

VA SAN ANTONIO, TX  
PO# 671-B40111

Qty	Description
1	<p><b>Elekta Infinity™ System</b></p> <p>Elekta Infinity™ is the definitive Volumetric Modulated Arc Therapy (VMAT) treatment solution. Volumetric Modulated Arc Therapy (VMAT) combines software and hardware innovations that allow delivery of Volumetric Intensity Modulated Radiation Therapy which enables simultaneous and dynamic movement of MLC while rotating the gantry in combination with varying the dose rate, gantry speed and or collimator angle to deliver a highly conformal dose. This advanced delivery capability is further enhanced by the inherent Elekta X-ray Volume Imaging System (XVI) included with this system.</p> <p>Elekta Infinity consists of a dual modality digital accelerator, providing a comprehensive range of both x-ray and electron energies to satisfy the requirements of external beam radiotherapy. The Elekta Infinity Digital Accelerator offers an unrivalled choice of up to three different x-ray energies and up to 9 electron energies. With a low isocentric height (124cm), the Elekta Infinity Digital Accelerator is designed for optimum clinical usability.</p> <p>Elekta Infinity is remote system diagnostic ready and will function with the optional Elekta IntelliMax™ service monitoring and support system. Elekta IntelliMax™ service monitoring and support system is enabled through software and is available during the original system warranty period or through purchase of an Elekta Advanced Service Agreement.</p> <p>The Precise Table provides smooth, quiet operation for positioning the patient during clinical procedures. It comprises a vertical lift mechanism, couch base and the control system.</p> <p>Elekta Infinity includes the iViewGT™ MegaVoltage Portal Imaging System and the XVI (X-Ray Volume Imaging System) for KV based 3-D volumetric imaging.</p>
1	<p><b>Elekta Infinity System Cover Set</b></p>
1	<p><b>PreciseBEAM™ VMAT</b></p> <p>PreciseBEAM™ Volumetric Intensity Modulated Arc Therapy providing continuous Arc Modulation delivery. This license enables simultaneous dynamic movement of one or more of the following parameters:</p> <ul style="list-style-type: none"><li>• MLC</li><li>• Diaphragms/Jaws</li><li>• Gantry speed</li><li>• Dose rate</li><li>• Collimator angle</li></ul> <p>During delivery, the speed of the gantry and dose rate can be automatically adjusted to change the intensity of the radiation beam and vary the MU delivered per degree of movement.</p>
1	<p><b>Combined Interdigitation &amp; CVDR license</b></p> <p>Optional license providing Interdigitation and Continuously Variable Dose Rate (CVDR) functionality on MLCi2 and Agility heads only.</p> <p>This license is applicable to customers who are purchasing a linear accelerator with the Integrity treatment control system. This license is for MLCi2 and Agility systems only. The license is valid for customers requiring Interdigitation with an MLCi2/Agility head and dynamic/VMAT delivery licenses.</p>
1	<p><b>VMAT Treatment Planning System Manual</b></p>

- 1 **Agility Kit**  
Agility - fully integrated 160 leaf Beam Shaping Device with fine resolution leaves (0.5 cm wide), Treatment Control System Rack Cabinet and Integrity R3.0 software.

Agility is designed to meet the stringent needs of the rapidly evolving field of high resolution stereotactic radiation therapy and volumetric arc therapy (VMAT), providing high conformance beam shaping for these advanced delivery techniques. It also supports conventional and electron based radiation techniques.

The excellent, clinically demonstrated, physical characteristics of Agility coupled with its ability to interdigitate, produce real clinical advantage when delivering highly conformal, dose escalated beams close to critical structures.

