

GAMMAMEDPLUS iX, 3/24 iX AFTERLOADERS FEATURE SHEET

The GammaMed*plus*™ iX HDR/PDR afterloader with its iX control software offers compatibility with hospital networks and enhances the high dose rate (HDR) and pulse dose rate (PDR) brachytherapy experience. Commercially available for over 50 years, the GammaMed*plus* iX is the fifth generation in a reliable and respected line of afterloaders.

Intelligent

KEY FEATURES OF GAMMAMEDPLUS iX:

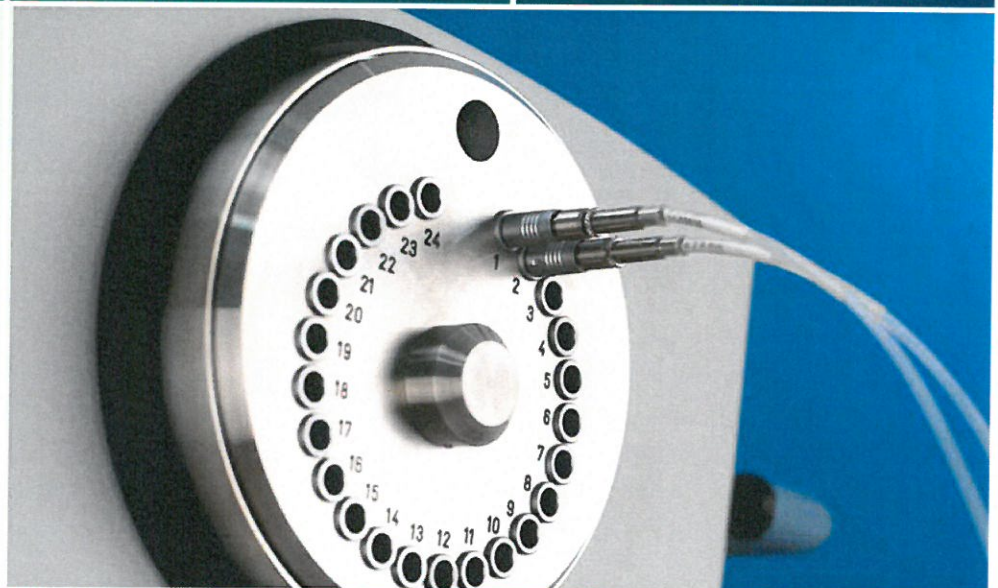
- Fixed length treatment distance aims to help reduce errors associated with applicator-to-afterloader connection
- Unique applicator end test to verify applicator connection integrity and treatment length
- Distal-to-proximal source movement
- Fully integrated with BrachyVision™ treatment planning system* and ARIA® oncology information system* network.
- 3/24 iX unit (3 channel)** allows easy and cost-effective entry into HDR for typical treatments with minimal capital expenditure.
- Upgradeable to 24 channels with little downtime to expand usage to all body sites
- Wide range of treatment accessories suitable for CT imaging

Contact your Varian BrachyTherapy representative to discuss these and other key features of GammaMed*plus* iX.

* Version 11 and above

** PDR is not available for the GammaMed*plus* 3/24 model.

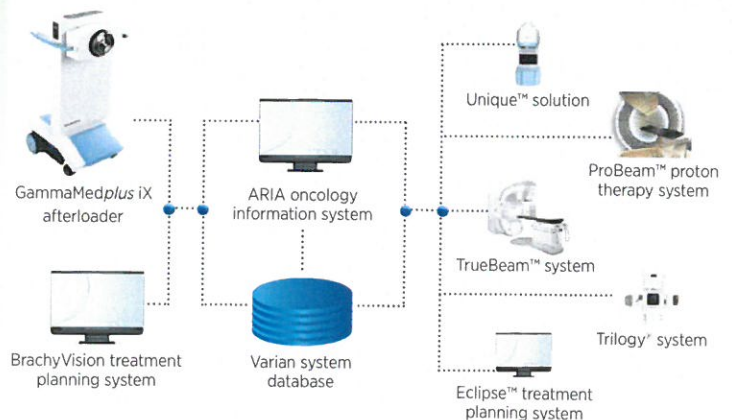
Integrated



Intuitive

BRACHYTHERAPY INTEGRATION

1. Patient scheduled in ARIA
2. Treatment plan created in BrachyVision and scheduled in ARIA
3. Afterloader console pulls treatment plan from ARIA
4. After patient treatment, afterloader console returns the treatment record to ARIA
5. Afterloader console updates the appointment status
6. RT Summary and Patient Summary display the treatment record and dose in ARIA



COMPREHENSIVE BRACHYTHERAPY TREATMENT

FEATURES

3.5 mm long active source encapsulated into the tip of a braided cable*

- Source can be installed at an activity of up to 15Ci.**
- Certified for up to 5,000 transfers meeting requirements, even for heavy users.
- Solid core-designed source cable permits movement in a distal to proximal direction during treatment delivery ensuring accuracy and potentially reducing errors caused by cable bunching.
- Distal 200 mm of the cable is a highly-flexible braided design that facilitates movement through tight catheter turns.

