FCR Portal Imaging provides images with high contrast and sharpness for excellent image quality with medically charged particle radiation therapy (portal localization) imaging.

Fujifilm combines its patented image processing with a portal cassette (called PC) for outstanding images and the highest resolution available for digital portal imaging. Fujifilm's PC cassette is a digital replacement technology for conventional screen/film imaging systems, making it possible to go digital with existing analog equipment.
FCR Portal Imaging Cassettes

Portal imaging cassettes and Imaging Plates (IPs) image the treatment field and the position where a cancer is being treated. By providing the Radiation Oncologist a localized portal image, appropriate adjustments and treatment setup can be confirmed. Portal images can then be compared to routine radiographs for monitoring irradiation field displacements.

The Fujifilm PC cassette is designed to be used with FDA-cleared radiation treatment linear accelerators (LINAC) or Cobalt 60 units. Featuring a 0.5mm lead (Pb) screen layer to improve contrast and a unique compression plate to keep the IP firmly in contact against the lead screen, portal images have improved sharpness and excellent image quality.

The PC cassette can be used with all current FCR readers, including the XG5000, XG2000, Carbon X, Carbon XL and most legacy FCR systems. No new software modifications to the FCR reader are required. The PC cassette is coupled with Fujifilm's ST-VI Imaging Plate (IP) and is available in three sizes:

- 14x17" (35x43cm)
- 14x14" (35x35cm)
- 10x12"

Note: Imaging Plate (IP) is sold separately

Fujifilm supports two types of treatments:

Simulation
Simulation images make it possible to take radiographs during the treatment plan and are exposed with conventional diagnostic x-rays using standard CR cassettes and IPs.

Localization (Portal Imaging)
Portal radiographs are used to confirm the irradiation field. Portal images can be produced using Fujifilm’s PC cassette with standard IPs.