This Kit includes the following components:

- Agility Beam Shaping device
- Agility head covers and touchguard
- Treatment control system Rack cabinet
- Network Security Solution
- UPS
- Agility manual set
- Integrity R3.0 software media kit
- Beam Mu Dose Module
- Basic service tools

- 1 **Agility - Linac Parts**

- 1 MRT 16731, HEAD COVER & TOUCH GUARD, WHITE

- 1 6 MV Low Energy Photon

- 1 10 MV Mid Energy Photon

- 1 18 MV High Energy Photon

- 1 4 MeV Electron Energy

- 1 12 MeV Electron Energy

- 1 15 MeV Electron Energy

- 1 18 MeV Electron Energy

- 1 20 MeV Electron Energy

- 1 6 MeV Electron Energy

- 1 10 MeV Electron Energy

- 1 **U.S.A. Electron Flatness**  
Electron flatness according to U.S.A. standards, optimized at 100 cm.
- 1 **Standard Set of Aperture Plate Electron Beam Applicators**  
Field sizes:  
- 6 x 6 cm, SSD 95 cm  
- 10 x 10 cm, SSD 95 cm  
- 14 x 14 cm, SSD 95 cm  
- 20 x 20 cm, SSD 95 cm  
Fitted with spring loaded touch guard, coded end frames and electrical connection to linear accelerator latch mounting system enables easy and rapid attachment.
- 1 **Factory Data Match**  
The option of matching one or more new Elekta® machines to each other and/or to an Elekta® machine already installed on a customer site.  
The match is carried out during production of the new machines and the match is made to the factory data recorded in production for the existing Elekta® machine.
- 1 **Wedge Factor Match**  
The option of matching the Wedged profiles and Wedge output factors of one or more new Elekta® machines to each other and to an Elekta® machine already installed on a customer site.  
  
The match is carried out during production of the new machines and the match is made to customer data supplied from the existing Elekta® machine.
- 1 **SYNERGISTIQ Monitor kit**  
Specification for Extender/Receiver and cable for a remote monitor.  
Required for sites who use SYNERGISTIQ with a remote monitor in the treatment room.
- 1 **SYNERGISTIQ Software License**  
Enables the XVI functionality to support advanced workflows available with SYNERGISTIQ.  
  
SYNERGISTIQ integrates MOSAIQ and Elekta Synergy into a consolidated and synchronized user interface that brings together, in a coordinated manner, the various systems that are required for Image Guided Radiotherapy.
- 1 **Software Media Pack, SYNERGISTIQ Clients**
- 1 **40kW kV generator**  
The Elekta Synergy® System XVI has an integrated 40kW kV generator which provides multiple setting control via the XVI software. Acquisition parameters are configured within the Preset protocol function in the XVI software which is user configurable. The generator and X-ray tube have been optimized for the 3D VolumeView™ imaging, as well as radiographic type exposures for PlanarView™ and MotionView™.
- 1 **XVI R6.0 Software License**  
The advanced XVI license enables efficient streamlined IGRT workflows, including one touch VolumeView™, and fast automated image registration.  
  
This license also includes;
- .....

- start/stop MotionView™
- Annotation overlay during MotionView™
- Import master RPS data to XVI (Distributed Imaging)
- HU specification
- optimised presets for dose reduction
- data anonymisation

The advanced Intrafraction Imaging functionality is optional with this software.

The advanced registration functionality such as 3D Automated Seed Matching, Critical Structure Avoidance and Symmetry (4D IGRT) are also optional with this software.

Please note that the SYNERGISTIQ configuration requires additional hardware and software to be ordered from BASS.

**1 Control System hardware for XVI R5.0**

The XVI control system is a high specification dual processor PC which supports all aspects of the IGRT process including 2D, 3D and 4D kV image acquisition, VolumeView™ reconstruction, and analysis using a suite of advanced registration functionality.

**1 Software License Collation XVI 5.0**

The XVI software offers a fully integrated solution for advanced Image Guided Radiation Therapy techniques on the Elekta Synergy® and Elekta Infinity™ range of machines. 2D, or optional 3D and 4D kV images can be acquired with the patient in the treatment position, at the point of treatment on the Elekta Digital Accelerator. This is mandatory XVI Software. MRT 20261 is also required.

**1 Software License Collation XVI**

The XVI software offers a fully integrated solution for advanced Image Guided Radiation Therapy techniques on the Elekta Synergy® and Elekta Infinity™ range of machines. 2D, or optional 3D and 4D kV images can be acquired with the patient in the treatment position, at the point of treatment on the Elekta Digital Accelerator.

