



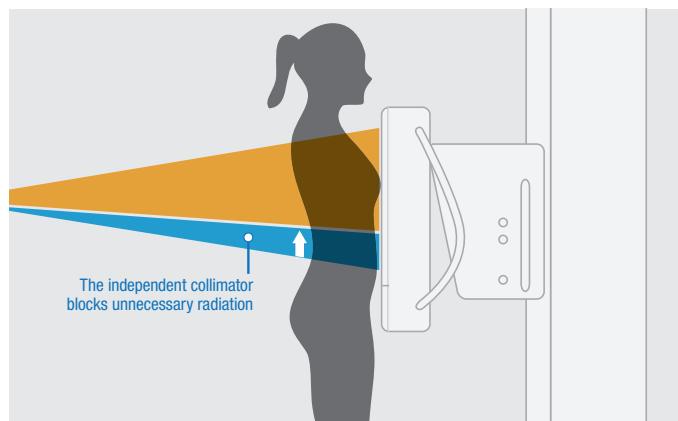
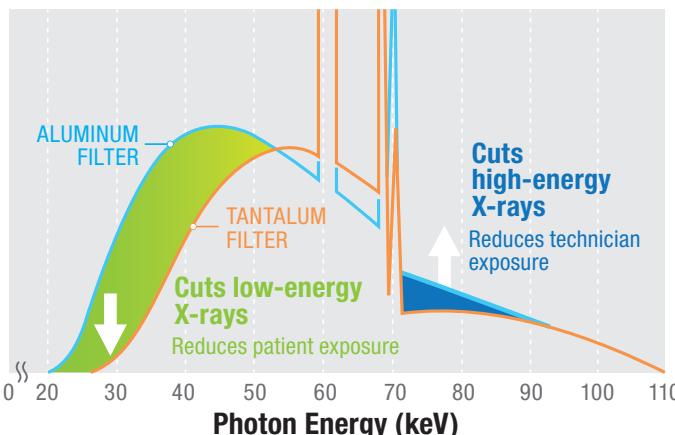
Be Prepared with RexProtect™ Comprehensive Dose Management and Documentation

Managing patient dose has become a priority for regulatory agencies and organizations, many of which will soon require documentation to ensure that radiation is used appropriately, efficiently and effectively.

Designed to help you meet your dose management objectives and the future requirements of imaging safety, RexProtect combines industry-leading dose reduction features with fully integrated documentation tools. Ensuring optimal performance with your RADREX-i system, RexProtect provides the high-quality images physicians need while assuring patients your facility is focused on putting their safety first.

Easy-to-Use Dose Management Tools

Incorporating Toshiba's comprehensive dose management capabilities, RexProtect delivers a wide range of easy-to-use dose management tools that comply with the latest standards and workflow requirements.



Reducing Unnecessary Soft Radiation

Using programmable copper and tantalum beam quality filters helps reduce "soft" radiation to your patient's skin that would not have contributed to a diagnostic image.

Industry-Leading Image Conversion

RADREX-i flat panel detectors use industry-standard Cesium Iodide (CsI) Scintillator technology that has a high Detective Quantum Efficiency (DQE) proven to reduce dose exposure while achieving high-quality diagnostic images.

Achieving Compliance with DICOM RDSR

Implementing dose reporting requires collecting accurate data with minimal effort. To facilitate this, RexProtect capabilities include the DICOM Radiation Dose Structured Report (RDSR), which is in compliance with the IHE Radiation Exposure Monitoring (REM) profile that describes modality storage, reporting and registry submission.

A Better Defense Against Dose Creep

Technologists tend to increase exposure levels to reduce noise – a phenomenon known as "dose creep." To address this, a new method for defining exposure indices was established using international standards*. Toshiba was one of the first to offer Exposure Index/ Deviation Index to help customers better track and compare detector dose levels.

Personalized Collimation

In addition to the traditional symmetric collimation, RADREX-i also uses an independent collimator to help avoid unnecessary exposure while making patients more comfortable. It lets technologists fine-tune X-rays to optimize collimation for imaging the chest or abdomen.

TOSHIBA		RADREX-i											
Leading Innovation >													
USER INFORMATION													
INSTITUTE NAME: TOSHIBA_HOSP													
STATION NAME:	TFD-3000B	SERIAL NUMBER:	A0123456										
REJECTED REPORT		REPEAT/REJECTED REPORT											
Up to Feb. 2011		Up to Feb. 2011											
REASON	TOTAL	%											
Patient Motion	0	0											
Positioning	0	0											
Technique Adjustment	8	13%											
Breathing	1	1%											
Service Test	0	0											
Artifact	1	14%											
Incorrect Patient	0	0											
All Other	0	0											
	7												
REPEAT/REJECTED LIST													
Feb. 2011 REJECT 3													
DATE	OPERATOR NAME	PATIENT ID	ACCESSION NUMBER	STUDY	APC	TEC	X-RAY CONDITIONS	AEC	GRID	EL	DAP	REASON	IMG
02/12/2011 11:32:51	Rejected service name	20110218-01-0002		CHEST2V~ABD1IV	Abdomen/Upright AP		0084kV 030mA 0.032es	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	*** 1 cGym2	Technique Adjustment	
02/13/2011 10:50:07	Rejected service name	20110218-01-0001		CHEST2V~ABD1IV	ChestPA		0124kV 010mA 0.012es	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	*** 0 cGym2	Breathing	
02/14/2011 10:49:52	Rejected service name	20110218-01-0001		CHEST2V~ABD1IV	ChestLAT		0124kV 010mA 0.012es	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	*** 0 cGym2	Artifact	

Improving Quality Assurance with Reject Analysis Software

RADREX-i systems feature a removable grid and low attenuation tabletop to help regulate and optimize X-ray delivery. Reject Analysis Software is another RexProtect tool that helps monitor and manage dose levels to better achieve ALARA (dose "As Low As Reasonably Achievable") for all your patients.

*International Standard IEC 62494-1 (2008) Medical electrical equipment – exposure index of digital X-ray imaging systems – Part 1: definitions and requirements for general radiology. International Electrotechnical Commission, ISBN 2-8318-9944-3.