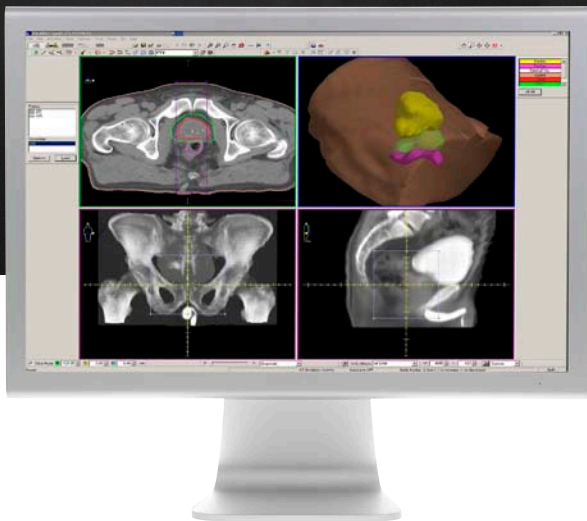


Focal™

FREEDOM FROM BOUNDARIES
FREEDOM FROM BOUNDARIES





Focal4D™ provides a comprehensive application that addresses the issues of intrafractional motion. Compatible with all major 4D scanners, Focal4D's suite of capabilities supports visualization and utilization of 4D image sets for delineating structures and reviewing treatment options. With support for respiration-correlated CT (RCCT) images, its robust toolset includes multiple viewing options, such as cine and variable window formats, and automated processes for creating internal target volumes.

Solutions provided by Focal4D

Simplify 4D Data Management

With 4D imaging comes a significant increase in the amount of data used for planning. Focal4D includes an import/export application that enables you to see all pertinent information from the DICOM header, visualize the image type, and allow modifications to the image set. Focal 4D supports import and export of RCCT and non-RCCT images.

Detailed Visualization Over Time

With the ability to view multiple 4D image sets over time, you gain more detail about the patient's progress. Focal 4D provides a simple interface for navigating large volumes of image data. Specific features include:

- Layouts supporting 4D image sets
- Creation of MIP, MinIP, and Average images
- Definable grid to determine tumor motion

Accelerate Contouring Workflow

Focal4D puts large amounts of 4D data to work for you. Contouring tools save time, while templates and libraries allow you to automate preferences for contour appearance, naming, and methods. Specific features include:

- Cine view with contouring
- Contouring on sagittal and coronal images
- Automatic ITV creation
- Boolean creation

Extend Your Reach

Have completed treatment plans at your fingertips – in your office, in the planning room, or even at a satellite center. Focal provides all members of the treatment team with convenient access to planning capabilities and patient data. A fully integrated product suite, Focal includes image fusion, patient contouring, virtual simulation, and plan review modules. Windows-based and easy to use – Focal enables you to extend efficient treatment planning beyond your primary clinic location.

Optimize Your Delineation Choices

Fast, accurate image fusion tools let you leverage the diagnostic capabilities of any standard DICOM imaging modality to ensure that planning structures have the best possible delineation options. The Mutual Information algorithm of Focal delivers quick and accurate alignment of all available imaging modalities with a single click. Review registration results using powerful image blending and robust checkerboard visualization tools. As an option, you can also manually manipulate results.

Simplify Planning

Advanced contouring capabilities accelerate identification of planning volumes and adjacent anatomy. Create contours effortlessly with automated 3-D contouring tools, including 3D auto-margin, auto-threshold, and patented auto-segmentation. Innovative interpolation algorithms enable you to quickly create planning structures from as few as two contours. Create and manipulate structures with flexible drawing and editing tools, such as a multi-variable size paintbrush.

Gain Time, Efficiency, and Accuracy

Advanced visualization tools and fully integrated CT simulation capabilities save staff time while improving image quality and planning accuracy. Automated tools simplify isocenter definition and rapid beam placement and manipulation. Dynamic 3D visualization of patient anatomy and beam parameters, powerful real-time DRR rendering techniques, and multiple customizable views ensure efficient access to all required images and planning perspectives.

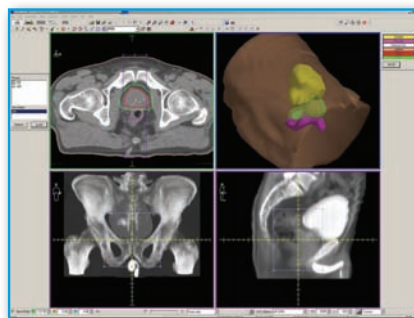
Make the Best Treatment Choices

With Focal, you can compare multiple treatment plans – even those from different planning vendors – to choose the best possible course of treatment for each patient. A flexible layout environment, rich graphical displays, and a suite of analytic tools make it easy to compare plans. A flexible display of transverse, sagittal, and coronal images includes comparative reference doses for easily quantifying and evaluating dose coverage trade-offs. With the choice of colorwash, isofill, and isodose lines; multiple contour display modes; and absolute/percentage dose values, you can customize your views to meet your needs.



Everything You Need, Wherever You Are

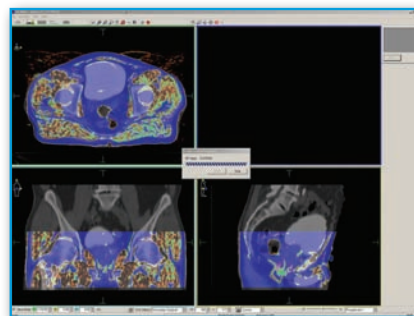
From fusion and contouring to simulation and plan review – gain access to comprehensive planning and review workflow wherever you're working.