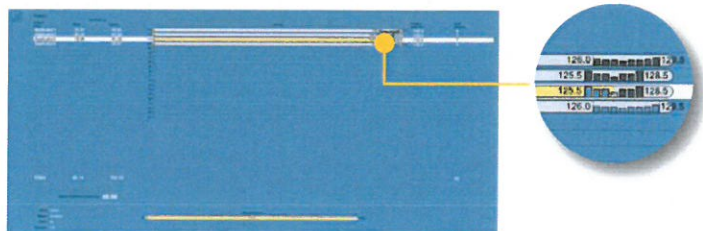


Flexibility in plan delivery

- Connects to up to 24 channels.
- Programmable up to 60 dwell positions per channel and variable step sizes ranging from 1 mm up to 10 mm in 1 mm increments.
- 0.1 second dwell time resolution with 0.0-999.9 seconds variable dwell time range for flexibility and precision in dwell time delivery.
- Source transit speed of up to 60 cm/second.
- Adjustable indexer head enables a level source treatment path from indexer to patient, whether laying down or in a seated position optimizing the path to the treatment site.

iX control software creates intuitive, streamlined, user-friendly experience

- Presents information in a controlled and logical manner with the aim of ensuring no detail is overlooked or misinterpreted.
- Logical screen layout, intuitive icons, and clear graphics provide the pertinent information when and where it is needed.
- Icons at the foot of the screen indicate the system status, source calibration information, and prior to treatment initiation, the status of all critical interlocks.
- Treatment delivery steps include: selecting the patient, confirming the demographic data, selecting the fraction, and checking the treatment parameters. Once reviewed, the treatment report may be printed or stored.
- For added patient safety, a unique treatment code is entered to begin treatment delivery.
- Imports patient data from the treatment planning system using a wizard-style, field-matching process to reduce the risk of selecting the incorrect patient for treatment. When a patient is recognized, users can create a new course or add the treatment to the existing course as a new fraction.
- View dwell times in a bar graph format to identify discrepancies.
- During treatment delivery, observe the radiation status, source position, remaining channel time (in minutes and seconds) and a graphical representation of real-time source position.
- Integration with the BrachyVision treatment planning system and ARIA oncology information system allows for the direct download of treatment plans with the aim of achieving accurate and reliable transfer of plan data, both to and from the database.



Treatment display streamlines workflows and shows pertinent information relating to the treatment in progress. The unique channel display facilitates clear indication of both dwell times and positions.

* HDR, PDR source is 0.5 mm.

** Typical source installation activity may not be 15Ci for regulatory and/or logistic reasons.

Fixed length treatment distance

- Combined length of the applicator and correct source guide tube is always 1300 mm.
- Potentially reduces errors caused by incorrect treatment length entry since the length is always the same.

Unique applicator end test

- Sends the inactive source to the end of the channel and then further extends to ensure that it detects a closed-end catheter.
- Verifies an unobstructed source path and a total channel length with the aim of ensuring uninterrupted treatment delivery and applicator connection integrity.
- Optional end test for intraluminal catheters where having the dummy push against the end is undesirable. Channels that do not perform the applicator end test include the last five channels on a 24-channel device and two channels on the 3/24 model.



Remote text displays at the console area and on the afterloader itself provide information on the source position and status.

Hardware and software safety

- Access to treatment delivery secured through two hardware keys and password protection.
- Mechanical verification of secure connection of catheters/ applicators prior to treatment delivery.
- Inactive source cable extends to the end of the channel to verify that no obstructions or kinks in the guide tubes, applicator or catheter exist.
- Immediate cable retraction occurs when console communication failure is detected.
- Mechanical switch indicates when the cable is in the home position and the source is returned to the safe.
- Automatic detection of catheter/applicator blockages with position reporting.
- Checks performed by internal radiation detector during and after treatment delivery.

Emergency retraction

- Backup battery for emergency source retract.
- Independently powered Geiger Muller radiation detector alerts users if radiation is not detected during treatment or is detected after the source cable has retracted.
- Automatic source retraction on power failure or hardware error.
- Easily operated manual retract handle.

Varian BrachyTherapy Suite

The Varian BrachyTherapy Suite stems from the collaboration between Varian and Siemens successfully pairing imaging and treatment technologies to facilitate in-room brachytherapy procedures. The Varian BrachyTherapy Suite features the Siemens CT sliding gantry (CTSG) with either the VariSource™ or GammaMed^{plus} afterloader and BrachyVision treatment planning. The Siemens CTSG can be configured with a dedicated full featured operating table, facilitating the most complex brachytherapy procedures.

