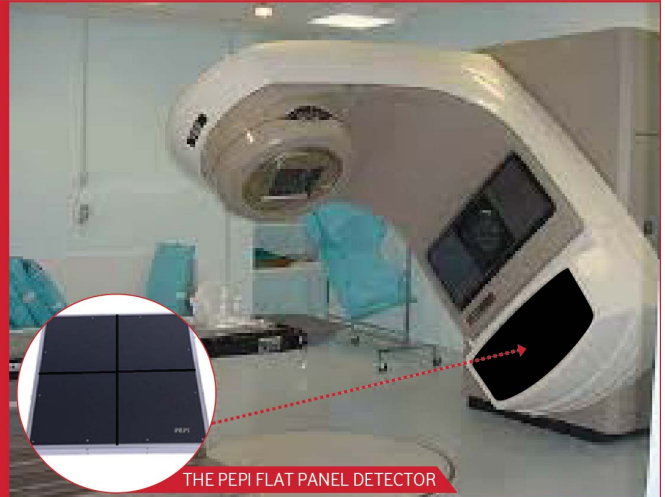


# PEPI™ - PATIENT ELECTRONIC PORTAL IMAGER

## ACHIEVING NEW DIMENSIONS IN IMAGE VIEWING TECHNOLOGY

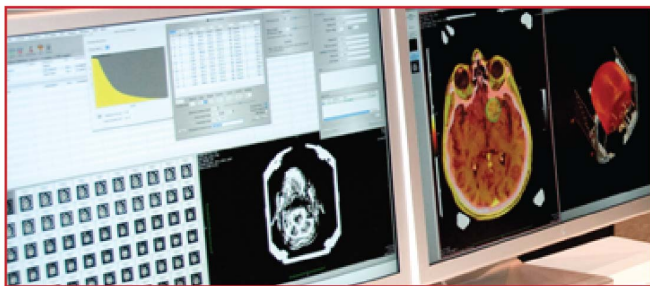
The PEPI Flat Panel MV X-ray Detector represents the most advanced amorphous silicon sensor panel available. The PEPI provides image acquisition with the highest achievable SNR (Single to Noise Ratio).

- A unique Image Viewing System providing critical patient positioning prior to radiation therapy treatment
- Optimizes treatment field relative to the treatment area as well as field shape and size
- Compares Orthogonal portal images with Digitally Reconstructed Radiographs (DRR) in performing IGRT
- Four degrees correction (3 translations and rotation) or Six-degrees correction (with equipped table) insures best positioning to match treatment planning position



## UPGRADE YOUR OLDER LINEAR ACCELERATOR

### Image Acquisition Software:



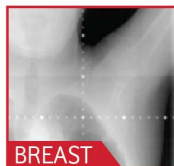
- Intuitive MS Windows® based software
- Offered as a stand alone or network version
- Patient Database Management
- Single and double exposure Image
- Import/Export DICOM-3 images
- Overlays and filters for optimal image visualization



CHEST



WHOLE BRAIN



BREAST

### Specifications and Physical Characteristics:

**Radiation Detection Unit:** Flat Panel – Amorphous Silicon active TFT

**Flat Panel Active Area:** 16" x 16"

**Pixel Matrix:** 1024 x 1024

**Pixel Pitch:** 400  $\mu$ m

**Speed:** up to 30 fps

**Energy Range:** up to 16 MV

**Dose rates:** up to 600 MU/min

**Minimum Dose per Image:** 1 MU

### Image Performance:

**Resolution (MTF):**  $f1/2 = 0.5$  mm

**Signal to Noise Ratio (DQE):** 0.8%

**Minimum Size Wire Detection:** 0.5 mm diameter at isocenter

**Dark Current:**  $<1$  pA/mm<sup>2</sup>

### Mounting Device Motions:

**Vertical Movement Range:** 70 cm

**Lateral Movement Range:** 20 cm

**Longitudinal Movement Range:** 40 cm

**Position Reproducibility:** within 2 mm in each direction

**Time for extension/retraction:** less than 10 seconds



GLOBAL CANCER TECHNOLOGY

16776 Bernardo Center Dr. #203,  
San Diego, CA 92128

☎ 858-451-6173

✉ [info@globalcancertechnology.com](mailto:info@globalcancertechnology.com)