This is mandatory XVI Software  
Compatible with Desktop 7.01 or higher

**1 Intrafraction Imaging License**

The Intrafraction Imaging license supports the ability to acquire kV images during an MV treatment field delivery, and lets you:

- Make a preset to acquire MotionView™ images for a specified time and then move directly into a VolumeView™ acquisition.
- Make a preset that lets XVI acquire a VolumeView™ during conformal, IMRT, or VMAT MV deliveries. You can examine this data offline to measure intrafraction movement.
- Make a preset to do Intrafraction VolumeView™ and registration during dual arc procedures.

Both 3D and 4D VolumeView imaging will be possible at the same time as MV treatment.  
XVI 5.0 includes MV scatter correction as image quality of kV images can decrease during Intrafraction imaging.

**1 PlanarView™ - License**

The PlanarView™ license enables the acquisition of static 2D kV images on the XVI system. Images are displayed and can be compared to a reference image. PlanarView™ thus provides similar functionality to existing orthogonal MV portal images for initial patient set-up. The X-rays of PlanarView™ are produced using kV energy range which results in high quality images at very low doses.

**1 MotionView™ License**

2D fluoroscopic-like imaging

MotionView™ Imaging module helps locate targets that move on a high frequency basis. This becomes particularly critical with the use of small treatment fields or in PreciseBEAM® IMRT application. Like fluoroscopy, MotionView™ allows evaluation of patient motion while the patient is in the treatment position for optimum treatment delivery. Developed to address Intrafractional organ motion, MotionView™ allows the clinician to visualize patient organ motion for evaluation of field coverage for optimum treatment delivery. Even when a device such as the Elekta Active Breathing Coordinator™ is being employed, MotionView™ is useful for monitoring other motion in the thorax or upper abdomen.

#### 1 VolumeView™ License

3D Volumetric Imaging. Using Elekta 3D volume mode (VolumeView™), clinicians can visualize soft tissue detail in any area of the body.

Elekta VolumeView™ provides volumetric 3D data sets with submillimeter isotropic resolution acquired with the patient in the treatment position.

The system can acquire a complete 3D volume in a single revolution with reconstruction taking place simultaneously with rapid registration against the CT treatment plan image. This allows for optimization of the treatment plan and correction for target shifts due to organ motion and deformation.

The imaging dosage necessary to obtain a VolumeView™ image can be varied depending on the level of contrast required. For prostate imaging, a larger degree of contrast is required to differentiate similar soft tissues in addition to complications caused by low transmission and high scatter, while a VolumeView™ image in the head and neck region would require a lower dose.

#### 1 Symmetry™ License

4D Acquisition, In line Reconstruction and Registration

Symmetry™ provides acquisition and in line reconstruction of 4D volumetric data, utilizing unique patented technology for sorting each projection image into a phase based bin. This sorting occurs by reviewing the moving anatomy within the projection images and calculating a respiratory trace directly from the internal anatomy. No external surrogates are required in this process.

Following reconstruction, Symmetry™ includes an optimized workflow for registration purposes. Each reconstructed phase of the respiratory cycle is matched to a 3D reference image automatically. Following registration, the user can review the results quickly and efficiently due to an optimized software view. Correction vectors are automatically calculated to position the tumor in either the average or the exhale position.

#### 1 Segmental VolumeView™/ MotionView™

With XVI R4.5.1 and above provides the user with the ability to interrupt and restart VolumeView™ acquisitions using the Function Key Pad.

With XVI 5.0 provides the user with the additional ability to interrupt and restart MotionView™ acquisitions using the Function Key Pad.

Supports KV acquisition during breath-holding procedures by allowing the acquisition of partial volumes for each separate breath hold, with subsequent reconstruction a single image.

#### 1 Critical Structure Avoidance

Registration of a Clipbox and Shaped Registration Region of Interest.

Critical Structure Avoidance allows registration of two separate areas of anatomy, utilizing both the Clipbox and the Shaped Registration Region of Interest. XVI software will calculate the relationship of both areas of anatomy to the proposed correction vectors and alert the user if the target has moved closer to the critical structures due to anatomical changes. The user can then choose to select a compromise between the two areas, or send the patient for re-planning.

