Make	Primary Use	Model	Energy + Current	Typical Dose Rates Dose Rates	Key Features	Price Quote Base System	Shipping/ Training and Installation	Other Key Options	Initial Warranty Covered	Warranty 13-24 Mo.	Warranty 24-36 Mo.	Warranty 36-48 Mo.	External Radiation Field at max kVp and mA	Weight	Notes
Precision X-ray <sup>1</sup>	cells	Cell RAD	130 kV/ 5 mA	filtered 0.8-1.8-8 Gy/min; unfiltered up to 45 Gy/min	bench top unit-chamber is 14"x12"x12"			full automation \$27K-programmable motorized shelf, programmable adjustable collimator, and programmable automated filter selection; dose measurement system; digital imaging	1 yr				<0.5 mR/hr at 5 sm off external surfaces and <0.1 mR/hr at 10 cm	460 lbs	
RadSource <sup>3</sup>	cells	RS 1800Q	160 kV / 11.25 mA	filtered 8 Gy/min; unfiltered 18 Gy/min	stand alone-self-contained cooling-			data logging capabilities; real time dosimtry \$5.3k	1yr				<0.5 mR/hr at 5 sm off external surfaces and <0.1 mR/hr at 10 cm	1000 lbs	
Precision X-ray <sup>1</sup>	cells	XRAD iR160	160 kV/ 18.75 mA	no filter 5 Gy/min; with filters 1-6 Gy/min	water or air cooled- chamber size 41"X25"X25"- generator external to the cabinet			touchrad dose measurement \$11.5K; automation feactures varied prices;	1 yr				<0.5 mR/hr at 5 sm off external surfaces and <0.1 mR/hr at 10 cm	2395 lbs	
Precision X-ray <sup>1</sup>	cells	XRAD 160XL	160 kV/ 18.75 mA	no filter 22-60 Gy/min with Cu filter 0.75-2 Gy/min	water cooled- pre-wired for option imaging equipment- chamber size 42"X26"X26" -generator within the cabinet and cabinet on wheels			touchrad dose measurement \$11.5K; automation feactures varied prices;	1 yr				<0.5 mR/hr at 5 sm off external surfaces and <0.1 mR/hr at 10 cm	3300 lbs	
Precision X-ray <sup>1</sup>	cells	MultiRad		filtered 0.8-1.8 Gy/min; unfiltered 2-7 Gy/min	stand alone-closed loop water cooled chamber size-23"x16"x17"			full automation \$27K-programmable motorized shelf, programmable adjustable collimator, and programmable automated filter selection; dose measurement system; digital imaging	1 yr				<0.5 mR/hr at 5 sm off external surfaces and <0.1 mR/hr at 10 cm	3300 LBS	
RadSource <sup>3</sup>	cells (manufacturer says for mice too)	RS 2000	160 kV / up to 25 mA /3000 watt or higher available	1.3-3.8 Gy/min animals; cells 5- 10-17 Gy/min unfiltered	stand alone-self-contained cooling- RadPlus specimen holder for dose uniformity-chamber size- 17"x15"x17"			\$1500.00 larger capacity cooling system; integrated ion chamber for real time dosimetry \$5.3K; collimator kit \$3.4k; cages, etc.	1 yr				<0.5 mR/hr at 5 sm off external surfaces and <0.1 mR/hr at 10 cm	1450 lbs	
Kimtron⁵	cells	IC-180		2 beam conditioning filters with the unit	stand alone cabinet, chamber size- 38"x29" x29" x-ray tube case temperature monitoring to protect against overheat. Closed-loop 3500- WA tube-cooler – ultra quiet laboratory version			Modular Radiation Interface unit for dosimtry \$6,250.; Collimator set \$16,750.; additional beam filter set \$9,800.; automated dose control \$26,885.; Specimen platter rotation table \$2,575.; automated vector specimen shelf \$12,925. x-ray tube inversion options: quote	2 years warranty and service included	covered			<0.25 mR/hr R 5 cm	4500 lbs	

Make	Primary Use	Model	Energy + Current	Typical Dose Rates Dose Rates	Key Features	Price Quote Base System	Shipping/ Training and Installation	Other Key Options	Initial Warranty Covered	Warranty 13-24 Mo.	Warranty 24-36 Mo.	Warranty 36-48 Mo.	External Radiation Field at max kVp and mA	Weight	Notes
