

# Real Solutions

in Electronic Portal Imaging



**THERAVIEW**  
REAL-TIME RADIATION THERAPY DIGITAL IMAGING  
**TECHNOLOGY**



# TheraView, along with its TargetCheck software, is the high-resolution Electronic Portal Imaging solution for hundreds of facilities worldwide.

The foundation of TheraView is based upon three key features: **Verification, Accuracy and Flexibility.**

**B**y bringing radiotherapy images live and online, TheraView provides Radiation Oncologists and Therapists with a more precise, effective alternative to time-consuming and inconvenient port film. More importantly, the improved image quality can greatly enhance treatment and patient positioning accuracy.

## Increase in Successful Patient Outcomes

TheraView's advanced features and high resolution CCD camera allow for superior patient positioning and accuracy. As the beam delivery is improved, an increase in successful patient outcomes can be anticipated.

**The TheraView Portal Imaging System's true value can be attributed to its flexibility.** TheraView's user-friendly software allows physician access via a web browser for remote viewing using electronically-stamped approvals on acquired images. TheraView is also isocentrically mountable to ANY brand of linear accelerator. And the TheraView Information Core System (TICS) can be used to network and link all support units, including Record & Verify, CT Simulator, Treatment Planning System, and CR scanner, to one system.

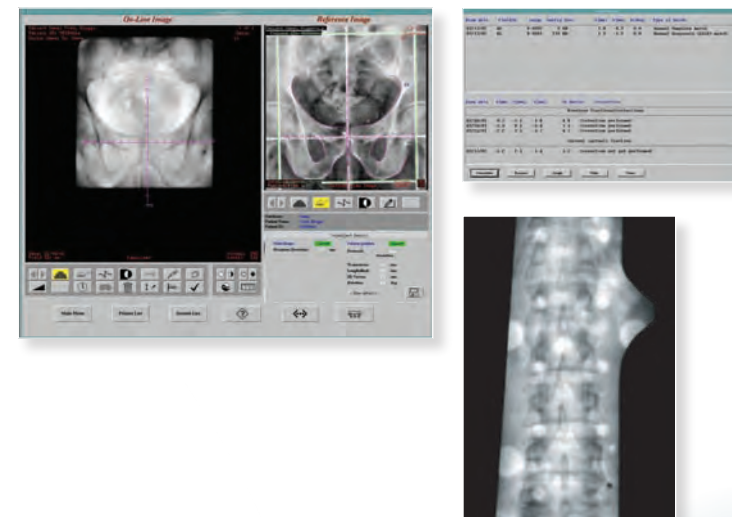


## TheraView is Compatible With All Major Brands of Linear Accelerators

Comparison of TheraView's CCD technology and conventional aSi		
Features	TheraView	Other EPIDs
Cost of ownership over a 6 year period	~50% less than aSi	~100% more than TheraView
Linear accelerator compatibility	Any brand	Brand specific
Stand-alone online imaging system	Yes	No
Additional licenses required for DICOM connectivity	No	Yes
Warm-up time	None	15-45 minutes to stabilize power
Image residues / ghosting	No	Yes
Positioning verification	Immediate	Delayed
Typical detector life	3-5 years	12-24 months
Installation	Zero downtime	Downtime

“TheraView offers us a complete imaging system that eliminates having to use separate software for portal image viewing, analysis, archiving, image guided radiation therapy and other image management applications.”

Dan Odero, Chief Medical Physicist,  
Raleigh Regional Cancer Center  
(Picture not shown)



**TargetCheck** is customized software that allows for stereoscopic images to be fused with pretreatment, digitally reconstructed radiographs.

- Immediate verification of patient position
- Remote viewing via web browser
- Auto field placement detection
- Physician approval electronically stamped
- Image field edge detection
- Daily QC for MLC leaf tracking
- Qualifies for CPT 77421 reimbursements

Contact us today for a complimentary live web-based demonstration!



### Advanced Treatment Verification Features:

- Online reference image comparison
- IMRT online field/patient position verification
- Pre-treatment, low dose imaging
- Positioning, field alignment and block/MLC shaping verification
- Double exposure
- Treatment movie loop sequence
- Magnification
- Image enhancement
- Distance measurement
- Image annotation
- Networking capabilities
- Printing Options
- DicomRT
- File Management

### Technical Specifications

#### System Components

Imaging detector with video camera  
Camera controller and video acquisition unit  
State-of-the-art workstation  
Modem/Network for Tele-Diagnostics  
Cooled CCD Image detector

#### Detector Specifications

Scintillator screen size 400 X 400 mm  
<0.8 LP/mm resolution (binned mode)  
F<sub>50</sub> ~0.35 SNR 340  
Contrast detectability of ~1%  
Camera resolution 1024x1024 pixels  
Image matrix optimized for display 512 V x 512 H x 24 bit  
DICOM RT/ Image compatible  
IEC 61217 compliant

#### Power Consumption

115/230V, 50/60 Hz, 300 Watts maximal

#### Approvals

510(k), CSA, IEC 1060 1-1, UL544, CE, MOHW

#### Optional System Components

TheraView Information Core System (TICS) for backups, archiving and control of multiple systems  
Dye sublimation thermal printer  
Standard postscript and HP laser printer  
Film digitizer for simulator image input  
Flatbed scanner 12 bit, 304.8 x 431.8 mm (12"x17")  
24/40 Gbyte digital tape archive  
Remote control  
Independent review workstation  
Background HTTP server for programming and review  
16 bit/32 bit for dosimetry



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