#### 1 3D Shaped Registration Region of Interest

The 3D Shaped Registration Region of Interest can be generated from any structure imported from the Treatment Planning System, or created manually using tools in the software.

This allows generation of a 3D registration volume which conforms to anatomical structures.

1 **Automated DICOM CT export license**

An optional automated DICOM CT Export license for XVI reconstructed images.

This DICOM export license allows the user to send post reconstruction XVI Images to a configurable destination automatically upon acceptance of the XVI Images.

1 **DICOM RT Image Export**

Manual DICOM Export of PlanarView™ Images.

This license supports the manual export of PlanarView™ Images into the MOSAIQ software.

Within MOSAIQ 'Setup Intelligence' functionality, images can be automatically matched using curve, point manual or automatic grey value registration.

1 **Auto DICOM RT Image Export**

Automatic DICOM Export of PlanarView™ Images

This License supports the automatic export of PlanarView™ Images into the MOSAIQ software, using a DICOM RT Image Standard.

Within MOSAIQ 'Setup Intelligence' functionality, images can be automatically matched using curve, point manual or automatic grey value registration.

1 **DICOM CT export license**

This license enables the customer to export the VolumeView™ Images acquired with the XVI as DICOM CT Images to an external system such as a third party treatment planning system.

1 **XVI Archive for XVI R5.0**

1. Ability for a user to archive the Images of one or more patients onto a LTO4 tape
  2. Ability to retrieve an individual patients Images from a previously created archive
  3. Ability to backup the C: and D: drives of the XVI system onto a LTO4 tape
  4. Ability to perform an incremental backup of the C: and D: drives onto a LTO4 tape
  5. Ability to restore the C: and D: drives of the XVI system from a previously created backup
- External tape drive archive, restore and back-up system.

Kit contains:

- LTO4 tapes (x2) each with 1.6TB capacity compressed
- Serial Attached SCSI (SAS) tape drive
- XVI Archive and Back-up software

Compatible with XVI Mark 5 cabinet and PR0070 LTO4 tape cartridges.

1 **Extra Collimators**

Provision of additional XVI collimators for imaging.

Includes:-

VolumeView cassettes: L10, M2, L2

1 **XVI TFT Monitor**

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Specification for high resolution 17' Flat Panel Monitor.  
 The TFT monitor will fit neatly into the linac control area.  
 It is used to display the high resolution images acquired on XVI, from PlanarView™, MotionView™, and VolumeView™.

**1 iViewGT™ Infinity Hardware**  
 Retractable arm for iViewGT™

iViewGT™ provides:

- Rigid and fully retractable slimline detector for maximum accessibility and clearance.
- Large, square active area and wide lateral and longitudinal movement accommodating all patient anatomies.
- Automatic and manual arm movement for efficiency of use.
- Fully interlocked safety features for operator confidence and patient comfort.

**1 XVI Hardware**

The imaging capability of Elekta Infinity System enables the clinician to take full advantage of IMRT dose delivery without the need for implanted target surrogate markers, due to the high visualization capability of all soft tissue structures, target volume and critical structure position. Fast, automated registration of the VolumeView image with the reference CT planning data allows non-invasive image guided treatments.

**1 iViewGT™ PC running release 3.4 SP2**

High performance PC hardware for use on iViewGT™ imaging systems.  
 Microsoft Windows XP Professional SP2 operating system and iViewGT™ release 3.4 SP2 software pre-installed.

**1 Remote Retraction of the iViewGT™ detector**

This kit allows Remote Retraction of the iViewGT™ detector from the Function Key Pad.

**1 R3.4 S/W License for iViewGT™ Portal Imaging System**

Software license for the iViewGT™ portal imaging system

iViewGT™ R3.4 software provides:

- Full image acquisition capability for iViewGT™ customers
- Enhanced image display options offering superior structure visualization. (Enabled with the CLAHE (Contrast Limited Adaptive Histogram Equalization) algorithm)
- Extensive networking capabilities through DICOM
- Automated DICOM export of acquired images
- Sophisticated tool set for efficient image acquisition
- Confident tracking of sophisticated treatments such as IMRT, with fast continuous synchronized imaging
- Enhanced printing for display of images
- Export image log for trend analysis facility

**1 DICOM 3.0 software interface for image transfer**

The international standard interface protocol for network transfer of medical images.