Precision X-ray <sup>1</sup>	cells, mice, rats	MultiRad	mA / 4000 watts		stand alone-closed loop water cooled chamber size-23"x16"x17"			full automation \$27K-programmable motorized shelf, programmable adjustable collimator, and programmable automated filter selection; dose measurement system; digital imaging	1 yr				<0.5 mR/hr at 5 sm off external surfaces and <0.1 mR/hr at 10 cm	2550 lbs	
RadSource <sup>3</sup>	cells, mice, rats	RS 2000	225 kV / 17.8 mA / 3000 watt or higher available	1.6-6.7 Gy/min animals; cells 5- 10-17 Gy/min unfiltered	stand alone-self-contained cooling- RadPlus specimen holder for dose uniformity-chamber size- 17"x15"x17"			\$1500.00 larger capacity cooling system; integrated ion chamber for real time dosimetry \$5.3K; collimator kit \$3.4k; cages, etc.	1 yr				<0.5 mR/hr at 5 sm off external surfaces and <0.1 mR/hr at 10 cm	1450 lbs	
X-strahl⁴	cells, mice, rats	CIX2	225 kV / 13.3 mA / 3000 watt	closed circuit water cooled; HT generator,	controller with touch screen panel; fully integrated; separate generator and heat exchanger.			video system \$806.; laser positioning \$1.9K; dose measuring system \$19.9K; varous filters nd collimators	1 yr				<0.2 mR/hr at 5 cm	2431 lbs plus generator and cooling equipment	
X-strahl⁴	cells, mice, rats	CIXD	225 kV / 13 mA /3000 watt		controller with touch screen panel; fully integrated; separate generator and heat exchanger.			video system \$806.; laser positioning \$1.9K; dose measuring system \$19.9K; varous filters nd collimators	1 yr				<0.2 mR/hr at 5 cm	4608 lbs plus generator and cooling equipment	
X-strahl⁴	cells, mice, rats	SARRP	225 kV / 13 mA /3000 watt	open field- 439 cGy/min at the surface- collimated beam will range from 50-400 cGy/min at the surface depending on the collimator being used	Combines CT imaging system with micro irradiation system			rotational gentry, various cooling options; isocenter laser, beam geometry cameras, CCTV, dose calculator; jigs and alignment tools, treatment planning software, phantoms, cages	1yr				<0.2 mR/hr at 5 cm	6209 lbs	
Kimtron⁵	cells, mice, rats	IC-250	225 keV/5000 watts Polaris HV generator	>7.5 Gy/min at 30 cm with 2mm Al filter; unfiltered beam at 30 cm = >60 Gy/min	stand alone cabinet, chamber size- 38"x29"x29" x-ray tube case temperature monitoring to protect against overheat. Oil to air or oil or to building cooling water options for heat exchange.			Modular Radiation Interface unit for dosimtry \$6,250.; Collimator set \$16,750.; additional beam filter set \$9,800.; automated dose control \$26,885.; Specimen platter rotation table \$2,575.; automated vector specimen shelf \$12,925. x-ray tube inversion options: quote	2 years warranty and service included	covered			<0.25 mR/hr R 5 cm	4500 lbs	

Make	Primary Use	Model	Energy + Current	Typical Dose Rates Dose Rates	Key Features	Price Quote Base System	Shipping/ Training and Installation	Other Key Options	Initial Warranty Covered	Warranty 13-24 Mo.	Warranty 24-36 Mo.	Warranty 36-48 Mo.	External Radiation Field at max kVp and mA	Weight	Notes
Precision X-ray <sup>1</sup>	cells, mice, rats, rabbits, etc.	XRAD SmART	225 kV/3000 watt (or 4500 watt available)	Small Animal Radiation therapy System- unfiltered 6-11 Gy/min; filtered 1-5 Gy/min	Smart Pilot software and workstation; specimen positioning stage; rotational gantry; View camera, laser positoning;			Micro CT imaging option \$49.5K; OPTIMAX Luminescense imaging \$175K; collimation and treatment software; automated collomators & dosimetry options- see quote	1yr				<0.5 mR/hr at 5 sm off external surfaces and <0.1 mR/hr at 10 cm	4960 lbs	
Precision X-ray <sup>1</sup>	cells, mice, rats	225 series-XL quoted (iR, HP, XLD also available)	225 kV / 13.3 mA or 3000 watt (4500 watt is available)	unfiltered bean >12 Gy/min ; filtered beam 1-6.4 Gy/min	programmable exposure setings chamber size 14.75"x15"x22" standard			integrated dose measurement \$11.5K; hi power 4500 watt tube \$5.9K; imaging x-ray system OPTI Max \$79.5K	1yr				<0.5 mR/hr at 5 sm off external surfaces and <0.1 mR/hr at 10 cm	3000 lbs	