▶ Virtual Simulation

The integrated FocalSim® application performs contouring, beam placement, block/port definitions, and real-time DRRs. Multiple customizable views ensure efficient access to all required images and planning perspectives. Features include:

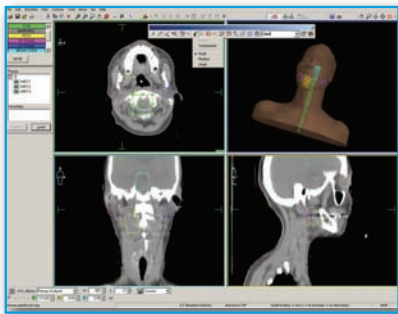
- Complete CT simulation at time of scanning
- Virtual fluoroscopy with auto isocenter positioning
- Definable setup and scan reference locations
- Beam's Eye View with DRRs and contour display to aid in beam placement
- Maximum Intensity Projection DRRs for optimal bone/soft tissue differentiation
- 3D display of patient surface with skin projection
- Mouse-controlled gantry, collimator, and couch positions
- Customizable window/level presets for primary, secondary, and DRR images



▶ Image Fusion

AutoFusion® enables you to align CT images with CT/MR/PET images for CT simulation and/or treatment planning utilization.

- Multiple customizable fusion display options
- Interactive registration
- Automatic registration using a mutual information algorithm



▶ Patient Contouring

Create and expand structures quickly with our comprehensive array of drawing and editing tools:

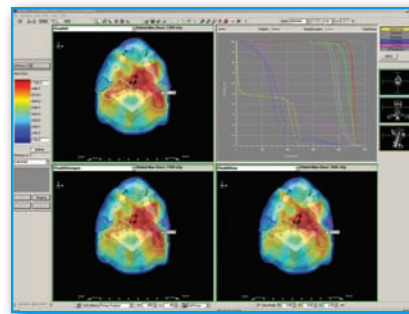
- Manual draw, auto segmentation of soft tissue, and multi-structure/multi-slice auto-contouring
- Slice-to-slice duplication and interpolation
- Variable 3D auto-margin generation with structure combination and variable inclusion and exclusion margins
- Ability to contour on either primary or secondary image set
- 3D contouring for creating volumes using any transverse, sagittal, or coronal view with real-time updates on analogous views
- Drawing assistant to draw and edit contours
- Bifurcated structure recognition
- Unlimited structure overlap
- Density assignment with CT override
- Standard shapes
- Predefined user preferences



▶ DICOM Connectivity

Perform CT Simulation at any Focal station, physician's workspace or directly at the simulator. Network DICOM import/export provides:

- Support for multiple automated laser marking vendors
- Station-to-station data access, regardless of primary location



▶ Plan Review

Focal offers a wide array of review tools with rapid offline access for plan analysis and approval, allowing you to:

- Review any image-based plan
- Review multiple plans for the same patient, including plan addition and plan subtraction
- Review dose distribution on any transverse, sagittal, or coronal plane
- Customize isodose levels
- Instantly find hot and cold spots using the unique Structure Reference Dose
- Compare dose at a point for all plans simultaneously with Dose Cursor
- Formulate the display as desired with a multitude of dose display options
- Review DVH for all structures and plans
- Capture data in the beam spreadsheet
- Record plan approval and comments



Focal

FREEDOM FROM BOUNDARIES



Boost Productivity For More Users

Use CMS.Direct Access distributed planning and remote access capabilities to extend access to your planning applications. With convenient access to planning functionality and patient data over the Internet, clinicians can more easily share resources and expertise. Now you can put improved productivity at clinicians' fingertips – regardless of where they're working.



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Americas

1.800.878.4CMS (4267)
support@cmsrtp.com

Australia / New Zealand

+61-2-9209-4507
callcenter-australia@cmsrtp.com

China / Pacific Rim

+86-215058-1041
callcenter-china@cmsrtp.com

Europe / Middle East / Africa

+49-761-88188-0
callcenter-europe@cmsrtp.com

Japan

+81-120-009-198
callcenter-japan@cmsrtp.com

Bring Focal into Your Clinical Practice

Our treatment planning software enables the practice of evidence-based medicine. Uniquely, we improve clinical efficiency by optimizing treatment, planning and workflow processes and redefining information management to enhance personalized patient care.

- Automated planning tools
- Dose accuracy and flexibility
- Intuitive IMRT planning
- Comprehensive planning capabilities
- Remote access capabilities

Excellence in Customer Satisfaction

Elekta employs the largest full-time staff of dedicated Radiation Treatment Planning professionals in the industry. When you select our solutions, you gain access to our entire research and development and customer support team:

- PhD and MS physicists
- PhD mathematicians
- CMDs and RTTs
- Professional software and hardware engineers

For more information, contact your local Elekta representative.

www.cmsrtp.com

Corporate Head Office:

Elekta AB (publ)
Box 7593, SE-103 93 Stockholm, Sweden
Tel +46 8 587 254 00
Fax +46 8 587 255 00
info@elekta.com

Regional Sales, Marketing and Service:

North America
Atlanta, USA
Tel +1 770 300 9725
Fax +1 770 448 6338
info.america@elekta.com

Europe, Latin America,
Africa, Middle East & India
Tel +44 1293 544 422
Fax +44 1293 654 321
info.europe@elekta.com

Asia Pacific
Hong Kong, China
Tel +852 2891 2208
Fax +852 2575 7133
info.asia@elekta.com



Human Care Makes the Future Possible