**1 iView™ IMRT Verification Software License**

This software expands existing iView™ functions to verify multiple segment beams for IMRT. The iView™ image acquisition is triggered automatically and the image taken depends on whether the user selects single, multiple or movie image.

**1 MRT 7261,iVIEWGT,XRD,1640 AL,MV,ROHS,DETECTOR,PANEL**

**1 Template Matching Software License**

The template matching option enables the user to compare the portal image with a nominated reference image for any set-up error.

The set-up error is measured by matching visible anatomy and the field edge on the referenced image with the portal image. The user can move the templates to provide an image displacement.

**1 Patient Auto Select Software License**

This enables the prescription selected on the Linac to automatically select or create that patient record on iViewGT™ / iViewC™ using the iCom-Vx protocol. In addition, images will automatically be acquired and stored in the iViewGT™ / iViewC™ database without further operator intervention.

**1 Software License Image Approval**

This allows the user, assigned with the 'review' permission, to approve or disapprove any image within iViewGT™ or iViewC™.

**1 External Portal Imaging Interface**

A mechanism where user and system events in iView™ are sent to an external customized program. Could be used as an interface to third party systems or for analysis of image data.

**1 Laser back pointer assembly**

Comprising:

- Fiber optic laser back pointer (Class 2 laser)
- Mechanical mounting kit
- Laser warning label

For customers requiring a laser back pointer who are purchasing the iViewGT™ as a factory fit or upgrade.

**1 Flat panel monitor for iView**

**1 Precise Table or Pedestal Pit Kit**

This kit provides the necessary fixings, floor boards and template to install a Precise Table into a custom built Pit or a modified Pedestal Pit.

**1 Independent X/Y movement of table top**

To save time, in reaching the desired position, this kit allows the X/Y brakes to be released independently.

**1 IBEAM® evo Extension H&N**

The IBEAM® evo Extension H&N is designed to support the patient's head and neck region and extends off the end of the IBEAM® evo Couchtop by 400 mm. The small profile (omega shape) optimizes the access to the treatment area, facilitating the use of complex and non coplanar beam angles.

**1 IBEAM® evo Extension 415**

The IBEAM® evo Extension 415 is designed to support the patient's head and neck region and extends off the end of the IBEAM® evo Couchtop by 415 mm.

**1 IBEAM® evo Extension 650**



The IBEAM® evo Extension 650 is designed to support the patients upper body and extends off the end of the IBEAM® evo Couchtop by 650 mm, thus allowing for treatment of the prostate in very tall patients.

- 1 **IMKM**  
The In-room Monitor and Keyboard function provides the operator with access to all clinical and service functions available at the control console from inside the treatment room.  
Comprising:  
- Cable switching connectors for attaching the in-room monitor to the treatment control system.
- 1 **In-room Monitor, Keyboard and Mouse**  
Local Procurement Specification
- 1 **20" Flat panel control room monitor**
- 1 **Remote Automatic Table Movement License**  
Remote Automatic Table Movement License with either XVI or MOSAIQ.  
This license enables the user to make the translation correction movements remotely and automatically at the Precise Table. This movement can either take place following a registration as part of an on-line VolumeView™ Imaging workflow or the Precise Table can be moved remotely and automatically to coordinates entered into MOSAIQ.  
It should be noted that if customers have XVI, they will only be able to have this functionality when using on-line image workflows. This feature is only available with MOSAIQ when the Linac does NOT have XVI imaging capability.
- 1 **Table ASU License**  
In addition to normal linac ASU, the user is able to separately request the auto setup of the table isocenter from inside and outside the room.
- 1 **IntelliMax™ Intelligent Agent**  
This License provides only the IntelliMax™ Intelligent Agent license. Any provision of services relating to the use of data collected by the Agent (via the IntelliMax™ Enterprise) should be negotiated as part of the Service Contract between the Customer and the BU/distributor.  
IntelliMax™ Intelligent Agent requires a dedicated PC. Provision of this PC must be negotiated between the Customer and the Elekta BU/Distributor. A specification of the PC can be obtained from your Elekta representative.  
IntelliMax™ Intelligent Agent also requires a direct internet connection to the Agent PC opening secure port 443 (https).
- 1 **Set of manuals**
- 1 **Order two sets of pre defined terminated cable kits**  
Pre installation treatment room and Inter bay terminated cable kits
- 1 **Customer Interface Terminal Board**
- 1 **Turbo Starter Kit for Linear Accelerators**  
Ancillary equipment required for the installation and maintenance of any Precise Digital Accelerator.  
Comprising:  
- Rotary vacuum pump