Precision X-ray <sup>1</sup>	cells, mice, rats, rabbits, etc.	XRAD 320	320 kV/ 3000 watt or 4500 watt options	no filter >5 Gy/min with Cu filter 1-3 Gy/min	oil cooled- video monitoring of chamber, beam conditioning filters, pre- wired for option imaging equipment- chamber size- 41"x30"x35"			dose measurement \$11.5K; movable shelfs \$4.7K, variable collimator \$16K, env. Chamber \$15K, x-ray imaging \$69.5K; laser cross hairs, pie cages, etc	1 yr				<0.5 mR/hr at 5 sm off external surfaces and <0.1 mR/hr at 10 cm	5020 lbs	
Precision X-ray <sup>1</sup>	cells, mice, rats, rabbits, etc	MultiRad 350 (used to be Faxitron)	350 kV / 11.4 mA / 4000 watt	unfiltered up to 140 Gy/min depending on distance; filtered 16.5-40 Gy/min depending distance and filter type- common distances results in 1- 3 Gy/min	stand alone-closed loop heat exchanger- chamber size-23"x16"x17"			full automation \$27K-programmable motorized shelf, programmable adjustable collimator, and programmable automated filter selection; dose measurement system; digital imaging	1 yr				<0.5 mR/hr at 5 sm off external surfaces and <0.1 mR/hr at 10 cm	3470 lbs	
Kimtron <sup>5</sup>	cells, mice, rats, rabbits, etc	IC-360	350 keV/5000 watts Polaris HV generator	2 beam conditioning filters - typical filtered dose rates 1-3 Gy/minute at 50 cm filtered; unfiltered beam >15 gray/min at 50 cm	stand alone cabinet, chamber size-38"x29"x29" x-ray tube case temperature monitoring to protect against overheat. Oil to air or oil or to building cooling water options for heat exchange.			Modular Radiation Interface unit for dosimtry \$6,250.; Collimator set \$16,750.; additional beam filter set \$9,800.; automated dose control \$26,885.; Specimen platter rotation table \$2,575.; automated vector specimen shelf \$12,925. x-ray tube inversion options: quote	2 years warranty and service included	covered			<0.25 mR/hr R 5 cm	4500 lbs	
X-strahl <sup>4</sup>	cells, mice, rats, rabbits, etc.	CIX3	320 kV / 10 mA / 3200 watt	oil cooled; 0.6-3.3 G/min filtered;	controller with touch screen panel; fully integrated; separate generator and heat exchanger.; chamber size: 23.4"x 25.6"x25.2"			video system \$806.; laser positioning \$1.9K; dose measuring system \$19.9K; flattening filters \$5.5k; collimators / turntable	1 yr				<0.2 mR/hr at 5 cm	3300 lbs plus generator and cooling equipment	

Make	Primary Use	Model	Energy + Current	Typical Dose Rates Dose Rates	Key Features	Price Quote Base System	Shipping/ Training and Installation	Other Key Options	Initial Warranty Covered	Warranty 13-24 Mo.	Warranty 24-36 Mo.	Warranty 36-48 Mo.	External Radiation Field at max kVp and mA	Weight	Notes
					1. PRECISION X-RAY- 15 COMMERCE DRIVE, N E-MAIL: SALES@PXINC.COM Mr. Bill McLaugh PHONE: 203-484-2011 WEBSITE: HTTP://WWW.PXINC.COM/ Z. FAXITRON BIOPTICS has merged with Precision	lin <wmclaughlin@px< td=""><td>inc.com&gt;</td><td></td><td>ided</td><td></td><td></td><td></td><td></td><td></td><td></td></wmclaughlin@px<>	inc.com>		ided						
					GENERAL INQUIRIES: +1.520.399.8180 Mr. Ro  3. RAD SOURCE TECHNOLOGIES 480 BROGDO E-MAIL: RADAMS@RADSOURCE.COM Mr. Rici PHONE: 815-477-1291	N RD. SUITE 500 SUW									
					WEBSITE: HTTP://WWW.RADSOURCE.COM/  4. XSTRAHL INC. SUITE 300, 480 BROGDON RE t: (678) 765-8970 Ms. Linda Alfred LindaAlfred@xstrahl.com www.Xstrahl.com	., SUWANEE, GA 3002	14								
					5. KIMTRON, Inc 115 Hurley Road, Bldg. # 6 O pcawley@kimtron.com * www.kimtron.com f		) 262-3361 * Fax (203) 262	-3373 * e-mail							