechanical wear and extensive immunity to chemical cleaning solutions.
- **Image Quality**
  The chemical composition of the image plate storage phosphor material ensures optimum performance. The material has high absorption efficiency, excellent homogeneity and short response time to ensure high sharpness.



Make-up of phosphor plates

Agfa imaging plates

Above and below - a range of plate sizes can be used to capture images