- Turbo molecular pump attachment for rapid pump down times and higher roughing vacuum

**1 General Function Key Pad**

The Function Key Pad provides the following features:

- MV Start, Interrupt and Terminate
- LED's to indicate radiation on / off status
- Linac Assisted Setup (ASU) – facilitating automatic gantry and diaphragm rotations
- Table ASU – facilitating automatic table translations and isocentric setup
- Imaging ASU – facilitating automatic remote retraction of the iViewGTTM detector

This Function Key Pad has been ergonomically designed to ensure comfort during prolonged ASU periods.

**1 Synergy® cable reeling**

**1 Agility Service Tool**

Tool to support maintenance of the Agility beam shaping device.

**1 Agility Upgrade Cable Kits**

Treatment room and Interbay terminated cable kits for Elekta delivery systems upgrading to the Agility Beam Shaping Device only.

**1 iViewGT™ Warranty**

**1 Applications Training for Standard Therapy on the Desktop**

The 2-day Standard Precise Desktop Course (travel time inclusive) provides training for 4 Radiation Therapists in the clinical use of the Precise Desktop Digital Linear Accelerator. Successful participants will be equipped with the knowledge and skills to operate the system effectively. The course does not provide training in the principles or techniques used in Radiation Therapy.

**1 Applications training for iViewGT™**

The 3-day iViewGT™ training course (travel time inclusive), provides training for 4 radiation therapists in the clinical use of the iView™ Imaging system. Successful participants will be equipped with the knowledge and skills to operate the system effectively. The course does not provide training in the principles or techniques used in radiation therapy.

**1 XVI Applications Training**

The 4-day XVI training course (travel time inclusive) provides training for Radiation Therapists in the clinical use of the X-ray Volume Imaging portion of the Elekta Digital Accelerators. Successful participants will be equipped with the knowledge and skills to operate the system effectively. The course does not provide training in the principles or techniques used in Radiation Therapy, CT, or Diagnostic Imaging. This course is given at the customer site for a maximum of 4 users.

**1 Aperture Plate Electron Beam Applicator 25 x 25 cm**

Fitted with spring loaded touch guard, coded end frames and electrical connection to linear accelerator. The X-ray diaphragms are then set automatically to the optimum position. A unique hook and latch mounting system enables easy and rapid attachment.

Name	Qty
<b>IQ Server Software</b> Foundation for the Elekta Integrated EMR/practice management system. Includes patient master index (PMI), internal & external directories, system utilities, configuration libraries, and barcoding capability. Required for any MOSAIQ module. Requires MS SQL.	1
<b>MOSAIQ RO</b> Electronic Medical Record for Radiation Oncology  Per concurrent RO clinician (machine/RO). Provides the ability to import and manage DICOM RT plans and images to expedite the generation of complex RO prescriptions and treatment calendars; connect to linacs and imaging devices to support pre/post treatment validation, review and analysis.	1
<b>Connectivity to Elekta VMAT</b> Interface license that supports VMAT	1
<b>SYNERGISTIQ (Elekta Bundle)</b> Consolidates and synchronizes MOSAIQ and XVI.	1
<b>MOSAIQ IGRT Connectivity for Elekta</b> Connectivity kit including the RTD and Elekta delivery platform, interface to Elekta MLC/IMRT, interface to ViewGT electronic portal imaging device and connectivity to the XVI including volumetric imaging.	1
<b>ON-SITE TRAINING DURING REGULAR WORKING HOURS - 4 DAYS</b> On-site training visit by Elekta trainer focusing on agreed-upon goals, format, and agenda. Training duration is 4 business days and is conducted during regular working hours.	1