

MARKERLESS, 3D SURFACE TRACKING

A REVOLUTION IN GATED RADIATION THERAPY

Tracks the 3D surface of a patient in real time without the need to apply external markers or any other physical device to the patient.

gatect®

MARKERLESS SURFACE TRACKING
FOR 4D CT RECONSTRUCTION



GateCT® tracks the 3D surface of a patient during 4DCT data acquisition. The system is synchronised with the CT scanner* and facilitates retrospective 4D CT reconstruction. Real time respiratory tracking enables prospective gated capture of CT data.

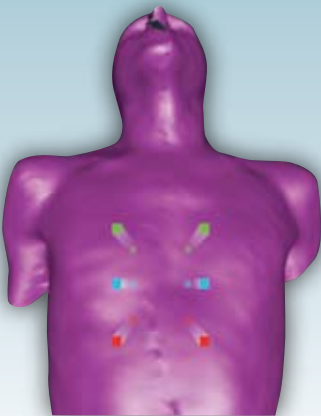
gaterT®

REAL TIME, MARKERLESS,
RESPIRATORY GATING



GateRT® tracks respiratory motion in real time during radiation delivery or diagnostic imaging. The system monitors signals derived from the 3D surface of the patient. Suitable gating thresholds are determined by the user and set within the software. These are used to gate the radiation beam during treatment* or imaging*.

KEY FEATURES



No markers are required

Intuitive and easy to use

3D points or regions may be tracked anywhere on the patient's surface

All tracked data are calibrated precisely to the isocentre

Tracking points may be determined automatically from a previous session

Automatic detection of patient movement

Automatic detection of abnormal breathing

Low tracking latency

Full surface data may be recorded in real time†

† GateCT only

*See GateCT-RT third party interface statement for a list of devices which are compatible with GateCT® and GateRT®.